

>gene_1|GeneMark.hmm|56_aa|+|2|172 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VNIFAFSMLFILPLIKTGIYFIVLYLYPPKNKHFSSLPLKPEHIRSSFCQQLDKKN

>gene_2|GeneMark.hmm|82_aa|+|231|479 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKKWQLQNIKAKLIALVKQASRGKPEQTTAKERAIEVILPAKRYVDLTSSKISLVEFLRN
SPLYGAELDLERNQTPCRDIEL

>gene_3|GeneMark.hmm|98_aa|+|482|778 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLQSRANTQKLLHDIKNNGMPKIALKVKAGARQNSINGIIEIDNKPYLKLSIKSSPEKGGK
ANKMIIDFLAKEWGMRKSDLTIISGKTSQYKILHIKEP

>gene_4|GeneMark.hmm|196_aa|-|780|1370 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTDFSIEDTHPGKIIAGVDEVGRGPLAGPVVTAAVIVDRAVVIEGKDSKLSKKKREEL
FEKISLHYKCSVGIISPAEIDRINILEATKKACQMAVRSLEIEPDIVLVDGNMKSFSDERF
CSIIKGGDKSVSIAAASIIAKVTRDRMMEELGVFPEYKWAQNSGYGTDKHDIDAIKHGA
TPHRRSFRVRGFNYS

>gene_5|GeneMark.hmm|242_aa|-|1363|2091 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKFSLHSRIYSTDSIAIGQTITIEGEDFHLYKSVIRLKLKLGATFRMFNENDGEFMLKITQI
GRSSIIANVESLLRLPALQKDLTLAICVIKQDRMIEAIKAAVQIGVTRIVPVISERVQHR
QNKRDKILKSIIQSTEQSERFKPAEFTEEITLKELCAMDDIEQIIWANETESGVTIKNI
KQIKGRPCVLIGCEGGFSDAEIQMLKSHDHVQSVSLGHSVLRAEIAAIYALSCTSMMRGV
ND

>gene_6|GeneMark.hmm|48_aa|+|2113|2259 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLKKDKSDNTPTNESSKNTDEEFGGQNGPDPTRYGDWEKNGRVSDF

>gene_7|GeneMark.hmm|60_aa|-|2350|2532 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MGVSLVQLLVILLIILLFFGAGKLPRVMSELGKGLKSKSMNEDDSKDDSNDDNKNKKG

>gene_8|GeneMark.hmm|431_aa|+|2767|4062 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTSKQTPAEKELFMTMAERKIYNKWRLRILISILGYGTYYLCRLNFSIIMPAYIEEFSY
SKTQLGWVITITSIVYGVGKVFNGYFSDKSNARYFMPAGLILSAITFILGFTNSLVFLG
IFLIFNYWFQSMGWPPAARMMLTHWFAPQELGTKWALGAASHQIGGALTIFCGYLVANFG
WRYAFFIPGIIAFIVGVILFSALRDSPELGLPPVEAYKGDDEFKEDTSENHLGSMEIFL
KVFANRNIWYICFANMCVYFIRSGIVVWAPLFLIEFKDFSLVDSGWQVAAYEFAGLPGGF
MAGWISDKLFGGKRGFVIMFMSLLALALYTFWKLPAEHIYLSASSLACIGFFLSGPQIL
VGLASADFASKKAVGTANGWVGTGVLGASLSGIGVGLLTQYYGWDAAFMAFIGAAILGA
VFFSLTLKNRA

>gene_9|GeneMark.hmm|178_aa|+|4300|4836 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKTSAKQTGFILLGLALIAMIFTLTQMSSATAAKKNGKKFGDWVWSCSPANKKTKTPAVC
VLTQQINMSKDDKQQTVALFQIGYFGKKDLKLVQTLPGFISIEAGTSIISSKKLIAPGK
YTTCLASGCQAVASISKKDLKMTSSENAVAFMSLNGKQITFPISMKGIERGLKYIK

>gene_10|GeneMark.hmm|274_aa|+|5125|5949 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MQRIFTALFVILTGNVSLASKPEPWQLYLQEAATPVMEELTAFHDFMMIIITGVTLFVFF
LIIYVVLRFNAKANPVPKAFSSNLTVEIAWTLIPVILIIIAVPSFRILKMAEHTPDSDV
TVKVVGSQWFWTYSYPDHGIEFDSYMIQDEDLLPGQLRLLEVDNRIVPQGKVVKFLITA
ADVIHSAVPALGIKLDVPGRTNETWAKIDKIGVYGGQCSELCGVNHGFMPIAVEVVSQ
KDYDIWVESAKVKFASHNSIKPDAIKMAANIKSE

>gene_11|GeneMark.hmm|524_aa|+|5961|7535 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTDHAHHTQTGWRRWLLSTNHNKDIGTMYITLAVVGGGLVGGFLSVLFRMQLAEPGSNFLGG
DHQFFNVLITAHALIMVFFMIMPVLFGGFGNWFVPLLIGAPDMAFPRMNNISFWLLVPAF
LLLILSAMVDGGVGTGWTLYPPLSGLLGHPGAADVIAIFSLHLAGISSILGALNMITTIL
NMRAPGMTLLKMPLFVWSILVTAALLILVLPVLAGAITMLLTDRLNGTHFFTPEGGGDPV
LFQHLFWFFGHPEVYVIVLPGFGIVSQIISTFSRKPIFGYGAMVASMVIIGFLGILVWAH
HMFTVGLSYTALVYFTAATMIIAVPTGIKIFSWIATMWGGSITFETPMLFAIGFIVIFTF
GGVTGVVLANSALGRIMHDTYIVAHFHYTMSLGALFTAFAGFYWFGKMSGKVYPEWMG
KMHFTLTFIGVNLTFPPQHFLGLAGMPRRIPDYPDAFAGWNYVSSIGSYISYFAALFFVF
IIFYTLKYGKKCPPNQWGEGATTLEWSVDSPPHHTFETPPTVK

>gene_12|GeneMark.hmm|313_aa|+|7535|8476 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTKSTTGHTNSEMGASVGDYFSLMKPRVMSLVVFTAFCLWLAPGDIHPLIAFVAILCIT
LGAGASAAINMWYDRDIDAIMTRTQKRPIITGAILPDEALSFGIMSGFMSVFLMALCVNL
VASALLALTILYIFIYTIWLKRTSIQNVVIGGASGALPPMIGWAAVTGDVSLESFTLFA
IIFIWTPPHSWALALFRLQDYRNCAVPMMPVIKGESYTKKQILLYSILMIFVVMMPYFLG
MANILYLGISLILGAGFLYVAALFQTNENQETETHGAGTQGAETQGAKALFWYSIFYLF
TIFLSLLFLKLPT

>gene_13|GeneMark.hmm|448_aa|+|8581|9927 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKKKIIALVGRPNVGKSTLFNRLSTRKKAIVHDRPGVTRDRKYSDAKLGPMFTVVDTPG
LEEAEKGKLEHRMMQTMVAIAEADLVCLVIDNEAGITPADKFFAEFIRKYSKKQILIAN
KSERKFNHDSEYKIGFGTPVPVSAEHGQGLAYLYEIAIEQIDTEDGEEISDPMSGDCLQ
IVISGRPNAGKSTFVNAIVGDERMLTGPEAGLTRESVEIAWEYKGQRVKLIDTAGLRKRA
NVKQSLEKLSTGDAIGSIKANTVILMIDATIALEHQDLTIANYVIDQGRSLVIAINKWD
LIRKKREYEEFEYKLQKYLQVQGVVVYLSSTDNVKTLEVLDKCLDIYKLWNKKISTS
KLNDWLSFTLEKHPLPIQKLGRRVRIKYITQTKTRPPTFKLFTSDPGSITEAYRKYLVN
SLRNDFDLPGVPIRLQFIKSDNPNYAKKK

>gene_14|GeneMark.hmm|220_aa|+|9927|10589 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKSVELLRSDTENDLLMLRLQESGYETLSCNLIKYEYELQKVDEAGFKRFKQIIVTSSFAAN
NAPPAHSGVSAWAVGKKSALASKGYEIRFVAPSAESLKDQFVEDTNKPTLYLSSNYI
TIDMPFFVTRCIFYKVITYQDSLTEQQIARYKNGVDYILLYSENSAKTFLKLVKENLLHC
LENSTIITISSKISKVLADYFKTSVVCNGTDLILEYLKSK

>gene_15|GeneMark.hmm|342_aa|+|10586|11614 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTQPKNTKNKKKLDENVPAKNSPGGQAKKSEEVLEAEVLGEKALEVELLEEDSAQKLEP
RKINYFKKFLAATILLSWVFLKQLYPDFLEHFEDEKAVIITEQPQPESELVKDALNS
SYDPGAEPPLSFAPNNLIEDINEIILPEEEADEENPYEQLVETQCRLHVKLATTKLRDR
LLNNLDDYRLYLANMNQLVIKFKSDKRYEFELKKSARPLPSYIRDIVSMLELYDRQLAA
NIAKAKANLDGKAGRDGRAALNDSGSGVAEPDLGKDTDLGEMLGLEKKIDLGILSKFIKI
EKISALSEEQKNLKRREIEGQLRVLVQYIYSSSELQDKFINRVR

>gene_16|GeneMark.hmm|355_aa|+|11615|12682 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MIRLLILCVIFVLFYIGIGAMEHYDSALKFTALGYHIETTLFAFTAFAFVIIQLITMICKL
LVYLMFNLPQIIRNEWQRSSIQKLNRLKLLNTLAELLMGNKKKSLGLASKLISSLNDKNKN
VIHLILAELSDNPGKREEYLRNLTTEKHYSIYALKRLAEISYKNMHYKQAEYALKAFNE
DDTDELMLSLIRIYASLKTWQRLVFFVSKLQRADTKLLQKHSGEIAEYLYAAKDYVQE
ESDDEALNYLESALELNPCHMPALNLFKLVANMKNSSSALKILKSFAAATPSFELAKMY
ANSAHSSSDVVYGTLANLATPAKYPELFLALATYLNLPDQIVKIKEASLSSYAPV

>gene_17|GeneMark.hmm|354_aa|+|12669|13733 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MHPSDDRNIKLDGRQLELLKIFEQIAGEIKPNNFASRFKRLFSAGGHIRGIYLGHSVG
RGKTLMLNMFYDQISLPKEMIHFKFMQDVHTKMHQLQSASTNRVVDLAADIASRAQVI
CMDEFEIKDISDAMIIMRLFYKYLAKKNVFIFLTNTLPDNLKYDGLQRESFLPFISMLKR
HFQILHLDTEKDYRYNAVSHFENRVLYPASRETAQEIQGIKEKLSEQAVFSKTDLSVFR
DISFNQAHQNILFTNFKELFERDLGYVDYVNICENFEIIVLESVRKIEEDEQDIITRFIN
FIDNAYFCRILLFIEIKCKPEEIYPRGRKTAEFERTISRLNEMNTKNYLQREIS

>gene_18|GeneMark.hmm|270_aa|+|13730|14542 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNFDPKPKFITFEGGEGSGKSTQSKMLHEYLRRHIKSIHTREVGGTPEAEQIRNLLVYSE
LLPVSELMLVMAARYEHINNVIIIPALQDGNWVICDRFVDSTACYQSGESGLTIDDIYELH
DQLMKANYKNSAGADGASAHSISAHRTGPYNTSAHGTSPTYSTSARVFDTDISNFQNTSS
QNSSPSPENMGIMPDMTFFMDIPPQIGLRRAGARGDVNKFEGKNIDFHMKIYERFKLAT
EHEDRIISPCENLSIDGIHKEVLNKIFKV

>gene_19|GeneMark.hmm|675_aa|+|14543|16570 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VMYKYSINIFLLFASLCITINSSEAKIMKEDQLIPREVFVGNPDRIAARLSNDGQNIIFL
APKDGVLNVVWVAPGGQISEARVVTDEKRGIRSYFWAKDNAHIIYAQDKKGDENWRLYSV
NINTLEQKDLTPDGVRSVLKLSYKFPSQMLIQLNDRVPEYFDIYKVDINTGARELYE

NTGQYASFTADDDFNIRAGYKMLPSGEGEYILFENGNEAPKLFQKIAIEDMLTTSTLHI
SHDGTKLFMINSSGRNTSSLVEVDLATHASKVLHTDSKADVSDYLINTKTKMVQAAATNY
MRKEWTIFEPSIASDLEHLKTIEDADVEITSRTLEDDQWIVVFLKSDGPYKYYSYNRTTK
EASFLFVSNKQEGQNFAMHPVKITSRDGLDLISYLTVPRWLDNGSGIPSKPVPLVLNV
HGGPNARDSWGFSPEDQWLANRGYAVLNVNYRGSTGFGKAFINAGDGEWARKMQDDLADA
VNWAVDNNITKRDKVIMGGSYGGYAALVGMSTPDMYVAGIDIVGPSNLETLLKSVPPY
WKPQIAHLVKIIGASPETEGRKFLKERSPLTYAHQIKKPLMIVQGANDPRVKQAESDQI
VAEMKKHAIPAMYLLYPDEGHGLARPENRLSMYAYAEMFLANAAGGRVTPHDSSEFPDSSV
EMREGGDINWTREKN

>gene_20|GeneMark.hmm|116_aa|+|16657|17007 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSDSYVDYILDLLSPYGNITAKRMFGGGHGIYKDSVIIALIINEELYFKADGTNKEQYEKL
GSSPFIYEAKGKPVVISYWQVPLEILEDTSKLPVWMEQSFEISLKILQEKNRKKKL

>gene_21|GeneMark.hmm|65_aa|+|17138|17335 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MASQTLFIGPRGQITLPKKIRNLFKSDAVVLELVDNEHVMISPVDPVGGAIFFNYAKKNRF
NFRRS

>gene_22|GeneMark.hmm|136_aa|+|17386|17796 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKKYIADTNFILRYLLADNQESYHQTKIIFEQARIGKQCQIEIEQSVFAEVIFVLSSFYEV
PRLEIVKILKSLLSYKGIKVDSDIYSVALDVYLEHNIHIVDSIIAVKTLTSGDELLTFDK
KLQNVILKKLNSENNK

>gene_23|GeneMark.hmm|134_aa|-|17903|18307 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MPTIDKKKNVILFIDDEKICHTLVELIIPNFTDFKLVGAFDGEAIELAARYANSLCLVI
SDVILPDMTGYDIFKTLKQNDKFAKLPFIFQTGLGSQEEELKKNINEGVQILYKPYNQTD
LLAIDKACPKEER

>gene_24|GeneMark.hmm|246_aa|-|18322|19062 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSKNSDSSVLEERDSSSNMDEVSFLLKIGHELKTPIHGIGGITKFLNSNWESLDDKTRRE
CIVKISEASDSLNDLLDSSLNRTDGNITIELSLKSNLIEVTKLATSECRNFYVQEKDIK
ISFKTSLDEFFITFDQLWYQRLINLICNAINYSKGEIVVEVAKRAIDGEDKCIISVKD
EGFGIPESELKSIFEPFNRSSRKTTELKKGIGLGLAICREIVDAHKGITIRAVNNEGAGATI
EILSI

>gene_25|GeneMark.hmm|296_aa|+|19328|20218 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNNTRIIIFTFILFISFARGDIHQASSVLEINNRLLELLEDNNSKKTLLIIPVQNFLK
RTNPYFNIEDRNLRPLIERVLKVKLSRETYFEELLLTEYENKPADPFKDFIHNLQNKK
LPLIAITDSSSGGFNKIPFLEWISNRLLKEGIDISKSPLGEKQIIFNKNFKQTKGSYPT
FYRGLLSSNMHGADNMYEHILAFMLIEKWKWMPDTIYIIITEENTIKLLQQQFKHIDPDV
RVIGFHYLPPQNKLMNKALSNIQKFMQFWEGVITKLNNIKLNKHSKAKGAKDPYEQ

>gene_26|GeneMark.hmm|283_aa|+|20208|21059 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNNKFTNNTLILFWVTSLSANIANAQLIKTYSVNSSSMAQIETWADKDTIIFITLDN
TLTIPNSLMFSYNSEANRTFIQNLASLGKQMPAYNKIIATWYQQRKIKLVEPQWAGLITR
LKAKGATVYALCSMPIELVNIEEKRYKELKDLGIILTSTVNQKEKLQIGKNSSWPARFYK
GIIFTAEGGPSIALMEFLKITNISVKKMAIIGNIEYKLKELEQILRTFDMEYNYLILGA
RELATNPDPPELIKFFQQQLVNNGVWVWEDAAALRARAARLNPAQ

>gene_27|GeneMark.hmm|336_aa|+|21099|22109 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLQNYLQKYFTKAFYPTPHRNWYKEKGYVGADSSLQFADFLTTQKKNKTSKFHEEFKSLD
ITRQYVNSGEHKLDSVILTPYKSISRNPGEGLYFVMFQGRGEYYSRFRDMALQAKETG
ASVVGFNPKGFHASSGKTQKLYDIVEDGIAIIGFLEKGIIPSNRIIMQGNLSGAGVQEMV
SEHYAHVKNIRFRQINSNSFKNLASVLAYHYKAPILERVFSVILKYAGWEISVGAEFYKT
GPYRCLLRKGDRTIGGFAEYNAMVNHQEDYENCSDYRETNKWLNEHNQLIYGRSKKD
PHALSLHHFAIKGEGKRSVYYLINRYLAASNTIVVI

>gene_28|GeneMark.hmm|161_aa|-|22256|22741 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MAKESEITNESNIVNIAGKSNLAGRNAAIMFHKPYMETAFYEKQHLETECAQLGVTIINA
IYNEDKDAFVAYKLLPYIQQENDNSKPLLLFANAKNLVLPENRMSKIILSVLIDLKEIE
LYLYNQGFNMKNGKSELALEPCTAKGILHIKQPDPSLGVFI

>gene_29|GeneMark.hmm|84_aa|-|22959|23213 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
METEEAPQKTRLKNSPHRVRYPNGIARGGALLLYNNHRINLYSTILFKLLNTLAILVDSA
TGMTKSVILEFESFFASGYLSAIK

>gene_30|GeneMark.hmm|851_aa|-|23312|25867 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MVGKMLNNSMRIMLLTTLFFNTHAAIAAPSDPEGTSTSEASDSEGSASSLLNSSDNDSD
DTASVHSEASDLGANYTLIDKLTFTTDRFGFQEENFADDYDPIQEISVGEGQSLSIEGN
IGDNYGDDYEAQKEHYTQILEENEDFKEAIELDEVKLTGIEEITGTGNVVFTGNVNCW
LGNEDEYLESIETQGDITIFIKAIYAKHLTFQYETMMFSRHINTEHITLNQAELTFKQGAD
RAIKITGVGTVIYHKGSDLGAITLTVDEGGYSGELVLMATEDNTEIYEMTANITARLEQD
ENATLNNGFELNNLDAENKSTASPAVSEHDNDSTDVDDEHLSSSSSESDDDDVAEVP
IAIPAAPVQEAKIDNAPAPARHSSPSSEVSDNRPPSSEVSDNRSPSTSNEESLPQIIKNC
LNYSNKDDPAQNKTITTETPEEQTKAANEAIYQVAGREISNIDKNIKTEDIVQFVAKV
TTQQARDLSPNTQKVIYIAEDDKTAEVRKKEHTATAHFTKAQKEASQLVVQSVISETTA
RIANISLNSQPNFISNLASNITGTAAGDSHKIEKGVWISGMLAKNTQKENKNHSAYNAKI
YGGTIGADAQVTEHTLIGAFYSNITSAFTFKGAAGSKLDAKSHVFGIYGDTAFTDNLSA
QMILAYGQTTIDNRRKDGTNTAISKFKNVYSGDLNLTYNKYLANNVSIPTMGIRYSYF
ADEAYKESKAGLNNLSYGKKSSSNLEAMFGAKLIWQKQVLSNLILVPSIKASVHQVLSEQ
SSKVKTTLAWGEEYFSSDIVKKDKKADKTRFNIGAGLLAKIDNVDLSMDYSLSIRKQYTG
HQGSVKIRINF

>gene_31|GeneMark.hmm|66_aa|-|26034|26234 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLNLLFNRRIEALMIFIFCRNNELNRYISKAKKHEGSSLNELFIYKLANFYRHHANNYYT
LIVVLN

>gene_32|GeneMark.hmm|884_aa|+|26442|29096 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LKEVFMETTTNLEDFLSAPETYNVLDLSNQNITPAEFIRLFTALKDTNNSTLTSLNCSGN
KLSSAAIMILADWLGGQNTALNSLNSMSRCYLGSKAITTVVNALEGGGSVKELILCTNAIG
DETASLITETLRCESLTVLDLEGNQISEQGSAAALCGKLAKLGDNLKILNQLGEQGVIDI
FPVQVEAAEIKGAEVDVLAKMAEVYEGVQGNSELCLVIGNTGAGKSTFVNYLAGNRLQV
TQDPESKLLVDRHPEDTPLAGITINHTSASGTKIPYQCSVNIDEGEAEPINITIWDCPG
NNPSSDANIEGTISGFTFDRLFEATKQVKLLLVPEFDITHGRGNFVNAIARLTEEFSP
RVLDAVSLVTRVTEQRNEANIKYLVREVFNENDTLRGFADDHPIKGVIKSLLQDSSTIH
IFPKFAEPAEEIQPDMELIASIHASGDYLHEPNAQDVRVSEGVKGYSENILRELVYNNLN
MMLHVISQALVNPTDCRSSDPEKNAFLRNYESIKPLVPESYKHFAPMLPLEENQFLTPNP
DHPGAAEERHFTDLQSELKDILWQFKNGDFLSLREGMNAIASVLSSEFEKSIDVANRDT
KDVLLQYAYALHQQLNCFEISGMGAEPFLAAEPLALQQYMTQCYNIGICRNLEAGVRALE
IEPDGGSQAYYDQAISYLTKYSDCEPVIAQAYMFKAQLEESENANVAVGYAQAIDIDAA
PADACEKLGDLLFKSGDLPNAVKAYSALHYVSKIDLFCFATLQAQPTSTENAALMSIANY
RSQWKEGEIVYLNLTNANHSSEFFAQVKGAVTLHMRDShLCEVLNSGKFYNFAEVNEEFR
ASLLLAYPDEVAPEPGVEAFLVPVELEDVPGIIGAPAAGEEEVA

>gene_33|GeneMark.hmm|41_aa|+|29303|29428 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSREGVPYIVLPISAGQVFSILVKIDDAKLLRVNLSGVRVS

>gene_34|GeneMark.hmm|207_aa|+|29577|30200 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSRGIFATTKGSVSADQVRATIEKFSQGKEHYIGGFHEALRSCFDSKNIDIITSAFRNEK
TVSVQCGSEVWLLEMAPPPPLYPPGSENNPIASHVTMPALESLIANFARNSTLQALGF EK
AMEDYFNVS DLQNIISILLNGNDVYIICARGRILQLTEENLSPPRHLLPEPVAVEELTDS
PDSPGSPDFSDFS SAKYLGGESDFVF

>gene_35|GeneMark.hmm|100_aa|+|30254|30556 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LFEGFTSRGNYYGSEFIENMQSYFEKEDLEKLASILWDLKEKAYVMCSCGEVLCLGADIV
SLPALSPLLAGDAEEMEEHLNTD GKPD SLVAGDGVA AFVI

>gene_36|GeneMark.hmm|67_aa|-|30734|30937 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MAVQISVHGGNGEKAIRD LKRKMQREL VFR RMKMSRFYEP P SAKRVREKQEAERRIRKNN
RRRRLES

>gene_37|GeneMark.hmm|236_aa|+|30967|31677 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLKYPLIIVSLHVKKKGRV GAKMTDISRKQAERRLKFFAALAKLLATNMWSEALLGKV

EESCAFDKGYNYALFPEGVSQIAVSFESWQDEQMLSALSKEKPAKIRECIARALEIRIM
DVVHKNVAINNSGFFMMPQNILEGKAAFRCTDLIWKYAGDQSADFNYTKRGLLSVYK
SASAFYFADNSKDHEKTKIFIKNALDNIVNIASLSRIKLPKIPKMEDLPILRLFS

>gene_38|GeneMark.hmm|1056_aa|+|31739|34909 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTEQKYYPEAKSTVSFPEIENEILKYWKENKIFQKSIDNRESVIDGKKNEFVFDGPPFA
NGLPHYGHLLTGFVKDAYARYQTTKGGKVERRFGWDCHGLPAEMGAEKELGFSGRIAIAE
YGVDFKNDHCRSSVMKYSKTWEQYVDRQARWVDFEKSYSKTMDFMMSVWLFKELYKKG
LVYESMRVMPYSWACETPLSNFETRLDNSYRERADKAVTVSFELAQKPAGAPDGCSEYRI
LAWTTTPWTLPSNLALAVGGEMEYACVVKDDVCYIIASFVNSYAKELGVSEGDEFVLEK
GSDLAGLSYKPLFDYFKDNAKSFEIFTAEFVVEGDGTGIVHMAPGFGEDDQVVCEEKGIK
LVCPVDNAGKFTSEVTFDFAGMQVFDANDKIIHLKEQGNWLKTEQYIHNYPHCWRTDTPL
IYKAVPSWYIKVSQFKDRMVLELNQEINWIPGNIKDGMFQKWLLENARDWSISRNRFWGTPI
PIWRSDSAYPRIDVYGSIEELEKDFGVKVEDLHKPFIDDLTRPNPDDPTGKSTMRRVGD
VFDCWFESGSMPIYGQAHPFENKEWFEHFPADFIVEYSAQTRGWFYTLMLVSTALFDRP
PFLNCICHGVILDSTGQKLSKRLNNYADPLELFEKYGADATRATMLSRGVVKGQELMIDK
EGKMFVDTLRLFIKPIWNSFHFFCLYANSDGIAEQSFESDNVLDRIYLSKLLKATSAIE
NNMDAFDSQGAYGAISDFFEVLNNWYIRRSRFRWKAEKDQDKISAYNTLYTCLETMSRA
MSSLVPLISEHIYLAITEKSESNMSVHLTDFPVLDEIQIDEGLVETMDRVLDICSTALFI
RNSENIRVRQPLASLKIIVDNSSVFKDFEDLIKDEINVKSIEYNSDLANYADKKLSIKFP
VLGARLPKMKIEIVASKQGWEDGTSLTVAGEELLSGEYSLVLQPKKECGGKSLSDNQ
GMIVLDLEITKELADEGVARDIIRLVQQARKDAEFDVSDRIKLELKSDFDLSGILAVHAG
FISEQTLSELAYGISEDYKVETSLQDKNLEIRLQRL

>gene_39|GeneMark.hmm|448_aa|+|35179|36525 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKKIFLLPLFLICVPTMSSAITLEQALVSGYNHDEVLKINKTDFLQEIIEFPRALAEFMP
RITAGIDFSHTRRKSKNSSLEHKGSHHTQSVTLNQPIFNGGASLAKLKAARFAFRASMGK
YYAAEQDQILKEIDAYLSCAATREKYAISKMSVKSNTQLEAMKEKFKLGESTETEEVAAS
EEGLATAESNQSIAYANYEASRAEFFRIFGVEAAGIKMPALSEGLPKSLEEVLEALAKN
YSIDQARYSSQASKSEYASKGVLLPSVLSVRGERIKFKKQDPARNRSNNNSVTSTISV
KVPILEKGGFEYSEVRRRAKHQTRKTIIALNNTIKTIKSQGRASWSFLSANKLRIKSAKA
VKAAEIAYDGVQQEEMLGSKTIIDVLRTEGRLNDARSNLVEAKKALVLAGYRIQVLMGKL
TAKSMNLKVEHFDPEAEFKRIKFRIIGF

>gene_40|GeneMark.hmm|129_aa|+|36528|36917 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VLQEIAKEGITKEGTASGEGEASLGEVLKSIRGAIDNPSPNLSFESDDDFYGDDEGYGVL
ELTNLVSDADLARTPHKNTGNAQHIGQELLEQTLEKVMRPLVKEWLQKHLPRVVEKVVTQ
ETRRVMPKS

>gene_41|GeneMark.hmm|851_aa|+|36955|39510 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MARNLLLFLSILLSSWSYSLAGNKPPLMGTPFMGTPLTEGTLEGVPLAEGALEGRALVA
SLLTTPPVQVADPIPMTHPVAPAPFAGTLLTGILLADASPNGVIFDGMVVEKDAIKEDNLK
EANLEKGSVKKASPLQDPGASGELAVASIEGAGGEEAALPSMPESSIAEKSESFLAKGEEK

SFFAKIKSFFGFDDDEKTQQPESKSAQGAQALRAGSAGGRGAESLFAPLEPGMDDGDAG
LVTSQPVGANDEFISGELPQIPSGFSQMPADSGQIDSGDELRLPDGFNEIDEDFSTVEAS
SSSSMPGSGEPDFEALNSAGSGLAGSSLAGAGSTDPASAATSFAGSNNRDAGNISLSKED
SKPEMSLAIPTEFEEYATGATGGALGDAAKNELDTQKETLGQKQNQTQESLQRQSSKLFQ
PSEQAVMPANPGASSAEQMGKLTTKSAINSAAEQSAQVVPANSGTSSVEQMGKLTTKSA
INSAAEQSEQALTPANSGASSIEQMGKLTTKSAINSAAEQSEQAVTPANSGVSSAEQMGK
LTTKSAVNNSAAEQSSQVVPANPGASSAEQVGLTTPAGKQVAKSDDKLEAKQPTTPVT
PVKPAKLPNASTGKEPLPTPSYAKELTLPREETATSKYEAELRQSAKSELPHISPE
ELSLAQDAQEAKPDPVQLKFIANEALLVLPNDIVLDELTEADAKLDLIDLRLYVDFLWE
EYRKSNEEKRAEIDNFVDNYDANFNKTASLHGENHAYEGLTEAFKAIRNDNLSLISIL
NSYPLLQLSDGNGNTLLHAAARVGNYPAAKLLVLKGVDFAKNRLHQTALSIARELSHDE
IVTLLKSAGLK

>gene_42|GeneMark.hmm|1154_aa|+|39654|43118 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MESDQYYLFKDRRFLPIFIVQFCGALNDNILKNALILITFKLANELTLSSYTLIMLAHM
LFTLPFVLFASISGQLADKYERSTIVKIKFVEIGIVIASYGFYTTNLPILFGCIAMMG
THSTFFGPIKYSVLPDHLRKEELLGANGFIEAGTFLSILLGTMMGGFYNFNLSLAL
IVSVVGFVASLFPKSNFNPVVKINLNILQETVNMVKAATKNQVYMAILGISWFWFIA
ATILAQIPLTKDILGADESVASLFLVTFVGVGVGSFLCNKIFNNTITTKYIFLATMGI
SVCIIDLFFASSIAAVSDEPEQLTISEFLTRGHRWRIVIDLFLLSAISGLYVVPYTVM
QYFSARSHRSRVISANLNINFFMMGSTITLSVLRVYDFSIKSVILFVAICNTMVAIYIY
RLVPDSQIIPRKVWTFISKIIFGIMYKIEIKLENYKKAGKKTIIIANHLSFVPEALIAV
YVEEDLQFAINTAIAKEWWWKPFKIVKTYVPEPNNPMAIKRLIEEVKKDKKIAIFPEGK
ITTTGSLMKVYEGCGMVADKADAAAILPIRVDTGTQFTSFSRVSGFLGGKFSRRKVTITIL
PPVKITPPEGAVSRERRKYIRQGLYDIMSDMTFESSEYNITLFQAMINASKTYSSNLKVM
HDVEHNKANYRSILIKSFISELCDVTKPGEKLGMLPMVMGTAITFWGMQAAGRVPAM
INFTSGSANVISSCNTAQVKILYTSKKFIEKAELESVKAUSEAGIKVVYMNLRKRVS
GLKLLKALVASMFPQRYYSLNQDTSASSTAVILFTAGTEGRPKAVALSHKNLLANTAQAL
ARIDFNPRDIAFNLTLPMFHSFGLMASLVMSLNGIKTFFYPSPLHYRIPEMIYDVNATIL
FATDTFLAGYGAHAHPYDFHTIRYVIAGAEALKERTRKLWSDKFGIRIFEGYGVTEAAPI
ISANTPMHNKPGTVGRLMPKIEYFLQKVDGIKEGGKLCVKGANIMQGYISPDNPGVIVPP
VVEKLGEGWYDTGDIVSVDEERYITILGRQKRFKAKIAGEMISLAGVESLLIKLDPEAEHA
AVSIADEKKGEQILFSTGKDITRERILQTCQKQNYSELYLPRVIIPIKEIPMMVMTGKRN
YRKMTEMAKKKVG

>gene_43|GeneMark.hmm|77_aa|+|43108|43341 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LESRDIQVSVESIGAIISPLISALFASNPNDYFFLTKGEIVAIGLLCFVRIIDDFDFS
NFSKISKQWDLNLLIAI

>gene_44|GeneMark.hmm|92_aa|-|43460|43738 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LDNFSNSAMLSQEGFVVESELHETIVNDARKESSLTKLLIISIGLLFWVKIIQQLSISR
DRMIGENNKSPNSYQGNRIKILRELLPMIYLI

>gene_45|GeneMark.hmm|320_aa|+|43791|44753 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VGVTQDLTKAFEWYRKAADQGHAAAQNNLGAKYLN GEGVTQDFSKAVNWFRRSADQGHGA
AQYNLGVLYANGDGVAQDLTKAFEWYRKAADQGDADAQYSLGFQYDKGEGIIQDLTKAFE
WYRKAADQGNFAQNNLGAKYLN GEGVAQDLTKAFEWYRKAADQGCTLAQHNLGLQYANG
EGVAQDLTKAVNWFKAADQGHGAAQYNLGVLYANGDGVAQDLTKAFEWYRKAADQGYAD
AQHILGVLYVNGEGVAQDFTKAAKWFRKATDQGHADAQHILGILYTEGKGVTDLTKAFE
WFTKAADQGHAAAQDNLKLLK

>gene_46|GeneMark.hmm|451_aa|-|44841|46196 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTATILVDDNEQNIKLL EAKLVSEYYTVLTAENARGAIEILKKNKVDIILLDVMMP EMD
GFTACREIKSNKDTAHIPIVIVTALHGVDDR VKGLEAGADELLTKPIDDVALFARVKS LA
RMKAAMDELTLRNSAITELGGKTIKLT SFANNKILLDDDLIQAKNIKSKLTS LTQQIQ
IISSAADIAGLGSFV PDLVIISCQLSDQDPLRISAMLR AKPSFKNIVLMLLSEENISIV
IKGMEIGINDYFVYPVTKEELQARIRTQLRRKQYQDDLRL ELENIDLSTKDGLTGVFN R
RYFDIHIKHLVQLAQNSRH DCM MMFDLDDFKVNDTYGHQAGDAILREFSKSLKSSFR A
TDLVARYGGEEFIVLLSDVGIKKATQIAEKTRAAIAKIDFTIPGETKTLKQFTSIGVAKF
NPNDSIESFIRRV D KALYN AKESGKNCVIAG

>gene_47|GeneMark.hmm|124_aa|-|46199|46573 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MPKVFAIEDNELNLK LFRDLLKI QKCDIILSDDG VGVLETAIEEQPDLILMDIQLGDING
MDLIRDLMHEKTKHIPII AIT ALAMKNDELQILEAGC AMYLAKPVAIN DFFKATSKFLN
LVDE

>gene_48|GeneMark.hmm|159_aa|-|46697|47176 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MIQISCYLTELEALPKVFCGLAEKCYSDMRTLVL TENDSFSTSLDRVLW TYSKKHFI PH
AMSGDPQPEDQPILITSAFEHSNNAEIVFVNATESMILEAAAAGSAVRLQNMKKILFLF
DDAQKMQSSEINNILK KSSLGFEFELK SFAKTSQGTWKT I

>gene_49|GeneMark.hmm|328_aa|-|47298|48284 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MIRSMAGSYNMRLIYNFFFIIIFLPAMSFAATAAGAGDGTIAEAGAKILEAGAATIRTNV
KILVTDATT LGTDTKVIEADAIIVESASGTNARGIAATDKVSAADA EVTATAKV SAAAAS
EPMAGAQGGGRINSDKQIVKARHIEECIGKTDGATEQIARFSVKA AVVDVESILEHSFAI
QHIIKSITTINNKIQEELSVKDIELKHIESDLIKRGTLD RKKFELKVAEFNKKVSMVQR
EKQKKKSALERAHA EAIALVQKNMNLVISELSK KHGFNMVFPSMQLLFVSHDLNITLEVI
TKLNKRLKKVDIKYELYRDNKSPEDTDS

>gene_50|GeneMark.hmm|762_aa|-|48309|50597 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VKNIFNIALFLMAILSSSAMA AKINKINVRGNKRIEQSTIVDYLNV RVGDHYSEAKKNE
MIKNLYATSLFETINIAFHKGALKVSVQETPFISRVVFAGNYKVRTKILLNEIYTAPGES
LRKAKIRTDVEKIKEIYKRSGRFSVHVSSKIEPLENNRVK VIFEIDEGPKTG IKNIYFAG
NSHYKDSELKSIVLTKE SRWFRFLETNDTYDPDRIEFDKQLLKR FYNSVGFADFRVISVT

SDLLPTKEGFALTYSIEEGEKYKFGKITINNKLDTIDDSEVLKFVDAKKEGETFNLSAMQ
RMAEKVSKYLGGKGYQPVEVHPEVTPNRSAGTVDDVVIVVDQASKIFINKINIEGNLKTED
SVIRRQLQIAEGDVFNRSKLERGQRNIRNLDYFGKFNLGMSQTKKQDRYDINIDVEEKST
ASFGFDLGYNTTGGMFGKISFLERNLIGSGRQFNAGVQIGKKSTHYTGLTDPDFLGLDL
SLGGTLFKSDDGTGSGFENGKQNYSSSTIGTRINLGYNITDDLHFGIEYGIKKSELKAPG
KTASIFIKEQMGKFVTSEISHSLTYDKTDSRILPKNGYLLTAEQAFAGIGGDTNYLKHEL
SGKAFKSFVDNKYTLKFAAGGHIKGLKGGKVRIPDRFTVGDYNLRGFASGGIGPRDVAT
KESINGQKYYTLSTELSFPLGLPEEFNMTGSIFIDAGALWDADSTAATSKGLYNTKTLRS
SYGFGVLWITRIAPIRLDWGFPKKEKFDQVVFHIFSTHL

>gene_51|GeneMark.hmm|100_aa|-|50850|51152 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTKYYPITPGEYLEHEFLEPLGLTQSQSRDIDVPISRINGIVKGSRAITADTAIRGLI
YFKTSAQMWLNLAQYDLKIAQRKNLASIQNRVQVFKAVA

>gene_52|GeneMark.hmm|92_aa|-|51164|51442 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MIKSFCKHTKNLFEDIRGKFKSSIAKFAKMRLTSLSIACSLNDLKSPPSNRLEALKGDR
KNQYSIRINKQYRLCFSWQRGDAYDVEVDYH

>gene_53|GeneMark.hmm|290_aa|+|51904|52776 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKKLSFQQIILELQRYWQDYGCAILQPYDVEMGAGTFHPATVLRALDKKHWNVAQVQPSR
RPTDSRYAQHPNRMQHYYQFQVILKPSDNIQELYLKSLEHLGINTKKHDVRFVEDDWS
PTLGAAGLGWEVWCNGMEVSQFTYMQQIGGIECRPVAGELTYGLERLALYIQGVDAVRDL
DWNGQTGDRALTYGEVDFHAEKQFSKFNLEADTEILFRQFADAEKQCKALIKEDLPIPA
YDYCIKASHLFNLLCARKAVSVTERAAYIARVRNLAKLSCQKWVEMEGEL

>gene_54|GeneMark.hmm|677_aa|+|52780|54813 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSELLLELFSEEIPAMMQKASSGYKEIFSKYFAANEIAFDEIDVYAGPRRITIHQGV
DILPACEKELKGPKISAPQQAIEGFCRSNNITPDELSVQEIKGQQFYIYKEKTPERCSR
ILLSTLSTPISEYVWPKSMYWGEYKIKWVRPLRNILCVFDGEVIPFEYGHVANNKCYGH
RFMSPKECVVTNFAEYKKALEENFVILSSDERREYISQGTKKIASKLGLVVKEDAALLEE
VSGLVEHAEMVVGKIDEKFLSVPSEILVDSMKIHQKYFSLFDKDGKFPYFLFVSNIRSE
DPDIVVSGNEKVLARLADALYFYNQDLKITLEERALRLEKVFHAKLGLSKDKTLRLAE
IVRFVSPKSKEAAAAALLCKSDIVSEVVDFPQLGIMGYYYAKAESKSEELALAIRDHY
KPQGAADQCPSGEGAILALADKIDTLCGLMLAGEKPSGSKDPFALRRQAVGIVRILENK
LSVDLAEVDFVIKYQDSDLIDIKPDSALNAKKQVLLFLEERVHFFKGEYNHELIALSL
DFELEPDLLALQMKLSALKSFVTSAGDILLVAYKRANNIIGGAKLTGQVDASAFVLEDE
RALFACINDYSDKITLALGDSNYSESLKLLANLRKPIADFFDNVMVKDKDPLIANNRLL
LDQTKKIFNKLAKFEKF

>gene_55|GeneMark.hmm|334_aa|+|54813|55817 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSQIEKAAKIIRAGGLVAFPTETVYGLGADAGSQDACLGIFKAKGRPSHNPLIVHAASQ
QASSFAVFGADAQKLMKIWPAPLTLVPIREGAKLAPCVTAGLETVAVRVPSDARARSLI

EASGCPAAPSANKSGRLSSTTYEHVQKNFGDSVFIVQDDGVKSCGLESTIIDLSTDPT
ILRYGFITPELLSEALGKEVAIASKLSKIKAPGMMLLKHYAPKTKIRLEAAALNPGEVGLD
FGNSCLGSGSLRNEGFRNGSMSSEGGSSDSVSSAGSLNLSPSGDLSEAASNLFDYLRHLD
EFALAHSIKTIAIAHIPNESVGLAINDRLSRAGE

>gene_56|GeneMark.hmm|176_aa|+|56102|56632 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNKIYGVVFTILTGMIVCNIFHVVVLAHFTGYDVLVGFMAATGVLISFVLAETEFSHIK
VDLIKYRDTKALKLLRTSLIFIVYTCFACAQYMAIYDSFFRSINNVMIIEVTTYALYFISS
ICFTLLSVVSGYRVVVKLIISKDGKIEEGRLEKIAEGRMSEVVESKEKEQKREFQK

>gene_57|GeneMark.hmm|434_aa|+|56751|58055 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLSGFWLFCALIIFLLRFPVFIALILSGSLGYIWEVGLNPWWHWASFPTNLVSQYHYA
AIPFLLMGQIASAGNITKDLFVFTDNIARKTRGGVAILTILSCGVFGSLCGSSLATAAT
MTPIAYKEMKSRNYSKELILGTLAAGGTLGVLVPPSIVLVIYSIIAEEESIALLSIAAIVP
AILAFLGYVCAIKYFIYKYPNEVPELLPKRQKTEYGLKAVFSLCSILLFFVMLAGLYKG
IFMQAESAAIGVAGVFAIVAASGNLSKLNWPKIFTESAKTTASIMAIFIGAEIFSVALTA
FDFPKELAEYVMYTYREYPLGIITIMIAALLVLGCFMDGIAIMLLIVPLFLPIVKELDLWI
APENIGIWFIIIILMVVEIGLITPPFGLNLFVIKSIEPELEQASNFKSVKYFVAAELVRM
SLLVLIPGIMWCVA

>gene_58|GeneMark.hmm|156_aa|-|58142|58612 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKILGIDPALTALGWVILSESPKIIYVDSGLIKTKPATPLHFRLANIADSIEEAIDLHQ
PDVIAEMEETFVNKNAVSSLKLGYYRGALMALIGKKNIPFYEYKPNNIKKTITGVGHADKE
QVKHMQMIISGTNPKISLDES DALAIAYTCLANQR

>gene_59|GeneMark.hmm|1023_aa|-|58612|61683 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNLSVLCIKRPVFTIVLSLVIMSLGAVFFNKLQVRGTPNISPAAITVNSYYDGADALYME
KQITAPIEKALKTLKNLKSMSSSSSVSQSNIMLEFELDTDIEVALNDVRSMMPPANYFPD
DMGAPSISKMDSDSWPTLWISVTSSMHDDLELTRIVNNQIKAPLEKLSTVKGSRYYGGSY
YSMHIEPINTKMFQHKLTPIDLEAAIRSQNKDYPAGSIKTDSSRSFSLKLAGSLNKPEEFE
DIIVKKYPDGTIIKLDVAHVRLKPYESDMSMRYNGNQSLAIGLIKQSTANIIELSESVI
AELPKIVKTLPPSVKIEIAFDGAVSVKASIRAVYFTIFEAVLLVGFVIYFLGSLRITMI
PLVTIPIISLIGTFSAMYMLGFTINTFTLLAMILAVGLVDDAIVMLENIFRHSHELKPPP
MVAAIDASKEISFAVVAMTMTLAAVFLPIGLIDGFLGKLFVEFAWTLAFCVLFSGFVALT
LTPMMTSRMIKQETSPKLFQSFDSYLLRVQDGYIGGLIYAMANKKKFYAVCAGSIVAL
IASFVYIDKTFVPKEDQGYLIVSFKGVEGASTQESLKTIIAEKTF SKYEDIQGFLT IAG
DGSGDQGF AFVPLNDWSTRSNSQDELADKLNKDFAKIPGMSIFAISPPFGGGGNSPVN
FILQTSLEYSDDLQVAQKFVDQMKENKMFENISKDFKASTPTLDIVVNREKAYRYGVDID
TIGKTVQYLIAGKNVGD FRMGNDIYNVVLRYNKKDRNPNPSDLNKIYVKTCDNELLPLETV
ASLIETITVKTYKHYNNSKAIRITSDMSKDTSLGDAKIIEMAENIIDPNTTQLKFSGQ
IQQMNESGGDTLITFLFALLFIYLILSAQFESFSDSLLILLAVPFSMTGGVLTLLIFGDS
INMYSNIGLITLIGLVTKNSIMLVEFTNQLRETGKNIHDAVIEAAKLRLRPILMTSIATI
CGAIPLAFASGAGAASRSSIGLVVVGMLVGTLTFTIFVIPLLYETFKKEKDLREERSLGE

GNS

>gene_60|GeneMark.hmm|376_aa|-|61680|62810 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LERLLVVQNI FRVFLLPFLILAQALMLASCSKEIEDSPVVLV KPAKIATHDFHEKFIAIG
QFKYESSKTYAKIAGTVDSIPTHQGERILKGDILITIDGEIAKTLKNQADASFISAQSS
YERELSLYKKKIIKTEALDRSKVALETAKANRASAMKKYDNMVIKAPFDGYVGVVRRARVG
DYLKIGDYLF SFIENGDKTVFIELPEILHGQIDKTTEVFVTDTKGTKSSGRIVAVSDYLS
NRGTITTKLLFPLSAAIVHGSYVETEIVFNKHSAMGVPEKAVLKNSTGNFIYKITS DNVI
KQVYVGVGSR TDGIIISSEEITEGDLIVIEGLTKVSDKSKIELIKEDSGTVSSKTTDSK
AVDSKAVDSKAMGSSQ

>gene_61|GeneMark.hmm|117_aa|-|62960|63313 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSFSKFHIELDNDLAWKLVLLFSAMLLILGTAESAFATENKDVIGETLCRLADTLRGSVA
KAVATMAIFSVGVGLFLGKLNWGVAAATAVGIAIMFSAPRLISFISGVDYGTKCLVD

>gene_62|GeneMark.hmm|385_aa|-|63564|64721 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSGSENNLEIVIQTDLARALGFASSVVEKRNVM MELGNIKLVAKGGTLEIGATDMDLY
LNQNIGAEIIREGGTTVSTQTLSEVIRKIPDDEITIKENVLANKLEIIGKNCHFELLTLP
TEKFPEMEDIDTESSLSISCADLARIIEYTNFAMSSEETRYNLNGIYLHVKGAEFCSAAT
DGHRLAVASVPLSNKSEEFVIVPSKVTTELLKITKDGQNIHSEMRFSSNKVKFECNN
LVLISKLIDGVFPDYSTFIPADNESKLTVSKKLIAS AIDRVATITVDKFRAVKLAIDNDS
IKITASGEAKGAANEMVAFSDEKKDYCNFSGESLSVGFNPRYISDV FSSLTEEQVELYFK
DEFSPVLIKTAQNPKDSFVIMPVKI

>gene_63|GeneMark.hmm|474_aa|-|64767|66191 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MQQSNHVNLSQKDDSYAHLWRDVSKDLTSHY GKDLYRNWFSKINFLESQGGKNILLSAP
SNFIRDWIKSNYFNTLTEIWKRHDSA IKTIDIVTKEIPADQKNAANTPHTPNISGAAGIA
NSATNVLENNNDILSSLDTRFTFDNFVVGPPNEFPYAAAMAVAESDNAVVKSNPLFLYGG
VGLGKTHLMHAI AWHCHEKNPNRKVLVMSAEKFM YRFIKALRSKDVMAFKDEFRSVDVLM
IDDIQFIGKESTQEEFFHTFNAIIDNNKQMVISCDRSP TDLDGVEDRIKSRLGWGLVAD
VHSTTYELRLGILES KLEKMDIQISPHVVDFLASKITSNVRELEGALNKVIAHSTLVGRE
VTLESTQDILRDLLRSNERIITVQEIQKKVAGRYNIRV VEMSSARRLSIARPRQIAMYL
SKILTSKSLADIGAAF GKDHHTVMHAVKKV GELMLKDSDFHEEITLLTRILQS

>gene_64|GeneMark.hmm|89_aa|+|66343|66612 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MNIKNDQLIKLLYQSCNRGCKETDLIIGQFARQNL DNMSSELAIFEKILQLADGDIY
DWYTKKPKVPAENKSEIMVQILNFEP AQI

>gene_65|GeneMark.hmm|426_aa|-|66671|67951 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKGMNDEKPVKQKAKRAKKSETQVKTISK TQTDPI TDLQAAITAELQKPQTALVTQSGQP
QTALVTQLQAPQINLPPIPAESTTRI QMKNRSPHDEL FKSLLGNLDSAKDFLTHHLPAD

FRKLVDSLQITVDKESFVEPNLKKRFSDIYKVKTIDNKDAFIMILCEHQSSVDNLIALR
LDKYRNLLLEREVVVGKQKQTLPLVAQVVVYNGRDKYTAPLSLWEMFEDPALAKELMGGEY
KLINLQSMDSDEIRERNYVGMMEYFMKYAFKQDQIEVWKRFLKIFGRHLIMQDKDNNYLY
MKAFFCYTSRKLEDSSKDLLELLVNELLKYEGGQPVRSIADAYIDEGIQEGINIASANM
AIIHQESEARGEAREARGEATGKMQSLCQTALNMLEQGLGVNLTskvtglseekiklee
LEFSKV

>gene_66|GeneMark.hmm|53_aa|-|68052|68213 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VTGEPKDSGVGTSRTQKQYKMPWDLWLRSYDCTYVDNSSRSKLAKPSVKKY

>gene_67|GeneMark.hmm|981_aa|+|68310|71255 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MANSIAMYTNASETISGNVAAEKACGYKRENVFTTSFIKTADGGRVSVNTEIKKTSQQ
GKLQSTGNNTDIAIDGSGMIPVTTSGNDMIKYTRSGNFRPDELGNLKNGANQLLMAWPLD
KEGKIPANSSLSLLPVNFANTKGTPIATSIVSIAMNLNAGEEAMRGNGVTAKPQTLGA
NKTAGDAGILSPDQLGSSGLEIGDRFKFTSTPPGTEKSVIFGGVVVSNTPSNATPIFGAT
SANMTFDFTGGAITNDQKLIIEVPGVGKYSFRPAAVGNAQRKEFSNIYELADAINNINSL
NARIGENGQLYVGPTDARKGLNFSEEGGTLVSSFGFSNLAPSAVGEYRFNSLYTLRDAV
NRDAADYSLKATIEDGAIQITSLSTTAFTVEGESLGVHSSAILNPAGTEKGRATVFI
SAPGSNLSEGDFVRENVGGIIDGLYSVSGAGANGFNVPDNNPLVFPALLAAGQIAL
GAAALWQRAPGEKESITAGTITGVAGANITIDGGAAHGLANDDVIYVSGGTFEPGAGGN
NITLPEGYVYVSGVAGNNFNVIATAIAAGAIAPGFNGVDLQFRKIGNDGAAYPNAATSGT
FNSRIFNTNAIATNTITYHVGNHNTYAVGDIISLTGLGGPQLIDGITIDDNIAYKITAIG
VGFVTFEVDATAGVAAAGATDITYADLAFVNTRTNNSRFFEFYFGIDQTKSQYDPTYNAL
NEDKNLSGGANASFTYPLSVYDSLGSPLYRLMLRFALGNNEWTVELSAQKDEETGTYDIT
NIKPGSNGLIRSGILRFDHMLQGTPSGFEDPVVQVRNNGSAPSEIVIDWENKLSAISK
GTVSQTKNNDNNVEIISDQSDGAGNLVKLQISPEGYIVGTFDSGETRNLYQIPVALFPNLN
GLEAGSSDTEYVNFVRSGLAKYVPGKSGAGKTIGSALEESNVDSTGELLKMKELSSAIAL
NARMASSKHQSNKQILDELRS

>gene_68|GeneMark.hmm|47_aa|+|71358|71501 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LVVCDKVARVSCKLRFELACGFAAIADARIQQNNMKFNFRKNYYDE

>gene_69|GeneMark.hmm|1557_aa|+|71491|76164 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MMNKSSFLKLLTTASVVIAANAGSAFGEQKQTKEGEVAIIVVPGAGKNIQNSALED
AQFNNKDSLLVKAGTKKVTVSDARVIASIGLNGENAVELALEEDVSVSSVVDLSESGKKL
SVNVGAGKTFTLNKDLEGKFNLGGEAADIEIAGGNFSALDNIMLGTGAGGGVGTNLIDL
IMTVDGEVDAAVAGSGLVHVNDVTFANLIGKTNVSVIEVADKVKVTLQKSNFTTIDMK
GESEFVVENGVELTATAFTVEADKATVHFEGNSDVTVAKMQGAGTDGFKLVEIGGAVNFK
TAAEYKAKETKLGDSASAEFSNKAALTLETFTTDTDKKGVVFAEGSEVFTFSIGAA
GAAFELVEVGKDGRILANKDAKLYATSVETAVNETGEFILQGEGAELHANVGSSAKKFK
NFGIAMTAAESTVLSNHIYVSGAVALSTNGKNNTLVMKEGAKIVGDIVSEDGKGTLLVE
GVAAIDGFVGLDAATEKYTVNKQEINGGTIKALRFGKDGVLTVSKNRVNTREIDFTAGGI
LNLTEDKVANFANGLNIKGLGSITVKNKATKGKEVKVETKLGESKDKMFTLFAATGGADIE

FTKSSYIKKVAIGAATLKLGEIDGKFLIGELVHSGDAPTL SITQNTTLLEGTNLSSGAKK
LEAIQFETDKNLIVGKGVNLHTNKGFIAGNNDLTFEGGSIVDSVIGTKDSKFN SVTITE
AGDISFLKEIFLTNNLTVDKAGTTSFGGDVTLTDLILTEGTANINANLTANQIKTNAV DK
TTLNFSSASKAVIDSKVGDGVTVFKEVVLNGTDIEFKKTFNTKSLNFKKGLTATLSGLQE
DGLKNTKITTEDAHKGILVLNKDNNQQFDEEVGTDKDKHFGIILKVADNTNIITINNFYS
ALHTATAEKGRVNIKEDAVIGSLGEASDELENTFTDSASVLDGVWAKDIEIATGKKAT
LSYIVASSNEFKLNKDSEAVFTGKSGKLDATVVASADGFGKMTFSQTLSMITKSIGTSAA
KIAEVFTTGDADSRVTVLSADIFANEINVGKKHTIMLKNAIEMGGKTTFQSE SITEINAY
KLTSSGDSALEEGAEIAFIFNDVDDHGQISVKGATTKLDADKKTIDVVVIDDKSALPVS
EEEEYELFITENNGTLTMDGLKMNVKHEGNDFVQWTQKDAAITLLRNNVAKEKLVLVTDKN
TAEAYGDATIKGDARDLVLTALGNMTTEERQKTLDSLTDLAKATTSVTSNTIAGTQNAASH
ALQRRVDQLGISSGSDSSSAYGAWFSPFYGTTTQKAVKGAAGYKGSNYGGTIGGD LQTDS
GLVLGLTASYAKTKLHKDAKSGD TTDVRSFIFGAYA AKQITDNWVQGDV SFGTNKFKN
TENRFLSKVLTEKAKSKYSVNSFSLGMLAGYSYKIADAVVTPVAGLSFSRVGGVSYKEKG
TSFINRDVKKTAVNVLEPMIGFSAHMTTDMDGIAITPEFHTSVKYDVIKSDAKATVTHSG
LNKKILYKSKKAHQAKFNIGVGVNAVAGIYEGASYDLIAKKSLSHQGS LKVRVNF

>gene_70|GeneMark.hmm|370_aa|+|76355|77467 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MEKIKLAEYIWL DGTQKPTSQIRSKSRVVSLLDSPNLNSPDL DSPDLSPDSDSLNLDDFP
EWSFDGSSTNQAVGEDSDCILKPVNFVKDPLSETDGYLVLCVFNPDG SVHSSNSRAILR
KALENGGADEDVWLGFQEYTMFKKNIPLGWPEHGFPGIQGPYYCGV GSEQIFGRDLARR
HQTACIEAGIMYYGSNAEVMPGQWEYQIGYRGIDSE DAGALNISDHTWIARWLMHRLSEE
YNIHISHENKPIKGDWNGAGMHANFSTKNMRDPQKGRATIKNALIQLESTHQEHIKHYGE
RLEERLTGKHETSSISTFSAGNANRGSSIRIPRVADKGYGYIEDRRPGANADP YMVAAL
LISTICSVSK

>gene_71|GeneMark.hmm|489_aa|+|78202|79671 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKNLESLKGGHNNSTKLETTDL SAVPSVEEQGRSQSGSGESNNNWSWRSFSWQGMVLGGV
LAFSVYNFWKAVENRAKSREYKALEQLKSNLKKLSEECSDNNTTIEKLWQNMSASSFIKM
LLDDIKKNYNSDPSTLAKILSDLEVNLYVYIIASYC NNYLYKCGHTGREEVRAELEFARE
LLASKCNQTLDDL NAAALRGHPNFSELYIQITHILGR TFLYRDNTEADIENGIRYFEEVC
SFGEQYQQMGGQKLFYLLSARNIGFMKLCQAEFRENEPID EPTCSTKKASLRSVIEEFK
QLKQDAEEYTEFTFKDGELTRETIIIPANDAYNRLECAQRIMVCYYNLFLY GAREDELADD
MREIKDLIGTKHTEEHSMAADIAHLRQTNLKKYADILNMFAKLWSALEGLALPEEVDMH
VNELREIIIIGQVDSKLT SREEILQVAKDMSVKGSFPNLEALELLESCNSDQFEQLVDD ET
PLAGEGESA

>gene_72|GeneMark.hmm|220_aa|+|80302|80964 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKLSEKACNQDEK FVVALDGPSASGKAIGSALAQEFGLVYVQSSIVYRGLAYICLQKGI
SSGNTHAIK LSETEDVISEVRSVDLNF EKIGEFASEISVLPEVRRNLGEYLTHLIK TTP
RIVMEGRDIGTIVAPNADLKIFITANVEIRAERRFKQLILEGKECTLGAVLASLRGRDAR
DSSRSVAPLEAASDALVVDTSSLSPEEVVSKIKDFVACRV

>gene_73|GeneMark.hmm|572_aa|+|81067|82785 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTIKKRFIPQLADLTPSTEDFSELLKSVDTSHIKEGSSVVKGQVVEVGSEVIIVDVGLKNE
GRIAVSEFQTAKGQALPNVGDVVDVYIERVASRRGTVLSREKAIREESWVKLEEVFKKEE
HATGTIFGRVKGGFTVDLSGVVAFLPGSQVDVRPIKDPTSIMDIPQPFQILKMDRKLGN
VVSRAILEESRSEAREEMLSKIKEGDVLEGVVKNITDYGAFIDLGSVDGLLHVTDISWS
RINHPSEVLTFGQDIKVMVIKYNNAESKRISLGMKQLEANPWDDVVNEFPLGKTMSGKITN
IADYGGFVELKEGIEGLVHSSEIAWGGKGNQNPCKLLSVGQEVFVILDVDTERHRISLSI
KKCQDNPLIKFAEKNPVGTIIPKAPIRNITDFGMFVAIDERNDGMIHESDLSWEKSGEDLL
KNYQKGDEVECKVLNIDIDKDRVALGIKQLTDDPYEGSTDTFKKNMVVTCEVISIDDDGI
EVSVEGKAQGYVKKFDLSSERYEQPDRFTEGDRVDAKIISINKETRKLGLSIKALEIEE
RAKVIKEYGSTDSGATLGDILGAALGEDSKKK

>gene_74|GeneMark.hmm|101_aa|+|82963|83268 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTKKIMFVEDLQNGWKLYGKMGNGSQLSCDRSRKLNKQVGWVFGFIQKNDQSI AFAYLIA
DDSPEKSYASLRAKAAAKEKLIAMTNPYKSHSFLLVGNNGS

>gene_75|GeneMark.hmm|442_aa|+|83488|84816 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LINYLSKAHGGEFILRMDDTDLVRSKDEYKENIKRDLKWLGLEWDSSFNQLSNLEEYEQ
AKAKLIAKGRLYPCYETPEELDIKRLQLSRGKPPYDRAALDLSPEQIAIYEKQGRTPH
YRFLVESAPIIWDMMVKGTVKYHGSNLSDPVIIRADGSMTYMLCSTIDDINFNITHVIRG
EDHVSNTAIQIQMFALGAGGSGELVPSKLPNELAPSKLVPKSVVFGHLSLVKAKDE
KISKRDGGFEISALRGEVPEPMALNSFLGLIGTSVQMMPHKNMRELIEKFDITTSKSP
TYIRGELDLINHKLILTYDFADIQDYLAQNGLQQINEKFWLAVRPNLQKLSDIKEWWRIC
HEITPAISKAPELMKIASDALPEEITDATWKEWTKAIMAASGKKGKELFMPLRLALTGME
TGPELKNLLPLLSRQEILKRLR

>gene_76|GeneMark.hmm|948_aa|-|84998|87844 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTNKKTLNKLSSCCIAALISVNGTNVAYGGGKNTFRSEFLDQIRGGFQLKEASQQKGD
REPSEAFDGLGKAISNSFKMIGDDVDNSDADSDSDSDSDNDHRRPAKNLLGKAIG
EYVESKASPQQEATTTQTRISDVEQELKAIDNITFVRGNQIFHNNGRQVDGKTFGDHAGF
IEAYKESTKKLLREKLAILNAQKNVTLPKNTHSAQTTEVEIKTPAVPPVDDHKAESINDL
LRFAMMNRQVIQTGGKPPVPSVNSDKMEFTNMLPQQPITMEHLEAKTVEEAKKVTFAP
ALEILHAEALCAEQADDLMLQRPITMEYLEADTVEEVKKVTFAPALEGPTQVTFEARRAM
LNSIHNLKRDQEPEESTVSIKQDISDLQAEIARLAEI IAKAAGEERA AKLRSIVVSSP
EHRNNMIQLHKEIKNAYDAKKRAEKEGVGEIPEDFAQMWDDIDPSTDTDEEILDNFEGMW
SRLEASALEESPTEKLRVVAKMSKSTNSKMYAQMQAAKLATEAVARFTAKKRAAEKASR
VAAARLAAAKLAAEFVQNARSAALGKGNTSDPRLGLVVVAREKFDQATSNLTLTKSKA
NLKEKMKTALHATDDLQGMANTLDNATNHVEKAVFSAQAQAAHAAAGNVNMTLTAESANT
NAASRLAYAYAAGDDDTGFTHGLWVKGFVSKGSLKDQYKMTNNGFTIGSDIEINDDTILG
IAFTLPKTKVNYDKKFAMNSKISSHVGTIYGSHNFANHVVFVNGKFSYGGTVKTRKVN
GIAKSKFKPTIMNIELDSGRSFM LGDGY SITPKIGCGYSAYSAPAYKETGASNDKISAAK
RTAFNLKAGISLAKSIAFESGIMLKPEIHAYVEHEVGVKNKNQTIKHDGIWDIESKLHNA
KNKAVKINLGSSLVK SANERVDCDFGYDFNKKAKFSSHTGYLRLRLNF

>gene_77|GeneMark.hmm|42_aa|-|88129|88257 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MIFKSQHELWENILYIVHWHIAPKISSTRLFCQKFEAIMNIN

>gene_78|GeneMark.hmm|192_aa|+|88865|89443 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTQRYFSNMTSKVLVASPFAMRGTMFHESVIYVLEHRPEGAIGFIVNKPIINATPLSEVV
KKLDLDIDADNLKLAPHVGGPMTEKGGFFLHSSEYTKNIVSTHAGSGLSVSSSDVLLRDI
AKGVGPEYALFVLGYTFWEEGEMELEFENNLWIATEANRELIFSPDSGLKWGKTFQNLGI
SSGGFAPMMANC

>gene_79|GeneMark.hmm|246_aa|+|89499|90239 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MDFNPEPEGSLSLLGKWRAHSGRNNTHELLAILKGLSAGQIGKIMKVSEKIAKQNHQRFQ
TYENLPEKPAIFAYVGDVYKKMEPGTFSLEDLEFAQDNLRIISAFYGLVRPMDKIKAYRL
EMVNLKPGAPVKSLALMWQEDIAQMINEEIKTHPNKYVINLASDEYSAAIDAASLDAKMV
NIHFREIRDGVLRNIAINSKRARGRMAGYIIGRIGSPEELKSVSALHYAFDAGLSDES
FFFVNS

>gene_80|GeneMark.hmm|882_aa|-|90335|92983 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
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TRATSSQKSVRAGGKHNDLENGYGTARHHTFFEMLGNFSFGDYFKEEAIYYTWNLLTKEF
GLDKSKLYITIYHDDDEAYSYWNKIAGFGDDRIIRIATNDNFWSMGDTGPCGPCSEVFYD
HGEHIAGGLPGTPEEDGDRFIEIWNLVFMQFEQINKDTRIALPSKSVDTGMGLERSVALI
QGVHNNYDIDMFRDIISHTESILKVAEAGEALFSYRVIADHLRSASFLIADGVMPSNEGR
GYVLRIMRRAMRHAHQGGKDPVMYKLLPKLVDIFGHTFPEIKRAEEFISVLKQEEER
FKTTLDRGLKLEEEASSIANSGLPGNVAFKLYDYGFLDLTEDILKRNKIKVDIAGF
DKNMQEQRERARKAWNGSGESKTDSIWFDIMSEFGATEFLGYSLSAEGKVFTLVQNGKR
IKQISEKGQKFTLISNQTPFYGESGGQMGDIGMISSSSCKIKVVNSLKYLGKVIGHICEL
EGLISQNDEIKLTINVTHRNLHLMHHTATHILHAVLRDVLGKHITQKGLSLVAEDKFRFD
ISHPAALTKAEIKLVEEKVNHIIMENSQVNTDLMSTDKAIESGAMALFGEKYDSEVRVVS
FGTGAEKTPYSLELCGTHVKRTGDIGAFKITYEGAIAGVRRIEAVCGKFALASIAKD
EELGNVMKSIKSNKADLLQKLTGLIDSKKDLKQLENLHMDRLMLSDSEINDSATKIKE
ARVIYRQIDGVSPKMIRMAAENLAKKHDDLVIYTSKSGAKLSVLIASVSKPLSEKHNAQT
IAKELAPLIGSGGGKPTLAQIGGGDVGKQLQKLDIIMRMLG

>gene_81|GeneMark.hmm|516_aa|+|93170|94720 >NVVL0100001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSSLSSSKLGLFVNILNNLFHKNRNLIIILIGKNGITVCALKHGKQLNSLFDLEDKSYM
IGNFLKYYKFFYVFLDHDCKLKHEMTPVLTSMKPNQLDEFISNEYDPEDIVAYNVY
DIDYQNGEVWNSCIASVPFNKHISKLLEYILNHSFKYSGMYFLSLEFETIINRILKSDN
TNYANHLQIFAVVTQSSGIRVVVVKYKDIMAEETIEYPAGKSDMYLLGTIEQAVSDKVLF
YKEYIKMGLETCVILLVEDVLVKKFSKLEFDNCTTVIVSRDEISNARKYREERFQDTV
MELFNNFNSCIAFNKPLGAIKMTFINRVFFKPVIFLLGLAALVSIKYQTILVKKEIR
ELNQKYTLSEYREVQKQHPDIENITTLVDLYNLQNLINKKMVSPHLKTMLIKSYRKN

VKITSLQWKVLNPTKIELSENQLRITMKIVYKGDANSMITGIKMLNEYVDDLRAIFPKHN
FIYRRDAEEILQIANRITIPASVIIEGNTEQVKNAI

>gene_82|GeneMark.hmm|210_aa|+|94710|95342 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLYKLIHLKNIIFKVIYVIGLVLLFVLIPIFQESYEQALQRKEKSTKFLKSTALKLD
SIMDFEDKILGVNNDYLRLIKNSGKIGCAQRAKLLKNLPLSEKYKLFEPMNISLLRYVG
HESAFKTSNIKINLYVLEVNFTAANYNIILRILRDIYRMLPKRSNVADISVNVKVEGLTP
DIISKLNDRAPGELDVKIKIYLREIVYEK

>gene_83|GeneMark.hmm|393_aa|+|95332|96513 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKNDIILPPGTDSPRFQEQFNALFADNLSENKNSIAMLLAIDYAARLSSKYKIEEHA
CARRLKQYIGQKLVLGEEFSSVMTFFAVALTPEEWQEDMDQSRREKSQTKEALIDSITA
QFGSLNSSQKELVRMFLQDSLSSKRSNGFEGEGTLKGEDGPERDGKLKEEGHLKGMANLA
RDGRRLSQNNAKFTQENNIFHQKNNAFINFIANSDFQSIISAQRNEKRDKEILEFTK
MHITKIMNYSRQLERKISSIKNIVEKSVFSASVLSASIGLVIGGLALPLLVVPAIAAAV
KYSPAIGQKLSSSIVKNSSLIQEETEGLNKLKLSLSALNKGQNQGSLEHSGLKEDMKD
LIQDIITKQVPRSEQPASGGDSSKKNKLDKMR

>gene_84|GeneMark.hmm|149_aa|-|96859|97308 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKHSAVETLVGFLVILVATGFFIFAYNTSNVAKAANSYAIFANFQNIIDGITDGADV KLSG
IKVGYVENVTLEEETVFATVKLRIDSNDIPKDSRAIVSTSGLLGGKYIRINPGPSDYNI
PDSGKIIFTQSALNIEDLIAKLMYSLTSK

>gene_85|GeneMark.hmm|114_aa|-|97326|97670 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSFIDNFCIRFFAKHVGSDRFGNKYYLGQKKNYLKAKRFVTYNGQPNGAKVPPDWHRWL
HYSSDDLPEMQDAIKLQRMDAGGRICDIKYADISSASSKSSSTYSSWSPNQKR

>gene_86|GeneMark.hmm|160_aa|-|97671|98153 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MTAPAMSASSTSLPFVEIYTDGACSGNPGPGGWGALLIFEDTQKEIFGYDIETTNNKMEI
FAAISALNILKKSCRVNLYTDSKYVQKGITewiHNWQRNGWRKSDNKPVKVELWQSLQQ
KIEKHEINWCWVKGHSNKGNDIADRLAVEGRELAKRKVK

>gene_87|GeneMark.hmm|164_aa|-|98159|98653 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLGIVHKVLWLSLQNEGMVNDQCFYVSFNTTSLNVIMSERLKQRYPEEITIVLQYQFRDLI
VFDNKFTVNMSFDGIPETIEVPFDSLTGFVDVNFANFSLKFSRIAENAPSVVDEFAGRANI
SKLKKHPSVSLKVTPVKSTKEPKKTAASVIQLDQFRKKHSDK

>gene_88|GeneMark.hmm|36_aa|-|98810|98920 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
VLSKEIIFTQYDTAGSFDLGSKKVNANDNNRYAVAA

>gene_89|GeneMark.hmm|465_aa|-|99159|100556 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLKKINDFVVKSLFLALLAIVSCNDSTTKSSCDNIPELEKLSNQGEVVSQANLASCYYK
GEGVAKDFDKAVLWYRKAADQGYADAQNSLGNRYNNGEGVDKDFTKAVLWYRKAADQENA
DAQHNLGNRYNNGEGVAQDLSKAVLWHRKAADQGNATAQNSLASCYYEGKGVAQDFTKAV
LWHRKAADQGYAAAQNNLGYLYYKGEQVAQDFTKAAKWHRKAADQGNASQNNLGNRYSN
GEGLAQDLSKAILWYKKAADQNSFAQNSLGVQYAKGEGVTKDLFKAVQYFTKAADQGNA
AAQNNLKRKLLQFASPFCKIGITTFEEVEKMYKLTQSGSNKWSGGMMYNITPITQVDFT
GINNINLIFDDNKIIQGLIAKFDKNKFHDLFLFLESKYNIVSKQIPYVGNKSAKFSMING
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>gene_90|GeneMark.hmm|959_aa|-|100672|103551 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
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SGFSIVTTKTYGGGYHLVATFGMMVSLITAFYFVPRMGEFLGKTSIAEAMGELYGEKI
RVIVAISGIIASSGYIAVQFKVFGDIVGYFSNSDRTLIIITGLAVTAYSAYGGVRSVTF
TDILQFFTFCEFAIPLIGIMIWNKLYMVDSEFNMMTALEVDKFNKILVDVGNPQFWEIPL
MIYFALPGMKPSIFQRISMGTNLAQIKKVFVSAFLIILVQIATAWIAFLVFSANPNIEQ
GELFGYIVDNYTYTGLKGLFIVCVIAMTMSTADTEINISSVLFSDACAALNITPKSRLL
LSKIFSLFLGICSFVALSTQDLLQIILSTASYMPVVSVLFILTIAGFRTSPKSALIGM
SAGFFTVIIWRLAKIEMNPVAVAMFVNLVFLMGSHYLLDQKGGWVGKDKSFLEAQKLES
IQKRQFFESIKNFNLVDFYKHAASDNLTYVGFYCAIYTITTMHSTEVENLLQDNGQI
ILAIYQIMMVTGIVMAMYPLWPLNITNNIKERIIQTWWPIAIFYMMIFFSTFFVLVNGAN
HLQPVVFAINMIIAILLWKTASVFIVGGVYLAVQFYKYYMGIDYVDISIGSPQFILMY
SLVLIGTILIFLKPQEHLEKTEHQVGLAGEVGLTTEVNTLDTKVVGLNEKVVHISA
RATDNAREVERLGATSQKILNNVSHLRPLVGNVINFASMMHDGLEKFSKEQLKTISKEV
YQNSNRLSTMILNMLDLATLDVKKIELMKRKNVFSKLVVEERVESCRNIYVDSKPLKFKIN
IEPGVIAPIDRNYIRQTIDNLVINAITFSETGQITISVAKQANFVTFVQDQGGIGIPASE
IYDVFTPFKMASNTETKAEGRGVGLALCKAAVEAHGGKIKVESHGVLFRVVLPLNSE

>gene_91|GeneMark.hmm|536_aa|-|103855|105465 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MLKKLLFCITLILLYPLSCAELQRTGQPSYGASLKAQNDLEYLGFSPKVNFDYQAPKL
QEMLAKRSSYKNLITRILYLFYWDQNRNSIDATNESQELFKMLLAKIPDANYCYSYRS
ASTEEMFFRWFINKPFVWHVERYEIFKSADLEGKTYQLPLWLVLKYPQIVKNDAYRKPLK
VNTPYKIESLPEFTALESTLKRMTTEGRWETTSRITHYASNVNDIGAQHEIKRYMNINIL
RILNYSNHTTEQNLKPIKFWGGKGLWNSLVYKDFVVSFEKTVIALQKFYQSTPYIIGYE
QLNRNPLISEQLIRKILSSLVYDYAPIDDSDFGVYMMETGDEKSYYKIMKSVLGSSSSHN
SNNSAGLKKADSRASNMFLSRAILNDFS AETIELIIRLYGGVNSCNYSETPLMNAASRPE
ILRLLIKNGAKIDTVNTFGKTALFYAIQFGDYEAVKILIDHGADV NKALYNLETFFNNLSD
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>gene_92|GeneMark.hmm|111_aa|-|105617|105952 >NVVL01000001.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
LIKVIFCYNMPGKLSYAKSSCARIFRSKLSAADLRLNSFLVYPYGEVAEWL KAPAWKA
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>gene_93|GeneMark.hmm|272_aa|-|106022|106840 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MKNIMTKISKKLEGGKGIITGVANNMSISWAIQAQLAKAHGAEIALTYQGEVLEKRIFPL
AEEIGCDFVQECDVTDEASMDRLFAAVKEKWGKIDFILHGIAFADKNELKGRYIDTSLPN
FLNSMNISCYSLTALAKRAEPLMNEGGSILTLTYGAEKVIPYYNVMGLAKSALETSVKY
LAHDMGGNNIRVNAISAGPIRTLASSGIGDFRSMKTHAATSPLKRNTTQQDVAGSALYL
MSDLSSGVTGEIHVDSGYNIMGMNTPPKETK

>gene_94|GeneMark.hmm|502_aa|+|106903|108411 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MFLTRKVSFIAGIICAASFAPVFFTPGIFALSVLCAQVSRANGVGQAAGFGYAFGFGFFL
ASLYWICFGVAVYIDQFWWAIPFALFGLPAFLALLIAFQAAIAWQFRKCHYKYHLYHFF
FCLIWAMEWFISWGFTGFPWCYIGYAFSVSDKMIQASSIFGILGLSFAAVYIGSTLYSK
KFLILRLLTGGAICIALFAFGHYRLEQNPTVLSVVKIRIVQPSIPQTAKWDPDIFWGNLD
KQIAMSQKPGSPDILWSEAAALTVYYYAPVHNALMSVFTKEGQVLLSGGVSDNGKQGAD
YEVYSSLFAIDSAGENLFDYHKSHLVPFGEYMPGRKYIPLKKITHGSIDYTPGTRKTVYL
QLFNLSVQPLICYESIIFQEVKISNSDADIVINVTNDAWYGNSSGPYQHFEISRIRCIEN
GLPMVRSANNGISAIMDPMGRVLAKLELNQVGILDGYIPLKLVLPITYSEWGKVGVCSSWV
SLVLILQSMIYFFFCLVKRRI

>gene_95|GeneMark.hmm|103_aa|+|108501|108809 >NVVL01000001.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_460, whole genome shotgun sequence
MSDKKETKGRADNVDRLVSHRLKMRMMLGLSQNDLGKAVDVSIIQQVQKYEKATNRISSG
KLFASFKFLKVPVAYFYDQSDSGNIIGSVLAEAEASSYSSDLK

>gene_96|GeneMark.hmm|180_aa|-|1|540 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MFEKPLISFDFAIKFLKSKEDYEIIEGFLSALFVANNYKPVKITALLESESNKEAAHLK
KSVADLIVEDTDGNKFIVEIERSFTPNFTHKACFNTARLISDSLSTSQDYSKIQKIFHIS
LLYFETAGMEKPIYHGKTIVHEVDTEHPINIDIMNKGIATFENKNIFPEYFFISIPRFND

>gene_97|GeneMark.hmm|334_aa|-|929|1933 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSLLNAKSIYKPFAYPWAYEAWHTQQKIHWLPEEVPLADDVKDWNYNLSAGEKHLLTQIF
RFFTQADIEVNNCYMKHYSQVFQPTVQMMLAAFSNTETIHIAAYSHLLDTIGMKESYQ
AFMKYKEMKDKYDYMQKFGVETKEDIATLAVFGAFTEGLQLFASFALLNFPRFNKMKG
MGQIVTWSVRDETLHTNSIITLFKTFVQENPEVWNEKLRSLYEACATIVHFEDAFIELA
FEVGGIEGLTAREVRQYIRYIADRRLMQLGLKEIYLVDSNPLPWMDMMNGIEHANFFEA
RATEYTKAATTGTWDDVFTNIDKGAAGKGQTAG

>gene_98|GeneMark.hmm|620_aa|-|1991|3853 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MTMIKKKKFEIKIDRSRDDLLDFGKAMLKDRYLLKGEDYQDLFARVSSYYADSQEHADA
MYKYMSKLVFMPATPVLSNGGTNRGLPISCFNETKDSLEGIVDLWENIWLASRGGGGIG
SYWGNVRSINELVRGNGKTSIVPFLKVQDSMTLAISQGSRRGSSAVYLPMDHPEITEF
IDLRRTGGDVNRRALNIHHGVVIPDAFMEAVENNEEWKLISPHTKKVIESVSARELWSK

LLTTRIETGEPYLLFIDSVNNNIPEHHKKLGLKVKTSNLCAEITLPTGVDHLGNQRTAVC
CLSSLNVEYYQEWKDDAEFIPNIMRFLDNVLEDFIESAPESMSRAVYSAKRERSVGLGIM
GFHSFLQSQNVPIESVMSKVWNKKIFEHIEEAANASSVMLAEERGACLDAAEVGAKERFS
NKTSIAPTASIIICGNSSPGIEPYAANSFTQKTLSGSFTVTNKHLVKLLQDKGFNNEQV
WSSISTHEGSVQHLNFLTDEKDVFKTAYEIDQNWLIELAAERTPYISQSQSLNIFIPGN
VSKQYLHDIHFKAWKKKIKSLYYARSTSIQRADKVSHTVVQAQEMIDLEKKNNEPSKLA
KSALPPERIENNYDECLSCQ

>gene_99|GeneMark.hmm|263_aa|+|4233|5024 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MLEFINLFAKIIEFSHESLIVPLIIIGYIWKDKTFFHIGICLVLSMIFNAGLKATFQI
PLSPALGKEGFAPSPGHMQTSIVLYGFLYKFSKNTIIVSLVILLTLIAMSLIYFGYHNI
YDILGALFFGLMLIFGYVSIKSKMPESRFLAIIIFTTCCMLYIRLIYQISPHLWMAYYA
LFGLLVSEYFFDNKQIKLDAKSKIIATIFCFSSLFLTNILFALLPNALSFLQSLRWFLI
GFFIPFSVFLSYSIHCKGKAGDS

>gene_100|GeneMark.hmm|848_aa|-|5154|7700 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKTLLKLTWLTLALSLSGVMYAANNGQLNAATKHALRYLKSQGVKAKFSDFQFKDGV
LTSSVLRRLRKGSAVTRITNFKLQTSLSGNWSAPIFSAKLNPAQTTLVGLQNDVQILNTEIS
YEARMNLLSGDKDYNFVSNIKIDKFKDIDNNPLETGQAYYKYSSHDGEQIIDCKVQFGS
TTYLNITNLDNKNIQIEAKNIPLMFYKLVQKLSPEHGLVNFESYIKNGHVTEASLVLDL
AAETISEDLSFGNVALRGVDYQYSKEFPTISKMDINLDVKGGSLVFAIDRGYSSSILLYD
GVIKMDWLGAEKTVLFIKAGKGDVGLVDFISESTHAETSKANIDFRKLGAEAFIDIDV
KVPLKTSSVNIYNISADIQNVSLGIFKDSVHLKETTLSGRFDGDQVTIRGDGELNGFKSE
LDFVYNIEDESGTGIGAEVAVGAKDKLEFDHKLDIKTYFKSAKMSGEDQKIGFISLMGG
DSVVDVFHYTNKDSKGFINIESDISDLDLKLGIIHKKKNDKANLTVNGSFDDPTTGVFQ
FSITGENKLSMSGEIAMENEEFTIDIKELKHKKTDLGSKIISKGDLLSTELHGEALDLS
ADMMQLEKEQDDGGVVLKLSIKKVYLKDNIRLDDLEVDLECVAIQCTSGTISAMIGTKQ
IEIFVTTDNGKEKWLIRSGNAGASLRGFGAYDAMRSGALSIDLTTDREMVKSGEIPILS
GTFEIKRFVLGNTPTMARIVSFVSLPGMVNAILGNKDIVFSSMSGNFSEKNSILTIENTS
AKGPFVGFSLKGTVNIADRIMDINGHVTPSLYGVSSIVGAIPLIGRIFTGHKQQRGLISA
SYNIQDSY

>gene_101|GeneMark.hmm|433_aa|+|7879|9180 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKIAFIGTGYVGLVSGVMMSHLGHDVVCLDVDENKINKLKNKEAPIYEAGLDEYLAKYAN
SPALQFVLGYDATIQDTCDFVTVGTPPKEDGDADLSGIFDAVQNACKYVRSECIVLKS
TVPPGTCAQVREFMQNQGKTIHIVSNPEFLREGSAIKDFLEPDRIVIGAESEHAFEVMRQ
IYKPLTDAGVRLIETDLATSELIKYASNMF LANKIAFINEMADLCEVIGADISTLSTGVG
TDKRIGEAFLKAGPGFGGSCFPKDILALQQLSKKVDSDFLVLDVAVIKANSNRPGRMLKKI
SKAIGGDINGKKFAVLGLTYKAETDDLRSAPIDLINLLQEKGGHVAYDPEGMVNADKY
FRKLDCASSAMSAIEGADAIIIATEWEELKKIDLEQAKRVARKPVIIDLRNILCPKEVLS
KGFYYSIGRKNY

>gene_102|GeneMark.hmm|1149_aa|+|9198|12647 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence

MTNKFHFRVQSSYSMLESTIKIPQLVELTKNNWMGAVCLADRGNLFASLEFALEASKAG
VQPIHGAILNILFSNKGKDDFAEIVLIAKNDAGYKNLLKLASYTFTKNDKTCNHITFDD
LEKHNEGLIVLSAYTAGIIGKFLQNNLPSAKNTAKKLQQLFGDRFYFEIMRHGSEKEKR
IEDEYLQIANEFGIPLLATNQVLFSDVSMHDAHDVLLCISEGVVQEVQDRKRVSNNCYFK
STAEMIALFKDLPEAIENTVYLAQRCSIMAETRPPSLPKFSNGEISEEVLIRDQAKAGLE
EKLAQKIDKEHIKKADQAPLRKAYFERLEYELGIICRMDFSGYFLIVSDFIRWSKENGIA
VGPGRGSGAGSIVAWVLKITDLPIEFGLLFFERFLNPERVSMPDFDIDFCQERREEVISY
VRSKYGNERNVGGIITFGKLQAKAAIKDVARVLGLNYSTADYLTLPFNAVNPVTLSSQAI
ADVAELKGAARGKGLYNLEGDNELIKQVLSTALTLEGLQRHSSTHAAGVVIANQDMTQIV
PVYKDVNADMLISQYSMKYCELAGLVKFDLGLQTLTVITKTIKLEDSGVVLDIEKIPF
DDKTKFKMLANGLSTGVFQFESIGMKSSLRRLKPDNINDIIALGALYRPGPMDNIPTYIA
CKHGEQEVLDYHPLLESTLKDTYGVIIYQEQVMEIARKLAGYSAGTADLLRRAMGKKVKA
EMDAQEEIFVKGALANKVSESDAKSIFATVAKFAGYGFNKAHAAAYGVISYQTAYLKANF
PVEFLIAALNLDIDSSDKISIFLQEAKNANINVIAPDINESSGLFEIKNDNDNAKKSITF
ALGAIKSVTVNFGNAASAVRMEKGNFKSIIDFAERIDPKLLNKRLLESTIKAGCFDKLHP
NRNSLLQSVPKIMAYSAAYHLEQKSHQISLISVGSNGNDVLVDAEPLSASEIAYAEDVDM
GLFLKNHPLSGLASSLKKCSIKDTDYIKNELPQGSHKLLAGIIVKKDARMSKRGLFVTL
IISDPKGIFEVTIYNEDVFKNYAHLINVKPEVVIYCDILKDKGGLRTTALRFSSINDELQ
GIQYNLTLSPKKPQDVEKIMELLNSRISQDKSNSSISVLLPVEEEFVAKITMPPCFRLNE
EDAMKLSEF

>gene_103|GeneMark.hmm|300_aa|-|12830|13732 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MDIINPRVDLAFKKIFGVEENKDLLISLINSIVGKEDQVADVTLNPNPQNFRQDKLSI
LDIKARGIDGKRFNIEIQISDEADYDKRALFYWAKLYTEQLQVAEDYSELSKAIGIHILN
FTSIPSSERYHNTFHTEKTSGLYFKDELHTIELKKFTPDSKEDLSHIVAKVKNSLDM
WIAFLTRHDLKADNLPELNNKELKALNVLNVMNFTEERGAYEDHLKWL RVEANSLK
KAEAKGHEKGLEKGLDEGRKLEKIEMAKTMLVQGLDIKLISKISKLSIEEIEDLRSYEVT

>gene_104|GeneMark.hmm|52_aa|-|13810|13968 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
VILKTLLAGLRSSAGGAIKGLCKSAGWDEDTYLDYINSVFLMRLPWVALL

>gene_105|GeneMark.hmm|483_aa|-|13965|15416 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSVPPVRSIPLFIGRENERLGLAHKKRAPGLVVIKGRRRVVGKSRLINFFASGRVKNKL
WDFAGLAPQDGMDDQTQRDHFARQLAAHLKLPPTFQDWSDAFDHLSNHIKAGDIILLDE
ISWMGAKDPSFISKLKAWWDKQQLPIMVVFCGSVSSWIEENILKSTAFFGRINLTITLAP
LPIDEANKLLRASGFKGSDYDAYKLLSILGGIPWYLEQITPGQSADDLIKQLCFEKDSSL
VLEFDRIFHDLFNGKGVSYKKILDALKDGMKTLADIRTIIEFPHSGTLSSLMEHLIAGF
VQKQNLWSFKTTKPLKQSLYRICDPYMRFYLKLIEPQRNKIDLGAFQNTAIAQLPGFEAH
IGFQLEQLLLQNRSLLLKAIGINPADIVADGPFQSKTASKTGCQIDYLIQTTTKNLFIC
EFKFKRRELGLDITQLQEKANALKVPRGFATIPVLFHIGGVSSNVATDDYFYRIIDIAD
FLQ

>gene_106|GeneMark.hmm|340_aa|-|15558|16580 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence

MISLNKDQIKKLLDIIAFSDASSCLSRASDIVINNTDIGFSLDITGITHAEAEELIRQKAI
KELKNINNIGNINIVLTSSAPIKQGAKLGTKPGKSPSREKPKLHIDGVDQVIMVASGKGG
VGKSTISALLGSKLAADGMRVGIIDADIYGPSMPNIFNLGKPELDGNKMIPLKNHGISI
NSIGFLTAPSASISWRGPMASKALYQLLSLTKWGQLDYLIIDTPPGTGDHLSLLQNYII
DKVFMITTPQKISEIDVSRAISLYQKFNIPISGIIENMSYHEPISGKKIKLFSGSAGEE
ISKKHNPMLAQLPISPGLSTACDKGESLQPYAWLLDGVV

>gene_107|GeneMark.hmm|382_aa|+|16564|17712 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
LFKLILAIIFYKLTILVYEFSLFFTNLVLIIIMINKIYQFFSKSPWDDNGQEDNIFTQ
KRKPQFNFDNFQDFSPKLLIGLAALIAVWLASGIYEVKEGEQAIVIRFGKYHRSGEPE
LNYHFPNPIEKIIVAEVDKSNRLEIGYRSTGRARVGGAVSARDIASLMLTGDENIMEL
NIDVMWHIKDLSHYVFNISDPEDTVRAAAQSAIREVIASIDITSVLSNKKQAIADRMEVL
IQEILDQYESGVTIEQVKLLRAEPPKEVIAAYRDVQTAKADKENAINKAEAYQNDILPRA
RGESAKIVQAAEGYKVEVSKAKGDASRFNAVYKQYVLGKSVTKSRLYLETIEDILQDAS
ITIVGSGGVLPHMAINKDNLIK

>gene_108|GeneMark.hmm|287_aa|+|17722|18585 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MNMNKLYITIFAAFAALVLLAGSLFTVDQRQTAVVFQFGEAVRVIEEPGLNIKIPLVQNV
QYLDRRILNVVAEEKELTASDEKRIIVDAFAKYKIIDTVKFIKTVHTYAGANLRLNKILE
SSMRTVIGRFPLVTLTEQRSDLMLDIRDLVHRETEPFGIQVIDVRILKSDLPHENSEA
YNRMQTERYKEAKRIRAEGAEESARIKSKADKESQIILATAYMEAQKAKGQGDYEAARLY
NLAYSKDPEFYKFYRSLVAYKASLSKDSTQFILSPKSAFFKYLQIGK

>gene_109|GeneMark.hmm|491_aa|+|18589|20064 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MRYLRALFLILITLHFGAANGGALATAPVTTTPAPALSPAHSFADIVEPLMPTVVNVY
TVRYNEQLKNRKAAGLPEIFPFKFNFFEKYNVPFSFDDLYSRPEAMSLGSGFIIDEEGY
IITNDHVAGADEIYVKLTDNIEIPAKIVGTDAKTDLALLKIETKKKLPFAVFADSNRTR
IGDVVIAIGNPLGFGGTVTTGISSKGRDLGEDLVDDFIQTDAAINAGNSGGPLYNIEGK
VIGMNTSIADGGGGTNIGIGFAIPANTVQDIMKQLREKGIKRRGRNLVNIQEVTTTELAEA
LSLKDENGVLIVDVNIGGVGDKAGLQRGDVITKFNDDIVLDSRKLKIFVADTNIGEEIKL
TVIRGQNPVILTAKMVEFKKPSAAEIDSNVSTMQESGVTFSNLSPKLITKFLPPEESKGV
LVASMQAQEASNELKIGDLVMSIDQESINNIEQFKQIYDKMGKTGKKNVLLVKRIIRK
ESTMFAAFPIK

>gene_110|GeneMark.hmm|279_aa|+|20086|20925 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MTEEINAMEEEANEVSSRDEISGRDDIAVLSFYFVNME SPEIMQQKILLAKKKCIKGTV
LVAHEGFNGSISGEEELHVLIAEIAKITGADDVSSKVNYCAEQPFSKMKVKIKKEIVAL
KFGDLVDENLKGDIYESADWSEFIKRSVTVTRNDYEVKVGTFKGAIDPKTEVFSQMP
QWTKDNMGLLKDKKVAMFCTGGIRCEKSTALLKDLGVSEVYHLKGGILQYLEDTKNESGA
WQGEFCVFDDRGAVSANLSPSDGFVWVGEQTAKGVSSSK

>gene_111|GeneMark.hmm|204_aa|+|20922|21536 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence

MILQREKICAIISDNSIISAIACENTTCQIDVVSSDYESFIDSKNKLDLLILDKDIYPHK
LPLHRINCLINLTDQKFSDEIRIAKPLKLYDLLGIIASNMREEYFFCCINHEWIYHERR
ARFISASREISLTDKENALVARLLSDKNFSAKKDSLKTSWNYHQDSESTTVDTHTLYKLLK
QKLPAGMVEIRQSECLFKFEKVVF

>gene_112|GeneMark.hmm|58_aa|-|21736|21912 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
VEYTDPKVPEEKKEKELAQVMQDHMSKEDRVKFMKTVKDSYQEEAVTKRNTQIASQQIC

>gene_113|GeneMark.hmm|244_aa|-|22174|22908 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MIDYTKSFSAKESKGFDAGLRSYMLKIYNYMTLALLTGAMAFGTLNFPPLMNIMYNIGA
NGEFMGVSTAGMVIITFSPILIALYFFMGMGKMSVQSSRALFWVYAALMGMSLSHLGLVYT
GQSLTRTFFICSAVFGSVSIYGYTTKKDLTSMGSFLMMGLIGLIVVSVINIFLQSPAIEF
ATSTFIGVAVFIGLTAWDTQKPKAMYYASGGGEMGQKMAIRGAFTLYLDFINFLYLLRFF
GDRR

>gene_114|GeneMark.hmm|288_aa|-|22963|23829 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MPNKTSQNKLIALFRLTRFHLPTGYLLAFFPAAFGLLLAYEETPNLNYLPLFFVGSILAR
SAGCVINDILDKDIDRLVARTQDRPIASGIITVTQAVIFLVLLFTGCLAILLSITSIA
LGIIAFLMILLYPIMKRITYFPQAFGLVTFNMGLIGYAAVKDEVSYESMLLYIACGFWT
FGYDTIYAFMDIKDDKKIGVWSSAIFEDKPYKLIAGFYVAFFVLFSIATQDSFGMYSL
CTISFAVMATLWGASLDVKDPKNCLARFKANNYLGFLLFFVMLENL

>gene_115|GeneMark.hmm|841_aa|+|23891|26416 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MTDFPKKYKFNDHEKKWQAFWQEQGIYLWDKSEARDNTFVVDTPPPTVSGQLHIGHVYSY
THTDFIVRYKRMKGLNIFYPMGFDDNGLPTERLVEKKKKVKASQMKREEFVAICEDVVE
EEEKFRDLFNSIALSVDWNIEFRTISKTCKISQMSFLDLMNKEEIYRDSQPMLWDPVDQ
TALAQADIEDQEKTTFMNDIQFTTEDGDKITIATTRPELLAACVSVFFHPDDARYNKL
KMAISPLFGVRVPLLADDMVDPEKGTGLVMCCTFGDQTDILWWRKHKLPKTIIFTKWGTI
DGITFDDTCINKQQAQAEKFGAEITGLKIKAAAREKMIDILKAEGLLLAQTERTQTVKCAERS
GAPLEILTTPQWFIVKVAHKEALAKRSDENWYPQSMKVKLDKWIEGVALDWCSISRQRYF
GVPFPVWYSKRPGEEGKPIFAKLEQLPIDPALDLPEGYLRDEVEADKDVMDTWSTSSVSP
QLSSHGIADGFMVDQKRHENLFPADLRPQAHEILRTWGYTMLKSHLHEGTLPWKNIMIS
GWCLAEDKSKMSKSGNIIAPETLLEQHGS DVIRYWAASSRLGADTAYSEDVMKNGKRLV
NKLWNAAKFVSQHFDPKIPDSKNLELGALKGKISCDFDKYFLLKSELVQEASADFENYE
YALAMAKTEQFFWSLFCDNYLEITKS RAYDEESENPEGALSARLALYHGLKVLKLFAPF
VPHITEELHQLLYSKESIHRHSWPKLDINFDEFAPHESESLIEVLDLVRKIKAKDNL
KAPIEYIEIAGKLSDELVSDLNVTSSAKIKFVDRSSNAQELGSDKLNKINVKYDESGA
A

>gene_116|GeneMark.hmm|61_aa|-|26900|27085 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
LFIKLAKTPGAQSVIVLIPMPAQMPTMMMISKNAEITISGLKFISASAFKVKPKILKIR
S

>gene_117|GeneMark.hmm|926_aa|-|27076|29856 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MEVKMTKQMDVSKDRDNRKRPVEVLGNVEQPPSKKIKRDIDEMIKLYKTAFAYRDKPEK
KVYEILEKMHIRDLYQLNPVMTTEMYSVLAIKVSNYETKNHCLAKIKVGLSTIDPRALDA
KNMLKVALLLERCIIQLSTHFNDSDNLRRTQLLDEYSALMRNLEPGALNDQPTLVIAQY
GTLAQCYALLNARESULLVCEQLFNLCREAMVKISVVPESAWLLRSVYLVRALSTCESS
GRKKLVDDNIETVIQILSFVSAFDRIDEKTALMSLEIINKLMIICSKTNAIISSTYSSNF
LEREFAVIHF AEALTSIIHQ LADKANTSRVLT KTSDVMHAMFGHVMFLEVDHGVIAQYVN
CWQQSLQKGTLDNPGSILDQVSSAINTALRSNQTVSIEPLLDLAWLLIQTTASNKITAGE
TLYTLYSYLDMYLQAGQTEIFLNHFTAMLQMHIIQSVQTSKDYGLNAQFETFMSLCHLQN
DRNMLLPLLQQLDEAFVEKLTNNPTQRLSHYFITS AIQYWNLGQHELAFGHLSRAMDVIE
ITNARNEKVF CIFFLEFCRLYSIQSGDHMFSDKFNKYHEIYTKLPARERQADLRTQVNDI
LAIINADTV DASSPLLSMRYEDNGSIIIDRALIETVSSFIKFKHNKGISFNHAPDHSRYA
TLQDISANDREEIQRIAREMHRQIDDTLCVLNQSSEQWQEFAQCARWICPQLWVALRVN
DANQLEWGRASWRIQVIFEQLITYSMMNHDI TGLKKISDILFTRLTKNQWKNNLSLECL
EHTIDAFIFCQEGMEARCIQTIVQTPQLADERIDKLTIKLLALMPLSRPDEEDVQLLLL
PQAVREYEILN NFLDRSDVLCVEDRQVNNALVTQYGHISHMLYQSLLSILLHDPTLPSE
ISYILADYTYDSDGYNLAGALPSVCL

>gene_118|GeneMark.hmm|287_aa|-|30539|31402 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MNNLQAKLDQLKWLKSSGVEYFCSTEKDSKNSLISELISNSSDKVEINEPKPVKSTNSVQ
STKPLKSVIQNI MKETKTNTNPN SNILAAARALADKAENLAQLKEYVENFEGCALKKFAAN
TVFADGVQDAKILLIGEAPGATEDEQGIPFCGESGKLLDKMLASIGICRTKNAYITNTIF
WRPPANRRPTTEEIDICKPFVEKHIALMKPKLIILVGGTATASLLGKSEGISHIRKNSYS
YTNQYISDPIHTTALFHPAYLLRQPMQKKTWYDLLKIKDLLKGLV

>gene_119|GeneMark.hmm|322_aa|+|31424|32392 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSKYTYTIPENLNGERVDKALSTLCQETSRSQIQKAIKNEKLT LNDQIISNLSARVKEND
QVEIIIEITSELL PANIPLDIVYEDDDMLVINKSSNMTVHPGAGAHADTLVNALLYHT
NHLSDVGGVEVRPGIVHRLDKTTSGLMVVAKNNQAHVHLAAQIESRELTRMYKALVWGLIK
PTSGTIDKPIGRSRADRRKMSTFKTGKHAVTHYVTKKILHGGLFSFVECKLETGRTHQI
RVHLSHMGHSIVGDQTYGNNSRKISGCPESLRPALLAMDHQALHSFYISFIHPKSGDRME
FTKEIPLDYNKLI ESILNSQST

>gene_120|GeneMark.hmm|247_aa|+|32405|33148 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MHKCKIFLVVIFSLILSSCEERDENVWVVGTSADNPPY EYMH DGRITGFDIDL MKQIAG
HLGKDIKFKNMDFHGLIAALT TKNLDMIISGLSITPERLRRVDFSVPYTDAKIAVLYYTR
DRFQKTSDLTGKAIGAQLGTVWVSLIAHDLSSQHRFSIKSLANNLLLVEELKNKQLDAMIL
EESQAARFISIYPQFSSFNLEQYSSAFAVALQKKS PHTKNINHAIKALRSNGTIEALARK
WGIIGAE

>gene_121|GeneMark.hmm|157_aa|+|33135|33608 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence

LVQNEEFKLA VGK FPTGVT VITTNQGS KLYGFTANSFASVSLEPHLISFCLNKEAYSFDA
FSDAEYFSISILSSAQADISGHFARHSADKFKGV DYE L GKHSNSPLIQGAICFIECKKYN
IFECGDHSIFIGEVIKTQIDEDKSPLLYFSKSYLEIK

>gene_122|GeneMark.hmm|247_aa|+|33605|34348 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSIIKIGLSGANGRMGRAIQNLLLDKTDK FELTAKITSSSSELDSLKACLDSDIIDFSS
SAILPSLVKAAAQHGA KLVVGTGHAQSHFADLKD LAKTNAILYASNTSIGANLIAM LAA
KSAKILKGYDVEIIEAHHKHKKDAPSGTALMIGQKIADAMNINFKDNAVFD RASKGKRID
GEIGFASIRGGGIFGENEIMFAADDELVSISCRALSRDAFASGALIAAEWLSAQKAGFY S
MEDVLEF

>gene_123|GeneMark.hmm|1027_aa|-|34821|37904 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKRALIILLIFQSQSAYASFWDSIGRCLKDPCNCGEKPITEYWGKQVIRPSVKKNKNCP
PWDKYDGRSRYNCLMKKAMPGT FIESYKNL CGEKSPSSSYKTPRIRVRGQQCNALKCWST
STSLDWDGDCVTLAGRYGLPLYRMCARIALPANTQTTPSIKADPGYTDGKHLDSKGKTQD
DKYPVGKDGAPIKLSRPKLC LYLDP AFLSLESGLQADVMDIDPNWQPFHKTEAVHPHIIQI
IKTFFKVFKDSASGLASISDLTASLGSSSDIATQSLSKAF EFLGTLIGIFGNAIEKLLD
EVGAINRAVSSTKYGCVELPLGPMPPPFCSQISYFQLATLQKICQLDKDGKYEKSTNSSK
CLVSAVRNNFVRNSVRVGYDHLVPLCKPGESPSHGTC AEINN LASTLTNAKALHEITKKR
DIIKHCSAASSGELCAQTSIKHRCSVTEHGCRDGFRI VYAKKIGHNITPEPYFYDDL PNC
TNNSPSACQVIWGIN TAEFADISLVFPKVSNSANIVSAIKHSFRLFDYGLD TDGSTPPKE
NKFHATIVQQSHENQDYNFVQEPNQICLFGNKRMIDCTERVPAPQPLLS CNNVFGTNCKS
SYFSPQATITYRSDDGRERSKQDVTSTLVVPETVYQSGGNRKAVAYLAGTQFEALV TDDN
YAMNPFMNAPPLKDPTSILGTYLDNILPISLNPPYARNPYAVYMSGLEYISNKYHLGGKY
ICVRNKNMRQCPDDIHM CVLAKLANKNTVKCSIFYKSTENHPGLSMCSPDQARNPSCGVI
DFMPKISGGRVNIKKCADGALCYESDAELCTVGM SAAERSIPGAQFGETLATNQHYNPF I
KDARGIVRIRKYNQNSLRRLRKT LRELGACTLISPDRQDTCSAQNNFSQDNGFASWTSV
KVGEISTGTCKAGMKLFNPANPLKRLCIPVSE PAPP RFALEPLYRMKGTPPKKEYTNTKC
VFDGCKVEGGFNAYWPAVKSGELSLGR CNLGYRVSTPQRRCVQKSPGVFVLSFPDRRG
YCDRLGK

>gene_124|GeneMark.hmm|818_aa|-|37935|40391 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSSKASDNSLYNDSAADFVPVACHYDAHTLLTKNGELLQTIQIHGLLSEKISKNLFNLR E
VVRNSISSTIECSKYAFWIHTVREKADLDDPAEYPNFFSANVHDIWRRKNYWHDKFVNKL
YITIVHKGTELKLNLSNFINSFFQRRISSEESLEQACGELHKT VDSILSGLSEYGAE
KLGTLIEGEECYSPISFYKHIMHLSNKDSTMPTQDISSVLASHQYVAQSDRMEVIGGGE
QKQVAIISIKEYQEISSDALDKFMQTPVEM IATEIFYFVKRSDVVADFTVQNDTLNISGD
SELRKWKGLDKIVDAEDNGIRFCHQQISFMVIGEDKETLDRDAIRASESLAQIGIVHIRE
DINLEKLFWSQLPANFSFLSRMKPTILDNTAALASLHNFP MGNQYNPWGRATLLRTEKG
TPYFMNFHDQTGKGSTCIFGNRKSGR TLLN FLLSEMDKYRPSIMYITDDMDSGLYIKAK
EGRWFQREKNIINPLICEDTPENRVFMLEFFKIISKHYFDPLTNAEMLLL TLTSETVFTL
PGQERSLAELLKSLKESDKGGKTLKKRLAAYAENGIYHGVFEREEAINIEEGEIVAMNLQ
NFDAAAYSKAHYPKEKRLIEQFEYDLNAMRAVKAGIVLAAQNIMKVIGDKPKIFVMDNLA
EIINLKHYSFLMSTLMNMMHAMNGIFVSTVNTDKLYSLYGT KLTQNANSKTSQDWIRELN

TSFFLPSELSVAGLEEILDLSAELRKLARLTPASRMFLIRQDGTITSELSIGGLIGLT
SLLCSGEQERELYREIKNEGNDTTEKWVQALCEACEN

>gene_125|GeneMark.hmm|284_aa|-|40655|41509 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSKNQTIIKKVKKIQQGGGHHGGAWKVAYADFTAMMAFFLLLWLVSISDKATLQGVAQY
FTPTESISDKAGLGFGGGTDNLTGQLSEYAAASSLIYGSPSKGHRVDAAKAPTSMSDV
EKEHFISIMQSIQKSTELQKYSENIHIDLTNEGLRIQIMSDNRPMFKPDTTELQPYMLK
IIDIIIGKMVSTQPNYISITGHTASVPEDAEDDIDFWYISSERANKIRQYLVENLINKNQV
VKLVGKSDREPFDPKDPFSVRNIRVGITLLNNSVVSAYQKSAPR

>gene_126|GeneMark.hmm|289_aa|-|41519|42388 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MFYIIGVVIVFGSVLGGYTMHGGNLAVLNQPNVVIIVGSAIGSVVIGFPMSYLVQSMKG
MKHFFTAMPYNKKDYMELELLFSFNTFKLMKIKGMLEIESHIESPEESELFKLAPVLKGDH
FILDFMADNLRMTMGMDNPYQFEDVMDREIDLYKEHTSVPGDLFTNLGDAFPALGIVAA
VLGVITTMGSIMEPPDVLGALIGAALVGTFLGILVAYGFASPMGHFLHKYGAYQVKFADC
AKVGFVSYLNGNPPIIVIEFMRKAIPHYRPSFEELDVYINENAMKMMG

>gene_127|GeneMark.hmm|158_aa|-|42429|42905 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
LSESNFNNKFMRAALIEAEKAYAAGEIPVGCVIVCKDTGQIIARAHNIMQKNNNPNMHA
EIIAINHACGQLGNKSLSNCDLYVTLEPCTMCASAINARLACLYYGASDPKQGAVEHGV
R FYTSNSCFHRPEIYYGLYCEESEELMKGFFSQRKSKI

>gene_128|GeneMark.hmm|299_aa|-|42892|43791 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MFKLDENDLIRSASYASVIAIIIMVVKMYGWLATDSQSILASLVDSFLDISSSLINLIA
IRVSLMPADDTYRFGYDKFQDLAIFSQSIFFFASSLFTMFSSGKALYIGAVPANVALGAN
VMYICIFLTFILVLYQSYVIRHTNSRIIAADKLHYFSDFLTNIAIVISLYLSATFWYLDA
LAGIGVSFYIMFVSYQLFRDAIHNLADEEFETEDRDRIIKIISFSETKGIHELKTRSAG
SKPFIQFHLELDGSLSLLEAHYISDRISDALIKEFPKAEITIHQDPEGFEHEVNYVERI

>gene_129|GeneMark.hmm|155_aa|+|43894|44361 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKSISKLLIFTIVSLQSCQNMNKQGGGTLIGGAAGALLGAQFGKGSGLVAVGIGALA
GALVGGQVQKSMDEYDKKLENSRQALEFSPSGRPVEWKNPDSGNRGSITPTKTFRERG
RYCREYTQEIVVGGQKQKAYGKACRQPDGNWQIIK

>gene_130|GeneMark.hmm|232_aa|+|44567|45265 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MNTLVEFKLSKSFDKKILIDNVSFKLNKGEITTLIGQNGAGKTTLAKIILGLEGYENGE
VIIQKGLKIGYVPQKLDGFGNMPITSSGLEILAPKYSKSDFSKFAEFINLDSIRKKDIS
EISGGQLQKLIIAATLLSRPDIIILDEPTQFLDVASQQEFYKIIARLKVLDLGLTFVMISH
DLFTVMKNSDQVICLNKHVCCSGKPAEIDSNSDFKNALSEIGVYIHNHDKH

>gene_131|GeneMark.hmm|296_aa|+|45272|46162 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MLENTIEYQINFWQAIAAHYIFPEGGFATTKMSGADTNLLILTKQDLQTLKSILPEVTS
FFEKHQVPWGINIVDNPHSAEISFLEEKHFSKIYQHQMETKLASLPQTPGSPLVREVG
DGDLEMLKDWTKPVVSGFKIQGSKDADLYYKLNIEALSREDNILKHFVLYDGAQPLSSAT
LSIHGDVARLDNVSTMVEAQRKGNRGRALVEYCISKARALGCKYIIFESSERGINLYRKM
G FKEVAMSCVYSASKSSEFSANDPSACSASDSLVCANESSESSASNPLPRNGSKSS

>gene_132|GeneMark.hmm|255_aa|+|46159|46926 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MIIILAISVLIGLIFAPLGCLVLWKRYVYFGDGLAHASMLAAALSLLAGIPIFYAGILNT
LLFALLIFKLKHKSGNNAIGLTSSIMLSLALILSYIFPGEFNFSSLLFGDIVAATGDDV
LILCALLASVLVFLALTYRDLILILSKDVARSKNIKVQALELVFLSILSFAVLSTIKIV
GALLVTSLILIPAMTARIVSTSPMMMIGFAIFFAQLMNFAGIMLSFYADIPFAPIIILCG
GGIYVMVLLWKNCR

>gene_133|GeneMark.hmm|203_aa|-|46938|47549 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSDFLTFLTGVGIGAGLIAIGAQNFAVLKKGITKSHIFIVAITSVIDAVLIIFGICGL
GDFISENEQLLQITKYGGAVFLFYGARFSYSSYLTHSLADEAQSKAGDLKKTILTLA
LSELLNPHVYLDTIVLLGSIGAQMEEGERLYFALGAVCASFMWFFSLAYGAGHLSRFFKSS
ASWKILDACIGVIMWSIAVSLFV

>gene_134|GeneMark.hmm|446_aa|-|47652|48992 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKNFALIILLPLFLVSCDNFGTTRVKNLIDLTPRLEVESAQKIKFSNARELLLDKAKS
FKLAKREIIPAIKGVMSVSDGKGYVSAFSLKEQKILWSSDIKAGELDRSFSAGGVLF
SDDKLYVTNSSRFLVILDAKTGHEIIRKEFPDILRAKPIMATDRLLLVQTISNQLLAYDI
VSSKLVWLHEGGIETISTRSAAPKVYNGHAIVSYSSGEVVYLDVTNGKEKWVYNLSTID
DIGFPSFDPSVIVTEPIIHKNVYFATSNAKLVKLDLSNGAPAWIRDADDIQSMSLINNT
LFVTNARQAAALSSHNGKVLWVGNMISEKDRSGRPKTAFQAPFVSKTPNGFAVNIIA
SNGELYQFATGLPGTGLPGADLSGIDKSGTDKSGTDKSGTGKPAHSVPGQLPVQPKI
VKGVMYHWISCCNGKMYLMTNRKVQY

>gene_135|GeneMark.hmm|216_aa|-|49077|49727 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
VADLLDEVLDARYEKNLLFRKFLPFVIAVSVIIAISIASYGWYQNKISKHNREIGDVF
VSIMSTKHDKKSSMVDLHELVASGDNKQJELAEKLAGELINSKNKKPALEKLEKIISN
KGYEVTTSFARLLWVGVLVLDQKKVSDANKIKAIDYLQYFSKDTQVFFASATLMKALFYK
KNAQNDLAIEYANKLLQLKDASLVIREQARAILANI

>gene_136|GeneMark.hmm|234_aa|-|49775|50479 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MIFNRKMTRKILLICIAFSAGGAIADSKSYGPIIHRQSKQIQELKDRISGLENLIKDLQ
EDLIQSGIVTKQFSANLEGAGSKDFIQPATLPARKNFFTDKENSQPKDRSDYDYALAAL
KDSKYLDAEGQFASFIRNYPTHRLOSNATFWYAETFYRRGLFSKAAINYLRYSKYPKGA
KAPDALLKLAYSASLNKGKEACSMKKLDLEFPKRPIGSIKRTMEAKTKFLCN

>gene_137|GeneMark.hmm|484_aa|-|50533|51987 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
VNIVANIILYRYFMIEEVLKQAITQNLVADSYKKHIWNHRKPAMAQVQQTSSQGFLRNK
EFIEFASASLEFLRNTNADISIFNKFGTQFFSNHQKMKVKEKNDHLFTHEKILLYLDEY
FLKEYTPDNAFAEAYMGRTVSSLIIPRAILTEKNDIKYEKSFITTYVPIINDSNGNFSVDG
VMKITRDITNEWTVIYLERRIFSAFLIVFLVFFAIVLYNTSRAQRIINKQIETNKALVE
EKAKAEMENSAKTDFLANISHELRTPLNAIIGFSEILAQTYGKIANDQYEDYVGDINAS
GKHLGIVINDILDLSKASANKLTIEEAELDLSKMLLSSMRVFKPRADKANIQLVEQIPSQ
HIVIIADQKRLKQALLNLLSNAVKFTPAGGVVTLVSKKDVIKKLVYITVEDTGIGMNDKD
IPKALAPFGQVDNSTRKYDGTGLGLPLTKKLVLMNGSFDLQSIPEGTKITITFKYSG
IIEI

>gene_138|GeneMark.hmm|250_aa|-|52252|53004 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKFVKSVKTIFFIAILSITSISFASENYASANEMTEENDYDANYEDTTALLFKIRGFYM
RAPSKLESPLKPKQAGTSAPSFIAQNGFGFDTSTTYFFNNNLAAEVSGLARLQLKNSLVN
EFAKAFGTDPASSSKNNIFLVPLAITAQYHIAPFGAIRPYVGAGYHATYMHLSKAMKVS
SGHGAVLQAGVDIAFQDDTFFTLDIKQYFLRSNLTFFKDFLSPGIASAASVKSrvKWDPL
VISLGFGFKL

>gene_139|GeneMark.hmm|292_aa|+|53254|54132 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
METKLSRYFIGVSWFILSLVSSSINDVLAKYLGMRLLHSYEITCFRFAFGTLTLLPFIMYY
GTSTLKTSRPTVHFFRGLLLFLGIAGWYGLTLAPVTTATIVTLTMPVFLVVLGVFFLSE
NIIWQRWLVTVAFCGLVVALNPNADDFNPEVLIFVFAALAFSSLDIVNKIFVVKESMIS
MLFYSAIITALLAVPFAYQYWITPTEELALLFVLGASANLILFLLKAFVADATALAP
YRYIELLISATIAYIVFTEIPAESTVWGALIVIPSTLFIIYSEKQELSKKTN

>gene_140|GeneMark.hmm|425_aa|+|54197|55474 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MNRKRLITSGVANSFEWYDYALIGNFAPILGKKFFPDADPSAALLQVFLVFAVGYLMRP
IGGVFFGIIGDKFGRKSALSTAIMCMAVPTAAIGFLPTYETLGISATILMVIFRMLQGLS
MGGALTGSIAFVIEHSPKEHRGALGSVAMSSICIGILLGSLVAFATQNLFTTEQFEDWAW
RVPFIIGIAVYFAGIYIKNNTKETPLFEEAKAHCEIAKTPLRTAFRYHWFDMLMSFFINA
TGSVIFYIEAIYLASYLKINRGFPESDVGILITCCYIIMIFVTLFAGWLSKIGRRKIFI
LNLLFIIAVIPFLMEVMENGTFTAVIGAQVIIAIIAATYIGPEPALQAEFYPTSIRNTAL
SISYNTGTSVFGGTAPYIMESLVQNTNTITSSVYIITCAFVSLAALYFYKDKSSYDRAK
AIDDT

>gene_141|GeneMark.hmm|1024_aa|+|55519|58593 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MTAKIFVTKLVDEKEVVKLLPLSRFHKAEQRLVESHGKKLVEKIKSDRHFSIEEFLHRY
SLSDAEGVAVLSLAESLLRIPDNKVGMEISDKLSNKHWEYSYLFKRTKSFKTFLAAFGLY
FSGKFTDLVKSEGIISNLFERAGRRTFINIKSSILFSLQEFVFAENMEEAIEKSSGRKY
AGNDFSFLLGESSRTRAQATIIYYREYKRAIKLISEAFPYNGEKLEERPNSVKTALHQ
RFELEKFDDEKEFLPQIIDLVCEAKNNLTITFDAEESSRIDVYLLFLTKLIRHPSFKD

YDGISFVVQSYQTRCYEIVEYILSLAKELGKKIPIRLVKGAYWDTEIKHAQELGLEFYFPV
FTRKEYTDMAYIACARKILENDEFLYPQFATHNALTAASIIELAGDKEYEFQKLFMGMA
LHSELANHRKVRIYAPVGN TKDLLAYLMRRMLENGASANFVSKVNSTEISMNELVHNVSD
NALHLLDLNKNITLPENIYPNRKNAMGYDLGYKTNYDYIQSKVASYFDNIYVNGSIIKGG
EIIHTKRGREKFCPAKKAKEKFSSISSSTESEIKEAIDVAKSAFDGWSAVETRRRAQIEN
IAYSLEENKFELYALLIKEGGKSIHDAINEVIEAIDFCRYASQAQIIMQEKKLPGPTGE
SNVLSMHGRGVFLCVSPWNFPLAIFIGQIVAALAAGNSVVAKPSGNTPVVANFTVKLMHK
AGIPTSVLQLIITGGSTFNKYAISDERIAGVAFTGSCQVAKEINRMLANRESGIVPFIAE
TGGQNAMIVDSSALLEQVTDDVLTSAFYSAGQRCSALRMLYVQEEIYNDLLEMIGKATES
IKIGDTSDFSIDTGAVINEAAKQKLEEHVKNMRGKGFKIFEHPLGKLEDGHYFYPHIIE
VKSINDIPDENFGAILHIAKYKSKHLDKVIDDINNYGFGLTFGIHSRIEEKIEYIRSKVK
MGNIYANRSITGAKVESQPFGGEGKSGTGFKAGGANYLLRFMTERTTTIDMTAFGGNVEL
LSQN

>gene_142|GeneMark.hmm|950_aa|+|58976|61828 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MFGIEVGVDMIAIVVVFLINLGVGLYGGVKNIKDYALGGRNFSTATLTATVIASWIGG
DNFSLYLSESYTEGLYIYLSSFAALGSFLIIGYVYAPRMGEFLGDLSIAESMGKLYGKHA
RLMTSLVGFILITMVS LQFKIASTLLSHLFGVSGVYTTIASGVIVILYSSLGGVKS VNF
TDIVQFFTFGTIIPVIALIVWSGVDDTETILHTIENNPLFDINLLLDYNTPRFWSFLTLM
LLFLIPGFGPSTFQRMSMSRDTQQMRKSFYAAVAVMTVQLLISWISILSKEPNLDSA
NLFAYILEEYSYTGKGFIVGVLTMSMSTADSHLNSGAVMFSYDIANTLNLIKKGQELL
VSRISTVVIGSIALFLAIKFDNLFDFIFGYSFYMPVVTAPFTLAVLGFRTTSRSALAGM
ISGFLVALGWMFLDTEVDSVIPGLLANIVVMFLYHYLFKQPGGWTKKHS AKTTCSMKQCF
KNYLCKIKEFDVLAYCKQNLPKNESLYIVFAVFAIVSIFSTSYSIPTEIRNQYPSLIHGL
YFSTLVVAVSFLT FPMYKPLCSKNVLSILWAFGLFYILVFVVGLLVIISNFGQLQLMMF
ILSIMVLSLLTRWQMALFLMVTGVISAIQFFKYAGVENFTSDFGSLEFKVTYVMLLIGS
ILIAFFKPKQEHLEQTEHKVGTLETEATTKDGKITILNKEVGHYSERVSDQAKEIERLGA
TAQKILNNVNHELRLPVGVMNFAEMLRDGLGKFSDEQLKMISEEVYTN SNRLSSMILNM
LDLATLNAKKIELKKEKVNFSKLVHERLQNCRDIIAQDKKALKFHLNVEDDLMVFADINY
IRQMIDNLVINAINFSEKGTIAISVDREKYFVSFAIRDEGKGIPKTEIYDIFTPFKMGSN
TESKAEGRGVGLALCKSVIEAHGGEISAESRPIGALFRVFLPYGEVKEGK

>gene_143|GeneMark.hmm|176_aa|+|62018|62548 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MTKLRVLTVPDPILRQKALPVRSDDEILKLMDDMLEVMYDGGIGLAANQVGLSKRVLVV
DIRENSYDEEVENADLYPLCIANPEIIESSEEMEELGCLSLPDQRIMVIRPVS IKLRY
LDRDNKQQELFADGLLARVIQHEDHLDGKLLVDYLSKMKKDIAMRKLTKLKKISA

>gene_144|GeneMark.hmm|313_aa|+|62586|63527 >NVVL01000002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MGTDEFVPTLEYLANLKDPN DKYSYRAHRISGVFTPPPKPKGRGMKLT KSPVHEAALA
HEIPVYNHTSLKTYAVAELIDFIDADVIIIVAAAGLIVPKNLSAKKYGSLNIHPSSLPKY
RGAAPIQRTIMAGESISGISIIQMDEGVDTGDVILHEPVAFDARDNFKQTYDKCARISAV
LMAKVLSEIDTLPRVKQPEEGVSYAPKLTKEEGQINWNDDSFKIDCMVRGMNPWPGVYFH
HEGKMIKILSAIYNKSDHYAPGQIINDDFEVACGSGTLRIESLKPEGKPEMSAKDYLRG
AVSMKSGTILSSK

>gene_145|GeneMark.hmm|340_aa|+|63528|64550 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MQKTLQISKTTMKKTALSGIQTSGHLHLGNLGSIKNWLSMQDEYDCYFFLADLHSITVD
ISPEALRASTMNSAAIYLASGIDPKKSTIFKQSSVKEHSELAWMLNCITPIGWLKRMTQF
KDKAGKKQDSASTGLFTYPILMAADILLYNADVVPVGGDDQKHLELARDIAGALNRKFGQ
EVLKVPEPMIQGAATRVMSLRDGTTKMSKSESEASRINLTDSADVIMKKLKKSKTDSIA
EITYNKADRPEVANLINIFSALTEQSKEAILGEYEGKGF AEFKTDLAEVIIAKLAPINAE
YQRIMQDPAYINQTLLEDGAARARSVARRTCDAVAQGFGLV

>gene_146|GeneMark.hmm|292_aa|-|65068|65946 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKNAAVPYDSIYRMNSNLSLLGNFRPLNLDLTSLDSTKQYKELGQRVLQHSIMDSL
LEVYKILGYEDWEAARGRLSSVPIGLRALEEIQHKDNAVTPEQHPMLCASILRKASNIA
GDCGKTKSSLDVDSPLIPRVDAGVNNIMNAYKDEVLQMMVSMFSSEELQQAMGNIFFKAF
GGEEVSGNNLVSFANPVALLKAQGCKVFAHQHEYDSWIVEQQVLEAAQQQALEAAQALEA
AQQALEAQQALEAAQQALVAPPEQEQEQLLGLSGVSGVSGVLAWWYGDDA

>gene_147|GeneMark.hmm|424_aa|+|66154|67428 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MALFINFIPILLFVGIFFGSLYFSFMGVDNAFYQVPPTAAILPSIIVAWLMNRNLEKGA
MPSFLD GARHPDIIMCIIFLLAGALSSVTQAIGSVQSTVNFALSIINPEYLLIGFFIVS
ALISTAIGTSLGTVAALSSLMVELATKGAFSVEMGAATLVGGAIIFGDNL SVISD TTIASV
TSQGADLKEKLNKLVKALPAAAVTIMIMLSIGGEVNITEAGGDYSLILIPYIVLITLA
VMGISVFAVLI ALALAGAIGIYADYSLIAYSQDISAGFHMHEIMLLAILVGGLSGLS
NHKAKAIVEALTKLLPKDAGRKSAELLI AFMVSVFDALLALNTVAIIFCGEFAKEISLKY
KIKPHESAVWLDVFCVQGIIPYGAQILLVCAIAEISPLVVIGKVYYCYVLAGVTLSFI
LLRK

>gene_148|GeneMark.hmm|392_aa|+|67602|68780 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSKIRKITQRFSATFPNATSLIKPPLPLFERGPWEHLTHAGVPHGQFWSQDYVGLNTHS
KMHPLKWAFLRGDRKDARELLASGENPNIPAAQQTPLHIACEIGDVEMVHAALAAGADV
NAQDAKLNTPLLIAFRYPNYHILKTLLEARADPFYKGEHYQTFHAWAASASSLGAGEFS
IIMELIQNLGTDLAAQYVNAVDFGRTPMHGASMAGNTEAACQLAEIGGYIDITDRGGR
TPTHMAAYNLHLKTIKALAQLGATHNPLD TDGKHPIYAVLLRLMQDHSKEDLKQAEIIR
MLAPGDDINAITAGKTYLQRATEMQNLLL VKALLELGADPSILSNDGWSWSDYFFGESVTP
TETATKTGNIAILLALQEAQETGLSGD TDGDS

>gene_149|GeneMark.hmm|114_aa|+|68975|69319 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MARVTVEDCVEKIPNRFELVVLASRRTKDIAAGFPLTIDRDNDKNPVVSLREIAADKIDI
DLLREKQIANLQKNNQVDDSSKENLYAQTKESDEEGLDLEESDIFSDVALDED

>gene_150|GeneMark.hmm|149_aa|-|69427|69876 >NVVL01000002.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MKNRPNIRIKQLSFWNVWLWMAYLVIRCRVYVGEFKRPLFREYSSLDLGADHFVLLKGNK

VIGIARIYKQEMVEFGRIAIRPSSRGQYGKTFIDLLISEVKDRDKVRIISLFAADHRL
VKFYRHFDLENGEVYFGMLPFMNMIFL

>gene_151|GeneMark.hmm|992_aa|-|69873|72851 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MQNKPCNPRVMRLLLVFGILLTIKCRYMLFGVDLAIVISFLVITLLIGLSHRRGIKSIQD
YALGGRNFSTGALVSTTIATWVGGGFFFIVLSKSYSDGLYFLFAASGMVTSFLITAFVFI
PRMGEFLGKTSIAEAMGDLYGKNIRIVTAGAGIIGDIGALAIQKAFGDIIFSFLGMP
SYISTIGAGVVVTIYSAFGGIRAVTFTDVLQQLSTFCIAIPLVGVMIWDQLNLEGFNIINIAI
SEKFNYKEVFSFSNANFLQAIPLMLYFAIPSLKPAICQRIVIGSNVAQVKKAFIISAAIL
IFMLFIMAWISFLLFSVNPNLKSDQLLGFILDNYTYLGLKQLILVSVMMAMAMSTADSVIH
VSSTLFTNDICTPLKIGVKRELFTKIFAGLLGVVAIILALVTQDLSILLIASSFYMPV
VTAPLIFSILGFRSSTKSVAIGMGAGFITIVLWKIAGIKMNGIVIATVVNLIFLLGSHYL
LKQKGGWVGKDRSYLDELKIEKEAIRAKISKRLREFSFTSYIKNISPISFAYMRLGIY
FVIYFTTMYSIDTGVVTNDIQIILAIYQIMMACGILFVYPLWSHTLENKFPQVSWFV
SVFTILIFFSSFFVMVGNFTPxxFxxFxxNxIxAXxxxxWxxAXxxIxTGxxxxxxxKx
YMXIDYIDISIGSPQFVxMYILMLxGTVMIIFxKPKQEHQKQTEHKVGEExSxEVGEVLTV
xSxRDXQISTLDTKVxGLEERVDHYTERTxNxxQExxRLGAXAQRIxxNxNxxExRLPVGN
VxxFxEMLHDGLGKLSDEQLKMLSKEVYKNSNxxxxMIxNMxDLATxQAKKIEExQIKLAN
FxELVEERxAXCxKxYVEEKPxxFIIEKNVMVxMDENYIRQxIDNLVINAINFSEKxK
ILVxVxxQTNFVFTTIKDQIGIPLxELYDVFTPFKMGsTxXKAEGRGxGLALCKxxVN
xHxGxVKxESSxAGVLFrvVPLASDRGRPRS

>gene_152|GeneMark.hmm|50_aa|+|72846|72998 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
LHKCEDASTNNDPGYSREPGLNGGFLRLKLWIITTQKAPALTMCSVYFYN

>gene_153|GeneMark.hmm|257_aa|-|73120|73893 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MSGHNYNLLDENGVSHKYAIPINSLETVLGQGVTYRLQSDDLAYEAKRHLDTEVADLV
VVYHEYQEVKNTDIYKTDVCSGAVLDNERSIAWEFLINATIYNSSTAAYWAVHTMLSGN
GAERNLFLEKFLIALAKENASTPAEFALLAREAAPSTFFAKLAKTCADHTANITNLVGEI
NFTYGDVIALFQVYREVLKCNDSYDGSFDNFYPEHCGRASGMFINSIKFISLQTDSDGMD
IVDLIGVEETDCCCVIQ

>gene_154|GeneMark.hmm|368_aa|-|73910|75016 >NVVL0100002.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_922, whole genome shotgun sequence
MANNSEKTLKNIHQQLDTRLNDVQTDVAVMIRSFQKDLANMNVQDLASLKSASSFRAS
TLSPEVAGELELLLTSITEFSAKLEAEKMIEERIIQEELKHARNSGVSAEEVREYERNEK
LAGVIAVRVDDYFKYKEELFSEQRRELDLFLNALSSGTETSIEDKCLYLGDNCNSAGLRTKM
GLAERRQIDRQDQAMEMWRHLPSVNEHNQRKIDAVDASLQANISQPVREHLEQERKQLQT
TLERGQQALEGIDKLLAGESKILDKRLKMMKLGILPKKGGEQFLKNHYLVFEEESRVNPN
ATGVERCKQLAKAADIDLDAKSEAELLRSARRTGRQVRGSSSENSKTANQSASVVSGLSI
KKVKPKSR

>gene_155|GeneMark.hmm|489_aa|-|466|1935 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MLKKINNFLVKSISFLALLTIISCNATANPSCANIKELEKLSNQG DATSQADLALCYDD
GEGIAQDFSKAAKWHRKAADQGD AIAQYNLGVQYANGEGVTKDFTQAVKWFKKAADQGDT
TAQYNLGVQYANGEGVTKDFTQAVKWYRKAADQGYADAQYNL GILYANGEGVTKDFTQAV
KWFKKAADQGYADAQYNL GILYVNGEGVTKDFTQVVKWYRKAADQGD AFAQYNLGVQYAK
GEGITKDFTKAVKWYRKAADQGHADAQNNLGVLYTNGEGVTKDFTQAVKWFRKTADQGH A
FAQYNLGVRYAKGEGVAKDFTQAAKWYRKA AEQGCALAQNNLGIQYVNGEGVTKDFTKAA
KWLKKAVDQGYAL AQNNLGVRYVNGEGVTKDFTQAVKWFRKAAKQGYAL AQNNLGVQYAK
GEGVAKDFTQALKWFRKAADQGNADAQNNLGVLYTAGKGVTKDFTKATKWYRKAADQGNA
TAQKNLKLK

>gene_156|GeneMark.hmm|890_aa|-|2092|4764 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MRIEDFKEKYNYP AATPVMRQYLDIKFSNIECLLLFRMGDFYELFYEDAITASRTLGI AL
TKRKGSGERAIEMCGVPHHALENYLNKLL EEFKVAICDQMETPEEAKKRGGYKAIVNRS
ITRIITQGTILEESLLDAKEPNYLV SIAIDKKGNAGISSVDLSTSEISVISVPEREII NE
LARIRPKEILLSEQYRSGELASVIGTQLDMRISFQVDSFFSAKKCEKNILDFYQISDLAA
IGQLTMEQISAVGSIIEYISLTQKANLPKLPKPKILNYNKFMSIDASTRRNLEINAVLSG
GVRGSLSCIDNSVTKTGSRLNSYLSAPLIEIDAINKRLSVTKFFYDDIPLTEIIRKSL
KQTGDLERCLTRLNMGRGTPKDLLSIKYTIEIAEQIQAEFVAKKGVTLPENIEKITQPLL
GMSSLHDLIAESIRE DAPNIISNGGIINRNYHPKVAELHDLIENGQDAVEKLRDKYRQET
GIDTLKINNNVIGL FIDITARHADKILGENFIHRQTTANSIRYTTKELQELESNMVNAK
LLVVSLEQEIYAKICMELVDNQQLLLALAGSISLLDVYCNFAIIAHENNYCAPELSDDMR
FEIKAGRHPVIENILKKS AESFMHNSHLSMDERVWLITGPNMSGKSTYL RQNALITILA
QIGSYVPASSAKIGVVDKIFSRIGAGDDL NKGQSTFMLEMLETSAILAQATHKSLIILDE
VGRGTSTYDGV AIAWSVLEHIHDKLRARCMFATHYHELVAMEDILPALANYTVAIDDS DG
RILFLHKIKKGSADKSYGVHVAELAGLPKSVIRKATDLLKFK EKDSVKSSKELMRGESYN
MNLFDMA SENAPPSKYQELAEELSTLNPDKLSPREALDILYK LKETANSA

>gene_157|GeneMark.hmm|227_aa|-|4816|5499 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTSSGYRGKFTRVKTAKRRKPSSTRWLKRQLNDPYPVAKAQLDGYRSRAAYKLIEINEKFN
ILKAGANVVDLGAAPGGWSQVA AKIIRSDAASAKNKLIAIDLLPIGNIAGVISFEKDFFE
DGAKEMITDALDGR LADIVLSDMASNTTGHSP TDHLRIMDL CENALVFALTILKPGGHFI
AKIFRGGAE GDFLSMVKQNFKKVKHFKP DSSRKESSEFYLI ALERKE

>gene_158|GeneMark.hmm|158_aa|-|5503|5979 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MLKAQLNTK SISRIAAIQTMYQYEDGENDIDIETLLLKLIDFYKNEDIKSDYELDSKSKL
KPRPSYNHLKELVKFSHENLEEIDAI IETHLTKEWTLQKMPKLLTATLRVAICEIKYFPE
TPRKVIINEYTDIASDMLDEGEIGFVNSVLDHYSTKKI

>gene_159|GeneMark.hmm|243_aa|-|6121|6852 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNQTTFPFSSGNDYDPNEYIESSSNKAAYNALMHWP EFAGVEPYARVLIIEGAKSSGKTF
LARRWAAKSGALFIKKMHELTENIIANHS AFIIIDDFDESWE EEEKLLHFNIIHEHSKYLL

ITTRKLHEASLRETSRLRERSLHEASLPEIKLPDLSSRLNASNKISIELPDELLKILIFK
LFSNRSVVIGADVVEYLIKNLAREFQVIINSAEAINKFALENKRKITIPLVKQVLLAEKI
QIA

>gene_160|GeneMark.hmm|347_aa|-|6868|7911 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNKVIFWCASLLIGGLMYVLSSTIAPFLVALMFAYLLQPSIETNCKRFNLGRPIVTFGV
FILFLSSFVTVIVLVVPIIFKQFAMFLGKIPQYKDNFEASVTSWSARLNDIDPELADKVS
DSLQSFINTAFSMFASLANHLWHYTLATINFFTFVALMPIILYYFLRDWPKIIKAIESML
PKHGKSKIREIFTSINQLLSAYIRGQLNICLMLALYYIIGLEIIGVDFALLLGVLSGFLI
IIPFICALVSFLLVMVSCYFSFGYGVVELLYVTLFFIGHVSVEGYVLAPKIIIGDRIGLHPV
WIIFAVFACGSLFGILGVMFAIPIAGIVKVFLSHLIGYYKSTQIYKN

>gene_161|GeneMark.hmm|406_aa|-|7912|9132 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
VKTQRVQNHIIYNNKAKSTSLAPAADAAQAANLACPSSLAHCFLIVFALCFPPQSFANT
GVISEIFIEASGNKHEARIKAHELGMQRALFLVADKINIPTDDLSPVPYEDLRQVFKPI
TIADELSLSEKYIATVTYSYDQGKLYNLLLEYGNEEINDLFYEALIIPVLKQGITLNVWN
DDKKWHDIWGEHRDSLNEYKIFYPEKTYLENKINSANLRELNYYDDFTKIFHGKLFKKVI
IISGEFFTNRRATAKSLLRVRHYAHGQEEESMITEKDYDLKDWSDIANTIDLIVTKLIDSE
GKTRTTEPEEMAENEDVFHNPMA DLKQIMMDIDVFDQEELDLVTAKLAAVKEIESFKISH
SYESRYKILIYTSSEYALAEGLYLNGLSYKIHGNLYNLIDIKKGG

>gene_162|GeneMark.hmm|251_aa|-|9150|9905 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MEKEDNGSILDDVFEKINKGEAPGEFVDFVDNLENPTFVSESENAPEGAGAENTDKTES
AYQENASENVSSNQNEGARAQAESSYQSEETTQNPQDARTREELLA EIDSLKDKVLRGLA
ESENIRTRAAKSSQEA REYAIFSFADLVPVIDNLSRALEHLPENLSDDTKNIVEGVKMT
KQELESFAFKHSLDSISPHSGDKFDYNLHHAISQIVTEDQEEGTIVNTMQMGYKIKNRLI
RPAAVVAKGS

>gene_163|GeneMark.hmm|866_aa|-|10081|12681 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSKVEVIMAEVITDKAKTPEVTMAEVITDNDATTSITPFLIDDTMKTMSKNFLAQAQKVS
EGFLFIKNQLLECPPEQLEISLHQFNVA SSVAGSLGIRAMVQDGNLQTLILLAKKLPDI
IKSMFGIEASFLIETLNFKKPPPTDIEPAQDVADRELARPSNTEPTTAERLPKNVEDLLT
YLSYTVRFHDSEILFSARQKECVKLSFLHIAAIIIGNKIILKHLITVGREEGATNGMSSTT
RVDYKHNNVIHYLELWGHKDVEKALLGDFSELNPLRGHANSSGNPKAITPSNAYA AFK
KNIMSRVQGYEPLKVLTTTEILMAPQEETPPMELEQKVSPDMPQVQLEASTTAPVIITESS
IISYYFRMLLSDNVEESCKLLPAVANGLVALLNLTNDINNSTNRHIAHNYLCYLGKIIS
IYGQTEGKLLDKVTNLCAAWGNHEPLAQFWILSAEKESFTPRDRVKYMLKAQSAIEGCTP
ETKVNIFYKLRSSLTNEHASNNALKKALKIIEDNGLQPNLTELAQIIPFQIQYCIQHPNT
PGSSIDKALELARLMDDKFQTELGCSLNLYCLYVNLMLGDDNAKHTVKQAISEMDVSTEH
QTAQKLYAPIVHEISKILISDLPENSRDLDTKLIMIALNILLGAAKYNEEGLELAQTYS
QKLAEHPQYADEQSA AASEYPATDIGISSYLYLFKLLTNTSDEPISQSALDTPPNLSRAH
RELCEEVSKLIQFVRSLSGATRLPTYLDHLSTTGSAAFNDLLGNSNPDYESSLPEPQNNL
ETAIDNSVQRFQGLLLNILENPDWYVIPNELLRVNDSLSSEYEAPPSAPPEEELIQLPN

PDVPCAGDAAAGAGSDSDTGSDSVSV

>gene_164|GeneMark.hmm|612_aa|-|13005|14843 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTHSGTNSAITSNDYQNLVSSMQAERKSPRDYDQGGDNIEKALESMEARKFAIALLMAS
AKNMGIPGDGSDSNQASEMMQISRGIAEMQATEAEILATKALIEVQKNPAVNLMDLKDK
IVDYDDSTRNFQGKPIFSYDISHSEKSESALIANIFTIRDAQGNTVKTVSQPGKAGSHE
FIWDGTDNKDQKVPNSEYSISVESHGKIVNGTRIPFAVEATTNLSGIVESIKIEKGVAN
SIVINGKPIMRDQISGVREPEEVEADLSLTPDLIGKYARLDLDRAQVKDGSMDVVFHNHT
EHSGVLSVQIYDENDKLLKTITSTEQAGSGMGKLTLDVLENGDYNLKIHLRSEQLDQD
IRLNSIIDVAVAGINPREGNFMSARENSFSPHNIQFIVGNLNPQQRQAEYTNSEIVY
RDDGFIFKGGNPMFSSVAKKPOEDGSILSHVDMRIYSADGNSDLVAIVRGEYDLYSMLD
SDSAAIVDNWDEQDPIAKNRFIEDGLLDGGELHLEEEYENSYKDNVVSVDFTWNGEFMGA
DDLHASEGQKFQRTTPIYIKEDGTIYGGETMIPTKNAFALSVDQAEGELTLNLANGQKI
PEELVMDSRKLK

>gene_165|GeneMark.hmm|544_aa|-|14859|16493 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSAAVLEREVILPTRHKSGGNSASYTRKNESGEFKNLLETRTNASTSRSSSHERKAPRET
TREAELQTTSEKTAETDFENTSATPSPEQLPMLSTSQHARGKEDALEEPPDLEDDDL
ENTELQNAGLGNNDLENNTLKDTEEQLAQEAQNHPEFTLASAAAEPATPSLHNNAADALN
AANMQQAQLSDGEIARAQHSKATTHIAEIAENIDITSLKLGSDQATEAQRNQKASEAIN
LTELTKLKVPSQNPAPANPSGDAEPILSPKLLLAEESSRGQTVLSQISSNTRPSRS
EQAPIASSAAETALPSAVKPELANLNSNGGEAGTSARKKPATQLPTMTEKSENVFQISFQ
DNIPRNTNALSALGANITHTHPPKPAQIALAVNAAASSGTNGAKEITINLFPDALGAV
KVEILSAIGQDGVSKIQSIKIIADRRELEILEKSRIDLEKSLKEVTDTKEEASLEFEMN
QQGEQQRGGYFESLEERANWMSKFADITSEDAQDSDPRNIPNELLSIPASTGYVTKYSV
NIMV

>gene_166|GeneMark.hmm|218_aa|+|16779|17435 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSAQLIELVIFAIAFFIINKLIAILGSTSDDDPTKRNSFFGENNSMKDVTDTGTASTGK
ERATILRPFAKKKKIELGLLIVAENEKDIQAGLSELLEKLPANIKSFVKNVKSFAQMI
IEASNEEDDSNLKELVDARYTEAFKAIASSYGEYSAKNEQLTAQISEIFMFGNNAFVKMLF
SGKNITSKTSMDNEEWTFKSTLNSSPVWQLTNIDRPQ

>gene_167|GeneMark.hmm|79_aa|+|17616|17855 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKYPFLMIKFYQFFISPWLGKSCRFPSCSEYAKDAIIMRGVLYGLYLSAIRILKCQPF
SDGGYDPVPEKRSSRNGSE

>gene_168|GeneMark.hmm|605_aa|+|17938|19755 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKGVEIVKSYLANAPESPGIYQMLDEDKNIIYIGKAKNIKNRLSQYTLKLSVKNTAMVAL
IRHIEYSITESESAALLLEGQLIKKFKPKFNILLKDDKSFYIKLRMDHDYPQLLKFRGR
NLTGGKFFGPFASAMQVDVTLSELQKIFKLRSKSDSYFTNRARPCLQYQIKRCYAPCVNK
ISKNEYDDLVRQAQAFLEGKNKKLQEMLSAKMEQLSADMKFEQAAEIRDRIKAISYVQLK

SGGAHSLPDADVIALASHNGEFCVQLFIYRAHQPCGNQAYFPAHTERGESAGNVLSSFLM
QLYQNKTPPKQILLSHEIDDIKMHEQALKKLHGNSVTISVPHKGGRHKIMENALRNAELA
LEKHLKISAKNTNALEAVQELFSLPELPRRIEVDNSHIQGAFPVGMVVAGKDGFEKKE
YRLFNIKESDQTSHGDDYAMLREVLTRRIKRLKSEPHRKPDLMIIDGGRGHMGVMEVM
AKLGTSLPFICMSKGALRNSGREQFHRPGHDTFTLDKNLDVMKYLQILRDEVHNFAIKSH
RNKRAKSIRASSLDQIDGIGESRKKALLNYFGSFKAISGATISELKKIDGISDDLAKSIY
EALRS

>gene_169|GeneMark.hmm|1005_aa|+|19895|22912 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSKDNSENAIDTPSIFDVAIERRALSLEIQAFSEFAQSLRDKNSDASISLAKYVRETF
KGQNIIVVPDLTGLELEDLNLKNVDFSGSVIRNTRFRCDLTDSVFCDTDLNGAFFDSTK
LKNIDFRGANLVNCEFGESYGHLPSEMDEFSSGIKFSITADLGRRYADIKSNNHLLER
QNLRAAKQGEIDRAYSELTFVQVRVRSLSNASTGYDYDNLTAELANMQKGLYPKEYIMHE
SFQRVFGSQGSYFPCYMRGSGATERGQEKRYIRTDRAEMEAYLAELKSNPKLILNDFVR
QRHNAAYPNEMIDDAVIVHADCSSRVGLDNEWILADFSGLNFTGANLQSVNFAGANFTGE
NSEGTVFTKANISNSSFEAILDNAQFIDTTAIDANFFDADIAAEITGSDFTRAYMANSR
AHTPNFGDAEVASGTGANAGVRIKESIFNFADISNANWDGITIEDSTFNANLEGVSLAS
ATIRQTKMQHANLSRAILKEATLIEVDLENARLEQVNAFKVTIQKSVLRNISAREINLSE
ADLDEFCTLDGADLTQAIMKKAKADKVSFINAQMSGIQASEASFQGANFQNAQLRFAQMQ
EAKLNDAKAHNVDMTGADLTYIEAQRADFANANLEAIQASRANLTDVMEGADIRAACFR
NALLERVNLHKAKINPLDISNSNIDGASGTLETEEGENISIKDKKTQDDLVSASETGM
FRRVAGGLLSVVAWGAKKAAPYMRQIFSSKTGKIAGAILGAALAVGAGWGLAAIGAATG
IIVGGAAIAGLVGAGIGWKSNGKAAQNFGITGAIATGFGAYYGGAPGAAMAATASVAANV
IVRGAVGRSIDEIGDGVVEYAANRLDDLSSNIGLSREQQLALKAHQQAEMHYIHPQEIDS
PVRSSAQGSLWRDQYNNERIKQAARSKQASPSAPPPHSDSAKSAEAESSSGQGAAANA
ESQPKSQPQPPEPLAKASKKVSHVERTAKKEVDKESKISRNTG

>gene_170|GeneMark.hmm|212_aa|-|23073|23711 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKLLSGNALYGIQKTSLEKDISKVISNVKISAAEADSASEQALKIKSGVKSSTYNNNYK
GRQNSSGSKLSGFVGSYGNKPFVNLNRNFAELNQTIKTDYETGIRQIMASLGVEDSASKL
AINSAILTLETALNKGAIAAFAIAAPAPSTDQEFALKTSITNSALLAVSDSDENEGGNTG
HGSWSGEEDAPEENKDDKPTDDSNDDELNILV

>gene_171|GeneMark.hmm|248_aa|-|24088|24834 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MMALVLGLTAIMHEYTGGALLLTGAILSVIYCAANWWSVDVITEGRVKGHHTNEVQMGLRI
GMSIFILSEIMFFFAFFSIFVYSIFPTGIMDGLWVISEGWPPEGIKTFDPWDIPFINT
LILLSGTSVTWAHHAIKNNDQKNSVIALGITILLGMSFSMLQAYEYYHARFGLSDGVYA
ANFYLATGFHGVHIIIVGTIFLIVCFRRARKGHFLSGNGHLGFEFAAWYWHFVDVVWVWFLFL
VFVYVLGR

>gene_172|GeneMark.hmm|185_aa|-|24964|25521 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MGAKSNDIVIAVLCLLLSMMILTASVPIYNLFCKATGYGGTTQRVNPNYALVAKGKRKI
LVEFDANIDSKLPWRFIPKHRSAEVVTGENTLIFYESENLSHDHIIGTSIYNVTPFKAGK

YFVKIHCFCFEEQLLRAGQKVLMPVSVFFVDPAIEDDPEMDDVNRITLSYSFFKVRDLPDA
KNNGL

>gene_173|GeneMark.hmm|244_aa|-|25522|26256 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKNKLIQNIKSQYDKQAVLRGVSYHLEQGEAVGLFGPNGAGKTTLSITIGLVKPDLGQ
ILLNQDITNLPYLRGRLGIAYLPQEPSVFKGLTVQDNKAILEIAYTDEDEIVSKTEE
LLDEFISHLKNKFAGTSSGGERRRLEIARALATKPNFIMLDEPLAGIDPLAVRDVRQLV
SHLKDRNIGVLITDHNVRDRLDIVDRAYIVYDYGKILMEGKPEDIISSNKVREYVLGQTF
KKGL

>gene_174|GeneMark.hmm|144_aa|-|26259|26693 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSLILKRLVIFLIYISPLSYHALSDERLRIDSDNLTIKKDDSSASFTGSVEASFNDYKLT
TSKLTILYGTINGKKDIVKIVIPSKLKLKPCSEEIAIADRGIFDNKTKKLTGTGNVMLQ
QKDNILATDKLVYSGNFKAINHKK

>gene_175|GeneMark.hmm|209_aa|-|26709|27338 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MPNTDKILARIKLLKYFLSAGICVLIGILATIYGKDMFDSSHANTNSTNSLALRPKLSK
NHTLSINHSIFEGVSKDLTPYKIIAENVTRNSDNKYQLNRVEGDCSLKAGGLKMRAAAGT
IDMSTKLVTLKQDVYVTLNENTIFNSDEIQISLNNKDISSNSAVSVTLKDSNIKADKFKA
LGSSDDIKFEGNIKFESDVKSFSFKATNK

>gene_176|GeneMark.hmm|325_aa|-|27339|28316 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKHHTHMKHHTHMKHTDIAHNVITSQGDALAVLAKNIPADFAPLIDCILAALKGRVILVGMGK
SGYIAKKIAASLASTGTPAFFTHPAEASHGDLGMITKADLVIMLSNSGETKELFDTIDYC
KRYNIKIASITMKEGSTLAKNSDFLLKLPTQKESSAIAAPTTALMTLSLGDSIVTALHE
AKDFTKEDFKNFHPGGKIGANLLKVQDIMNSGEQLPVVSGGDAFADVIKMNKCLGCAV
IVDESKTMLGIITDGLRRHIGGDLKISAKDVMTPSFQISPNALATEALFIMNDKSI
ALPVLEDGLLVGVVHIHDILKAGVS

>gene_177|GeneMark.hmm|197_aa|-|28322|28915 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
LPDDFDLSGDLAIDTETMGLMLHRDRLCVLQISTGDGDAQLVQFDGKDYSAPNLKILLD
ENRCKIFHFARFDLAAIKKYLELDTNIFCTKIASKLVRTYTGHHLKDLCKEYLGVTLS
KQQQSSYWGTDKLSHQKAYAASDVVYLHSLRAILVERLIDTGRTEIAHKLFEFLPTRAN
LDLIGWNEIDIFSHMST

>gene_178|GeneMark.hmm|126_aa|-|28965|29345 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNVERFKVKAGTYKLVLMRYRAPRSFNFRKTLNALLMLLYFVFHHSIYGSRGILAYF
TLQAELESSHKLELLRAERLEVENRTKLLRPGSLDRDMLDEKTRNVLGLSSPKEKLFKT
IKTEDK

>gene_179|GeneMark.hmm|234_aa|-|29360|30064 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNMTKMINMLKTTKIAKNKEHIMQRILSGIAIGLIFIIAIFLYRPLFTILIYLIAALMLL
EWFNMTNKSASHLYAGLPIVALPIASLLIISDIDDDGWLLFSFFCLVWSVDTMAMVGGKL
IGGMKLAPSLSPNKTVSGLCIGVLSAMIVVNILSALPSYQLPYMLPKSMIYLNIIYMLLG
VIAQLSDLFISYFKRHFSIKDSGTIIPGHGGVLDLRFDSIILTAPLVALYLISNL

>gene_180|GeneMark.hmm|227_aa|-|30071|30754 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNHNLNHLAIIIDGHARWAKQHGKTKVEGHRQGAQTIKSLLPHISASGIKHLTYAFSSE
NWSRPAEEVSVLIKLLSHYVTTETGTLNDNNIRLKIIGDLDKLSPSLQKQIKTIVEKTEK
NSKMILTIAFSYGGRGEIARACQKAIDSGATNITEDSFKEFLYDPKMPDVDLLIRTSGAH
RISNFWLWQTAYAELYFIDKFWPDFNEKDLAVAIENYSQRERTFGTR

>gene_181|GeneMark.hmm|442_aa|-|30766|32094 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MFFIPSNIKILNNIKLLPKSLLIRFMLIIMVPTLIAQLLAVYLFYQRHWYNVTRHTSSL
VTTEISSLLENYETTPNKQHSYQNSLYIFIPTAKLPAQQKKYAKELEIFKLSLQQRISQ
EIVLISKDNGRNYLYLQIGDNVLKIELPYKSLIHPSTRIFVLWIFFLTILLLSVSLIFSR
NQINSIINLTNAVESYGIGEKTKIYKPSGASEVRRAGLAFKMKDRIDRQTAKRTQMLAM
ISHDLKTPTRMKLQAEMMENPEEKEELMHDIDSMKHMISYLDFAHGEGGENFQKIDLN
QWVPEYLNQKWSSENISVNLGDIGIFAQIKPHSFERALSNIISNALKYSTKIKISVSLSS
EKENAMIIIEDNGKGIKEHERKLVFKPFYRADKSRSLGDLSSVGLGLAITKEIINGHYGT
IILDTSIELGGLLVKIKLPIKT

>gene_182|GeneMark.hmm|225_aa|-|32078|32755 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNKKPHILIVDDDSRILKLLKKFLSQNDFLVSTTISASGGLELLSNFTYDLIILDVMMPE
ITGLDFASKIKNAGNTIPIVMLTALSEPEHRIKGLEAGASYVTKPFEPRELVLRINLI
NARTQYEKEKQSVRFGNNNYDLTTKELTQNNQTIKLSSEQQLLDILLESSNETISRTEL
SEKIGVLNRSRVDVQIVRLRNKIETDPKNPKFKLTIRNQGYVLYT

>gene_183|GeneMark.hmm|291_aa|+|32845|33720 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MDFKSSKKAADFIWINGEFIPWEDAYIHVLTHSLHYAGSVFEGERSYGGKIFKLMEHTKR
LINSAEIMGLEVNYSVAEINEATEELLKKNLENAYIRPLVWRGAGALGVYGENMVSNLL
IMAQNSNHPFKNGARLVLSKWRKPTIDAMPPQSKSSAHYAMQIVSQQMAKQQGYDDALLL
DQYDDIAECTTTNIFFGKRELVTPIADRFLNGITRQTVIEMARAMGIRVREERLTLEDA
EKYDTCFVTGTATEIKGVSSINYDYKKLEFPNDNMVKDLQEEFAKIVGKQI

>gene_184|GeneMark.hmm|296_aa|+|33717|34607 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTSKNIFKGVLTALITPFKEGVVDKGVLENMIEMQIDAAIHALVVGSTGEGGLLPDDEY
YNLIEIAVKCSAGRIPIIAGISSISTRAALEKVLRLNQGVDGIMSTVPHYVKPEQDGIQ
MHFEAVASTSKSPMIYIHPSTGSEISDETLNLAQKNILALKDAGDDIERPLRILPK
LMHENFTMLTGDDSKMLAYTANGGDGCVSVLANILPDKCVEIYDLHASYEALVVQREVTP
LLNALAAESNPICIKYAASKLNLCRDEESYTLPLTKARAETREIDLALRELGLPR

>gene_185|GeneMark.hmm|153_aa|+|34641|35102 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MEEYKKIVANNKRAQFEYFIEERMEAGIVLTGSEVKSIRGGGVAIADSHAAFSDGELYLY
NCHIAEYEKANRFNHETRRPRKLLLRGKEIQKILGKIKLKGTYLMALSVYFNSKNMIKIE
LGLAKGKKQHDKRQTIKENDWKREQGRIMRDKK

>gene_186|GeneMark.hmm|307_aa|+|35102|36025 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNISPDYLIERKRSKKQLSNWKIILILLAALLFSSFGKLPASKNFAAGGFQSKDYIASV
QIENVIEEDNLRIRKFESIEKDDSIKALIVNINSPGGSVVGSEKIYNVLRKISKTKPVVV
IMGSVAASGGYLASLGGDYIIAHNGTLTGSIGVIMQSAEVTCLAEMVGVKFENFKSGELK
ASPNPTEETSPEARQATMDSIYEVYDYFVELVAARRNLDVEYVKKIADGRVYSGRQALDL
KLVAIGDEDSAVKWLQEEKGIPFGAEVVDVKIRPRDKLIEILLEDLQGCVSGFFSALGS
KSFKSVI

>gene_187|GeneMark.hmm|83_aa|+|36063|36314 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MATKKDLVGRVLQKLDYLSPEVDYAVDSVLDCLKAELALENRVEIRGFGSLSIRKRSHP
KKDELYNSVYYRMSKNIQERLND

>gene_188|GeneMark.hmm|166_aa|+|36307|36807 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTNLKIGDIAPNFSITDNAVADTSVVAKDGSATLSDFAGKYVVLYFYPKDDTPGCTVQA
RGFNSLLKEFNDLGAIEIGISKDDLKSHEKFTNKYDLQFPLVPDMEICKKYGVWVEKS
MFGKKYMGINRESFLIDPEGKIVHIWPKVSVLKHAAEVLAKLKEFV

>gene_189|GeneMark.hmm|181_aa|-|37266|37811 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MEKSYSDVIKFWFEEIEPIQRWKKDPNFDAMITQKFGHVHTQASKGVLTPWRVNALGALA
EIIILDQFSRNIHRDTPAAFANDQLALRLAEDAIEQKYDQELEVSHRSFLYMPFMHSEEQ
KIHNRA MELFVQDGLGAYDFEKKHKVIIDRFGRYPHRNEILGRVSTPEEIEFLKQDGSS
F

>gene_190|GeneMark.hmm|308_aa|-|37867|38793 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MEFLAVIGFILAILAWGGVKIVPQQQAWIVETLGKFDQILGPGLNFLIPFVQKVSYKHTL
KEVAVDVPRQSAITKDNVTLIDGILYMRIIDAKAASYGVSDPHYALTQLAQTNMRSQIG
RLTLDKTFEERENLNANIVNSINEASSTWGIQCMRYEIKDITPPHSVLQAMELQVAAERQ
KRAEILESEGKRESQINIAEADKREVVLKSEAALTDQINRAKGEAEIIVAVANATAKGIS
TIAVSIQEQGSDAVSLRIAEQYIDAFKELAKESNTILLPANVNDVGSISSIVAQGTSIF
DAIRQQKK

>gene_191|GeneMark.hmm|156_aa|-|38824|39294 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MIFEYLTNNHTLWLLLGAIFIVLEVTAITGIGFLFAGLAAISLGGIIFDLITSNDPVL
EIAIFLLLSFVWASILWIPFKRFKHSRTNKPFSNIVGDIAIIESSTLAPGKIGQVKWSGT

IMRAALDSKGTAVLTKGDQVVIKALNGNILIVESIN

>gene_192|GeneMark.hmm|233_aa|+|39736|40437 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKPLYKSLRESIESGDYFQDSRNWYKYKIYYPFAQRSLVLILSAIIFVIFFGVVLDLYAL
LPIVSQVNYSIATDYSQNSNAKIIHANRVPNSPLISADIMLRNYVKNREHYSYGLKKQ
FIFVKNNSTRIVFRRFYNSMNIDNPLSPVMRYQKTIQRQAMIISTHHPFAGKSIVKFATI
AQSPSRAHIENIVWQATISYEIDKINTASPSGTRFNFTVTDYKCLKLLENKNAK

>gene_193|GeneMark.hmm|254_aa|+|40441|41205 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MENGIMKQIIILAILLSASSVFAIRESRPTSIDSRIRVMVYNPNDFKFTGYYGYQASI
ELASGEEVVSISMGDTSWQIVPAGNRIFIKPMEQDATTNMTLITNKRTYYFELYAEETL
DIRDPAMVFVNFVFLYPDEEEEDHIRTFASASQAEPNLNHPEKFNFNYSISGNESIAPIKI
FDDGEFTYLQFRDKNNEIPAIFAVDKDLRESMVNFRLLDPNNRNLIIIVEQVFHKLALRSGQ
NITCIFNEAFRQGY

>gene_194|GeneMark.hmm|89_aa|-|41569|41838 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MCKSDHRSHKGLNNRVENAHQPTRKKEKITIKFKSPQGVQNTLSLMGKIRNIFSVDVGR
YTQNATNQRSFAFNKAKSIWDDAAQGLLAA

>gene_195|GeneMark.hmm|109_aa|-|41948|42277 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MYINKAPKRHRFPVSIISHVWVLYHRFNHSDRDIKEQMAYREIILSHETIRSWCYKFSSH
FKDVIKKQERNTKDKWHLDEMTIRINGEYFVLWRAVDSDGYELDISTET

>gene_196|GeneMark.hmm|115_aa|-|42362|42709 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTKKIAKXSEDINSKLIEELLSKSDPGELFGKEGMFSQLKKQIVEKILESEIEHELGYSK
HSKMSKSNRNRNGSYEKTVLDDDEGYKIPRIEIPRDREGEYEPKLIKGVRRAPSS

>gene_197|GeneMark.hmm|90_aa|-|42751|43023 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNYTPRLNLPLIHSGQAQKEITHNEALSMLDVLINPAQKIGQGWRFTPSKWLEVTLDRD
GSKHRFNGEYWAPSSMGVCHKLCVSCCKIQ

>gene_198|GeneMark.hmm|82_aa|+|43097|43345 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTHVILSNIVASISELKTNPSTVRSAMGKPLAILNRNQPVFYCVPADLYEAMLELIDDV
ELAQIVTQRASEKEIAVDINDL

>gene_199|GeneMark.hmm|58_aa|+|43335|43511 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTYKLTFLSAKKEWRKLSPIQVQFKKLLNRLSEPKVSHLIIPHLFVLKLYLIFS

>gene_200|GeneMark.hmm|1239_aa|-|43708|47427 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MGSFASMALPIAGGFVGGFMVGGVGTAIMGANLGS AIGGMFASGKSRTVRLPSQNGARLGD
LRVQISSYGEVIPKLYGTMRLAGNVIWSTDLKETEHVHTQSFEQSSGGKGGGGRRVTTT
QNSYSYTSVTLAIAICGGEVDEISR IWADSKLISAETLQTNQGFNIYLGTEDQLPDDI
IARHKNGAEFPAYRGLCYVVEDFPLEKYGNRIPNFSFEVRRTVRFVPAVEDKVRELILI
PGSGEFVYADQVCAKKRQFPYGGTYGHSVINMHNYDGKPDMLLALDQM QNTLPNLEWVAL
VVTWFATSTNAGNCRIVPKVEFKDEEAIIEPQEWGVAGFTRETAEEVLRFDERTPTYGGT
PSDHTITAICKELKSRGLNVM LYPMIFVDELEPHPKPWRGRIRANSAIEIDHWFNGGSGY
NRFIKHYADLTCGIVNAFVIGSEMIGLTGFTDRPGSYPATAQFIKSAEMIKDRVSNNTIV
TYAADWSEYHHTEGGWFNMDSLWASKAIDVVAIDAYFPLTKDLPQSEITEELIQAGWESG
EGWDYYCDEDTRRHPFHGAKYAWKNLEHWWSTKHTNPDGNIT EWQPRMKPVWFTEFGFPS
VDACSNQPNVFDSSSIESCFPRGSLGRVDFLAQRQALNASLDYLESRTKRNGLDQLVPK
RFVWTWDARPPAWPDNKRAWQDGLWKTGHVWNGKFGQSSLAIVADLLCEVGLSAADY
DTSRLIDQVDGYIISQHITAREAIHLQAAFFDVALSDGILK FVPRIGRTNVAEITSE
LVSNNNQDINETIEITIAQELELPEKINITHIDKGREYDTATTSSKRQTVSSKEQVNIIL
PISMNQQAQKQIADITLYNAWQERKNYQLTLPKYGYLEPTDIITVQ TGNITHQMRIVKT
DMQRTAQMRIVATNYNANMYDFHSSIQGEYEQEYDFPLPVAKTKIELIDTPPLPSDQTT
ATVRIAVIPEHENWNGVAIYKTTNDGYDYKLLTTTNIASITGVSLNKLPPAASTIFDYRS
EIIVQLPYGELNSVIELVLLNGANAALIGNELIQFQHAELIADHQYKLT KLLRGRQGTEH
AIDTHSEGERFILLNEGILEGKVS HDMIGRSVLYKPV SIGSTLAETESVEFTHYAIHLKP
FAPVHVTAEHVENNIKLSWIRRTNHQWRDNVDIPLGEEYEKYEIDIKTSDGKLITTI
ESTEPAALYDRDQSQDNLTATIYQISSIVGRGYGTRIEV

>gene_201|GeneMark.hmm|156_aa|-|47448|47918 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKTKLSQKIVTAARSWLGTRYHHQGR LKKTSKHKGGVDCVGLVMGVVAELNITGAGGKNL
IELDRTDYS AHPDGRSLVEFLDMHLQKTNLKKIKDGDILLFKLFKHPQHVG IATLGKIRG
LGVIH CYSASGSVVEHILSPA WLRMIVGVYRFKLDK

>gene_202|GeneMark.hmm|284_aa|-|47920|48774 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MRQLTQELTAHLSAEVTTLASCWRIERTDGLVLGFTDHD RPLMIDGVKYDSIAGFTPTNV
ESGSDMAVDNLDLAGQTFPSKITEIDLLAGKYDFAKLEFLVN YNKPNTGKLIQKRGLLG
EVTIKKQLFYAEVRGLTQFLSQTMCESYSPHCRATLGDARCKFNLDQGEYTVRAAITEII
NNQTFRASILNHE NEWFKDGYLIWESGNNIATKMEVKEFANHMVTLALPMPFAMHESDEF
SIIAGCNKSSNCKQKFNNIINFRGEPDLPGIDKLMRTAGTALK

>gene_203|GeneMark.hmm|201_aa|-|48771|49376 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MPSFIEAQFPAGISYSGKGGAMFSTDIVSTFSGHEQRNINWHQARARYDVASGVKTP EQW
QELIAFFRTRRGRAVGFYKDWSDYQGVNQH LGTGDGRKTIFQMVKHVSGDAVYSRIIN
KPVCNDFCKIYIDSILYEDGINIDFTTGQVEFRGAPRIGEEITADFEFDVAVRFDTDHLD
LSMDGFNTGSWQNIPLIEIRV

>gene_204|GeneMark.hmm|599_aa|-|49386|51185 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence

MAATKEVRVTFRGVDKTKQAFGRICKNFKDMEKLSSKVTRGFGGIGMAIGAAFGTRALKK
IIDTGDQIGKLSRLGATTEGLSELKYAAEMTGVEFNSLSTGLQRMTRRVSEAAALGTGSA
KDALIELGLSAEHMNSLKPEQQFELIANAMSEVTNESDKVRLAMKLFDTTEGVALLQTMFH
GAEGIRKLREEARKLGLSLSGEDTKAMEAFNDSLGLKQAVLTGLLTSVLLPLLPATAFF
EAIKDGNPVLTFLITALASLAGLRLAAWFAAAALSVKFTLALMANPIGLVAVSISMAVA
ALVSLTRWFRKSTDAGAEHNKILQQAKLVSDEIVIANQKQFEALKKNNEAHLASKNILKK
TSAPLSKHNNQLEKMNKLLKEGANNQNLHNNAMEQSVHQLEQTKTINADVSTIETHSKR
AADRMIDNLANCAFGAKTHAGSMKSTFKDLFKSLQSDILKTTLQRGLFGASAGGMSGMGG
MGGGGLLGGFLSALSGGAGSGAGGGLGGLLALGNFVGFFAKGGTARAGKAHIVGDGGEF
ELFIPSTTGSITPFSKLSGGSNVTVMHIQTPDIASFNHSRGQITADMARQISRAGRNL

>gene_205|GeneMark.hmm|119_aa|-|51330|51689 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
LIFKMNNRIIDRVKAHFDKAKETKIIEVAEWGEGEESLYIHATPLTLAQKNRLYKMAKDDD
LGLMVEALIMKAKDSEGESLFSRSDKPDLMRGCDPDILIRVANAIMGDADDDITPIKKN

>gene_206|GeneMark.hmm|146_aa|-|51686|52126 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MATHAGSEGIVKVGDNQIAEVKSWSLSEVSDTVDASVIGTAWRKHQATIKSWSGSIEAFW
DEADAAGQGGLLIGSEIELNLYPEGVADGRRYFTGTAIVTGISRQGAFDGIVESSFTFQG
NDELFEHNDGGAVIIDGVAAGDED

>gene_207|GeneMark.hmm|147_aa|-|52156|52599 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MVHARTNIRRAFIDLLIGATDAGARIYDSRIYTLKRSLEIIVFSDHEEITDTISWPR
SQERSLRVSVCEYVKSNEVSSAVDNISAQVESLILASSNLGGICKDCRLEATDISLNND
GEQPVALASLVFAVLYRTLENSPEIIV

>gene_208|GeneMark.hmm|112_aa|-|52627|52965 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MLRALQLLGLDFMFREDLTFELDPEQGFVNGTVIQADGMQYVLTGILSSDYVDIDSGMA
GVAGSSPCFECREDDISIRYDDSLQVSGKHFRIKAIKPDGTGWAVLVLEEQ

>gene_209|GeneMark.hmm|709_aa|-|52934|55063 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTIYMNNINIEAERKTMTQMTNTEVKAEMPYRNDKQKQTNIDLLYIDDDNLALIKNE
LSEGREENPEENLGERSFYLSFSEDPYERSFGIEILDHGEDCVDLWLRSGRAPLLLDH
DHKKQIGIIESAEITDLRGRKVRFRGRSVLAQSVYQDVIDGIRGNISVGYKYKRSDLVL
SEKGEEGKPDYRVSKWEPLVSLVSIQADQTVGIGRSDNARKSKPKPKSSKKPEQEISN
NETNIIYKVRSDMEPNKTEAKITEASAMQASEMRTSAMQTLPMQALSNIADAGFNPEQIRQ
DETRRIEILALGDKHNMQERAMEFIKTGRTIDNFRQILDTLSTSSAINTARQENPIIG
MNHKEIGSFSIIKAIRAVISGNWRGAELEKEASETVSKQVGREPASFFVPLDIMAEQRSM
QIRNLEKITNVAGGYLVGTDYMSGFIELLSKMLVKQMGAQVMSGLHGDVAIPKQTGGA
TTYWVSEGGAPDHSQQSFGQVTLSPRSIAAFTDFTRKLVQSSPDIELRNDLATVIAL
EIDRVAISGSGNGAEPLGILNTDGIGEVAINADPAHADAIWGWKIVDLESNIAAQNADIG
TLGYLCNANMRGLLKQKEKANDTAQFIWENSGEQGFMLNGYRVGTSNQPANSLLFGNF
GDLIIGQWGVMDVLVDPYTLGTSGGIRIRVMQDVDLAVRHAESFAVARA

>gene_210|GeneMark.hmm|525_aa|-|54993|56570 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKLFNFFRKSSKAQTRNMSQRKYAAASINRLNADWVTSVLSADSELYNDLRTLRSRSREL
CMNNDYARRFLKRTGVNVIGATGIRLQVKAKDNSGKLLREINSHIEEQFHLWAKKGNCSV
CGKLSWVDSQKLFLESVARDGEVIVRLVKGFDNDFGFALQFLEADHLEDDLNMPLDNGGY
IRMGIEFNKWNRPVAYHLLSHHPSEVFHDKTSYEKKYQRIPASEIIHGFLIDRPSQSRGV
PWMHTAMPRLRMLAGYEEAELVAARVGASKMGFFVSPDGTGYAGSEHENDSPIMEADPGT
FEQLPSGMDVRMFDPNHPAGNFASFEEKAILRGVASGLDISYNTLANDLEDVNFSSIRHGS
LEDRDSWKVLQNWVIEHFVCRPVFEAWLLMSITSGKIEISATDFDKFNKPVWRARGWAWVD
PLKENHANQIAINQKTKTRAQVAADQGMDEELFQQLAFEDELAKEYGLDLNTARYREDR
DRDKQLDRSSLDGSKLDNNSSENDNIYEYKYKHSREKDHTDDE

>gene_211|GeneMark.hmm|183_aa|-|56584|57135 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKKYNIEPASFTAGETVTWKKWIAGFESASGWELVYLMRSQSDDSAIEFAAEIEDDHHLV
TLASNETINYKTGQYWWQCFARRAGEQHIAEGSMFVKPNFSQMDRVDGRSHVKKTLDAL
EAMIQKASRDQLSYSIAGRSLRSLSPSELLQWRDQYKAEYVLRKSGDLNDQVIKIF
GRV

>gene_212|GeneMark.hmm|34_aa|-|57176|57280 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNHDSGEPASDITKEVNRDIDLYMKYGEKYLNT

>gene_213|GeneMark.hmm|634_aa|-|57345|59249 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MTNALVKRISKQAAPPPRLKVSQWADQYRQLSRESSAEAGKWSTDRAPYQRDIMDAVCDP
SVEIVVMSSAQVGKTEIINNIVGYIHHQDPSPMLVVQPTEKLAESWSTDRAPMLRDSE
VFHNLVKDPRSRDSGNKILYKRFTGGHITMAGSNPSSLASRPVRLVLCDEVDRYPASAG
SEGDPVNLAKKRATTFWNRKIVLTSTPTIKDLSRIEAAAYLQSDQRRYVPCTSCGEYQTL
KWGQIKWKKSTCEDSATKSKDQPETAYYVCEVNGCILRDTDKAAMLSAGEWRAENEFSN
IAGFHLNELYSPWVSWERIVAEFLKAKLMPETLKTWINTTLGETWEEQGESVDENSLLSR
KENWGD LAPSGVVIVTAGVDVQDDRLEIEIVGFGKGQESWSLDYRVIHGDPAEDVWNDL
DNILEQTIKHESGINLRIACTCVDSGGHRTQSVYAYCKKRQLRRVFAIKGSGVPAKPIIS
RPTMSNRMRVKLFSVGTDTAKEMIYSRLKITEPGAGYCHFPARYDEQYFKQLTAEKVTR
YHKGFVPRKWEKPAGRRNEALDCRVYALAAALHIINPDLELLAKMKIEGSNDKQHQQQND
YNQRKARSWEVTRGISHQGSRRGGTGGRSSFIKNW

>gene_214|GeneMark.hmm|162_aa|-|59218|59706 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MQTYSISTISKLLNLSERRVQQLSKDGIIPKAERGKYDLVSSVQGYVGYLYARAFGKNTA
SIDAHAEKARLLKAQATKAELELDILKDKYIETEVEFLYGGVLVFRSKMLSMPSKLV
RLAAVGSDFARIEKILEDEIYEALTELSKYGDHDKCISKKNK

>gene_215|GeneMark.hmm|347_aa|-|59710|60753 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MGLSTNISWNLSDLEKIESNGYKVFSCFSCAGGSSMGYELAGYDVLGNVEIDPKMMRLYL

LNLKPKYPFMMGIEQFNHLADKDLPELFDLDILDGSPPCSSFSVAGVRESKWGKKTAFR
EGQKEQVLDLFFHFINTASKLKPVIAENVKGLIIGKARGYVKQIIELFNKTGYKVQL
FLLDSSTMGVPOQKRERTFFVARRDDLNLPELKLSFSETAISTSKALQDVDWRNNKITWLT
ENTKLLWQKTKLGAPLSEAHPKGSRFNEKKLNPNKPATTLTTHCPPLHWALPRRITVSEA
IRLQTFPDDYNFANRDGFYPIGMSVPPFMMQRLANEVQKQWLDNLEK

>gene_216|GeneMark.hmm|167_aa|-|60744|61247 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKIQLINISKLIPYAQNPRHNQLAIKVAASIKEFGWQQPIVVDGNMTIAGHTRYMAAT
QLDLKKVPVYVASSLTAQVQAYRIADNRLHEDSSWDELLELDELKDDSTDLELIGF
NAMELEKLIGDGKTDISNSKSSASREIKLSEFQFAHQCPKCSFEWD

>gene_217|GeneMark.hmm|194_aa|-|61441|62025 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MQISVSSNIKQIAKQLDHMQRRQLPFATSTALNKIAIAAQSSITKAIPFIFNNRKKWWGK
NQPTGIKVKFANKYELVSAVYTRAYFANIQEEGGIKTPRSGHKLAIPASGAPRKRFSNA
LKKEQGNRSRIFKSKSGKSILRRIGKNSIQKLYTLTDKAHIKPRFGFQKTAHKVFIRHFDK
IFQRQLDRALKTAS

>gene_218|GeneMark.hmm|148_aa|-|62040|62486 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MATTEEKSNRMLQLFAPALVGADQANIAAIDVSGFESVLVIANIGAAGDDLNNQNNYIE
IELEESDNNVDFTHCSDESMQDAVAGTNTGTIAHLEAIDGAGISIMAAYKGQMRYPVI
RMTGNHGTGTIIGVSAILRGTKYRPVAA

>gene_219|GeneMark.hmm|167_aa|-|62710|63213 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MKMNTAKLNTLKLQTAKPQTTKLPTPNKNDKRPIAKFHRSWLQDTLSGTPLEKHRGINQT
QYAAADRLSSNYQRIFSNGGWSPEEVQVKQDYFRSNGVERKAESIHNHRIFKQLSKNSQ
AIIHFCLNEQPIRAYELQIPNWPKGAGTARLREGLDELVEIYKNS

>gene_220|GeneMark.hmm|50_aa|-|63408|63560 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MRAQIKRKSVIIIALLQNSLLQMGENAIKRLCHIVTGIQGFLFLHLQ

>gene_221|GeneMark.hmm|771_aa|-|63544|65859 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MSNIIQMVPNALPQRDQLQTFYVLFYSEGLIPCRSFPESGTDNSQRPHNIWIDADELV
MDKAVTFAKWTAREKVAFYVIPGIVSKQGQAGSDDIQMQVLLIDIDSGDTEEKLTLS
AIGQPTMIVESGGITPEGSAKLHIYWQLERPAAGDDLQRLIKLRYRIALAAGGDTHFKSA
HQPIRVAGSIYHKKGACKLVKIRSYEPLEYNLEELIKSAEKLPKCKEEDSSNPLDYNNTT
PVFKDLLISKVYEGGESEQSRFSLQRVTGFWLRRLEHGAITQQQAWEEITGYNAANVVP
AWDEKKLRQLVDGLWRKHVKKHGEAAESGEYDPKPEQKTQESTPVKPAKVASYSGLTFLN
DTSSLPEDIIAPRILTPSGMFVFGGAPKVGKSDFLSLFTHMAAGKEFIGKPPRPLKIF
YFQAEIGYHYLRERLQNMQLSDEIIKLAQDNLHITPNTKLLNNEPGIEAVAAQKSVFQD
ETDIIAIDPIRNVFDGGRDGTENENDAMLFFLQKRIEPLRDMINPNAGIILAHHTKKS
HKQFDEEPFAAFSGASSLRGYSSGAILRKSELDDNERELIFELRNGAHIPTKILNKKDG

AWVEEDSLNKRIAYKTNGTTYDMERERRIMLITKLLQSQASKGKFYLMNQFAQKYQNHKD
LGGRRSIYDDCSIAATKGDIKFFNPNPKDYNPKISNPEKGFGMCTEHMKIHISKTVDSDT
GEIVENNEIILPTHYKNEGDGRKAEMKYPEIWDVDSEENNTINEVENAGSN

>gene_222|GeneMark.hmm|262_aa|-|65929|66717 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
LGVDVMLDYNHRSSKSSAPINDQLNILIDDALVKIRDTQPKRRYLGASQLGVPCSRLQY
EQSGDGKDPGKGFSGQTLRIFAAGHVFEELAIKWLRDAGFELLTNQEDGSQFGFSCAGGN
LAGHVVDGIITRAPKALGLAVPALWEMKSMNNKSWKETVRKGLVVS KP VYAAQVALYQAYM
EESVTGISKNPALFTAINKDTAELYHELIPFDGELAQRMSDKAANIIRATKAGEMPLRIA
SSSEYYECKMCAYQQRCWGDRQ

>gene_223|GeneMark.hmm|179_aa|-|66708|67247 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MQFNDFNNAETSNDLIKKGTIAKVQVKIKPGGYNDDEHGWTGAYVTKNEASDACYLNCE
FTVLNGEHQGRKVWVSLIGLYSSKNDNRWGNIGRGFIRAILNSSRGYSNTDESEKASQARK
INSLAELDGIEFIAKIDVEIDRDGNDKNVIKTAIDPSHKAYLASEQRQAGSAVDNAVWG

>gene_224|GeneMark.hmm|299_aa|-|67237|68136 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNKLPISAGERLSETRGIKGCILGKAGIGKTSLLWTLPVESTLFLDLEAGDLAVAGWGG
DAIRLRTWSECRDFAVYLG GGNPALRDDQPYSKAHYDAVCKRFGSASSIEKYETIFDSI
TVAGRLCFNWSKNQPQSYSDRTGKEDIRAAYGLHGREMISWITHLQHSRDRNIWVFGILQ
EKLDEFNRKVFSMQIDGSKTELELPGIVDQVITMAEIAGDDERPYRAFVNHTINPYGYPA
KDRSGCLRVL EEAHLGRLMEKIKRAQQDGKNLTYDMAKESVNNLNKQSNKQNKENNYAI

>gene_225|GeneMark.hmm|171_aa|-|68129|68644 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MDDINYRNDIAKMTTKEVLHIPIGTVSNYASLLYDLHKEAVA EFEDARKTRQWIESAI
GMKYEEKVRAKVRLEKDSGIVHIEDDEFQITNDAPKKVEWDQRKLRGIMAGLIANGVDL
DELVETVYKIPERRFAECSSILQGSFAAARRVRLGKESYKLSRLETGGDHE

>gene_226|GeneMark.hmm|86_aa|+|68904|69164 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
LNEKTMKLV TWMKLSNLTQGQLAKLINASPQRHKKYLYGGAIPKEKAIHEIYIKTLGSVR
PEDFYKETS DIFEQELLKKQAIDGEA

>gene_227|GeneMark.hmm|117_aa|+|69169|69522 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MNKKPTILTIDLGTQTGWAVQAQTGKISSGTESFHRTRFEGGGMLFLKFKRFLTDLKNRY
AGLDYVYFEEVRRHLGTDAAHIYGGFLGQLTAWCEHHNIAHPCWNHQAHSWQRQCL

>gene_228|GeneMark.hmm|105_aa|+|69655|69972 >NVVL01000003.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MITTPSKPADIKQLNTAIDQLNEFLSKDYITLLQQQYLSPETVAKIMEVKTSLLSNWRV
TGGGPSYIKLGSRSRGLVRYPLLGOAGLIHYMQQKLQNSSSDDKI

>gene_229|GeneMark.hmm|399_aa|+|70047|71246 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MIKTDMKNIKASNKFKITKLLDDLPSNKRYYIWDSELPNFGVAVQKTGYKSYFLDYTT
QDQKRRRIKIAIVGEITPDEARKKAYKHVLLISQGSDDLPGKQLKNDEPTFKDVAEEYIE
KHAIPFKKATSIAGDREMLRKHILPFFEKISIKEVKRADIKEFHYYQLREKKYTANRCVQL
LSKMMNLCEEWGYRDPGSPCKGLKKYKEDAKERFLTLEEIKRLQLALDRFHESNQxPYF
PPLIRLLLLTGxRLSEILKCKWEYINFERKVIELPDSKTGKKEIILCDRSMTILNNIKHI
PNNPYIIVSSKKEGTHFNNPRKSWAKLLRIAGLEGLRLHDLRHTHASIALMQNIPLEVIG
KRLGHKTIQTTMRYAHLADSHLRKATDIVSNALGQAMGG

>gene_230|GeneMark.hmm|51_aa|-|71380|71535 >NVVL01000003.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1001, whole genome shotgun sequence
MGSNTESKAEGRGVGLALCKAVIEAHGGEISAESRPVGFALFRVCLPYGKGV

>gene_231|GeneMark.hmm|165_aa|-|220|717 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MEIPTLKELEQIEVTNPAADIAQREKVFPCRSRKSTPDGGGYGTGRRKNSIARVWVKPGK
GIVTVNKKLCAEYFSRESYVTSIMQPFLDTNTNGQFDVVCTVKGGGSTGQAGAILNGIAR
ALDAISEDYHSLRKNGLTRDSRIVERKKYGRRKARKKAQFSKR

>gene_232|GeneMark.hmm|155_aa|-|724|1191 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
VKTYSAKPSEIEKNWLVIDAKDLVLGRLASQVAILLRGKHKPMFTPHMDCGDNVVIINAQ
HIHLGKKGDRKDGKFFYRHTGHPGGIKETTAGKVLGKYPERVVEMAVQRMISRNMGR
KQFGNLHVYAGSEHPHTAQQPQVFDVADRNSKNKK

>gene_233|GeneMark.hmm|437_aa|-|1287|2600 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MNNISLKKSIILLSLANLFFFFQFILRLSAGVFRDIMQRFVAVDVASFGTLGAYYYLGYA
GAQIPLGIMDLRSLFRVTSIAIAITSIGTLLFATAMDWGMMLVFARFLIGISGVAFISI
VKIIKTCFDPKHTSMLIGFSFTCGLLGAVFGVIPMRILFDNLGYEDTFYALAIFGFFIAA
IMFIFAKTGNEDRAGNEDEKNNSSVRDSLKSVMSLMLNPTILIGISGGLMVGALEGFAD
VWALSFFHHVFAMSRAESA AVTSSVYIGMCVGGPLLAMFANILRSTNLMIFITGMLTIIV
FMILFYVPSLSVYSATILMFFLGILCCYQALVFITTTKVSESSAALAI VVQCINMSFG
HFFHSVIANIFVKSWDGMIGESGGAIYTLNENIYALAIPIGCGVGQFGFVYLSWRAKRR
GSESAVSSQLCNKMSRS

>gene_234|GeneMark.hmm|373_aa|-|2816|3937 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSKQEISDYIRDAGFFKDLKDLQLAITDISEIESYANSEVVFKEGEKSRDLFLIISGGV
DLYKLSQHKYVFFTSLDTNNFIGEMAFVDGSPRSKVISNNDTKLMKISYAFLEKNHPKL
LNILMPKIARIIMERLRKSTSTHVQTIKLNQQFKIQNEFGYFFIAIIMAFATSAFMNKI
LEHFNIYEPGYSTLLYSWAYLITVSAPFLALLCIFKYKLSTLGVTSKNLRVSLVESVIVG
SIAILLFGTFSVLGIEVDILGDVDYRENVSSFTFLKLITYMIHSLVQEFVARGLLQHS
IQRFLDRRRGIKSVLITSTLFGVGHHLHITISVAAMTF AVSVLLGLLFLRHKNIWGISLVH
FAMGVVGVIVSGVI

>gene_235|GeneMark.hmm|825_aa|-|4040|6517 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MNLSSFITNIPSNALSVEYDLLFVLAAYFVSICFSYVMLDIADIVQKNGDENKNSWFFFG
AITMGIGTWSMHFIWHKSIQIHMSFEVHVESLIFTIFASLITLILRVSNNKLRIFA
GISVGITIIIMTHFICMEGMHQEMNIVYLPNLVILSVMISSLGTMAALWMMQDNIGWQF
IVKVLGALLMGGSCVAYYVGTEATIFMPMHNNMHPMEGSQAQAWMTPAITLTIIMGI
FIALSMYKLVLATSULLKNEEIARRKEANLRLEIKVKERTAQVEVALEKAKLANRAKSTF
VANMSHELRTPLNAIIGLSELLVEELEEAADKEYLEPMRRINSAGRHLGLISDILDLSK
IEAGKVELFIEEFSIKDILEEVRVIEDPIAKKNKDKLIFDYSKGDIVIKNDITKVKQILV
NLISNACKFTTDGNVTLTVLHDKKSDRIQFIVKDTGIGVTKEQKAKIFSAFSQADSSTTK
KFGGTGLGLSITKKICELMGGTISIGGESGKGTVFTVDLPVSIIEGVITKGTNEGANAENV
VDAHISKIKSHQSKDLKILVIEDNDVERDLVSRVLSAGYKVSANNGEDGLKLASSPPM
PDVIILDILLPGMNGWHVLTCLKSNPDTWGINVIVTTVLEEKNKGYTMGVSDYIVKPIDK
KQLLGAISRYVLTNKLNSDDLKVLIVDDDPDARNILKNMLTKYKVKFDEAVDGGKALES
IKKSKPDLIILDIMPVMDGFAVVDTLKTSSKWSDIPIINTSKRLDEEDRKKLDGGVIN
ILQKTKQDKDSMFKLIVELVRNHKDHKDHKDHGGNKGSKDHKGNK

>gene_236|GeneMark.hmm|527_aa|+|6784|8367 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
LPTGLALLIVNIHRDDFIMSEEVSSSISLFSKIRHRSKARQMLWPIRSYELKRFLPMAFLM
LFILLNQLNLRVVKDGFVVTMIGTEVLSFIKLWVEMPIGVLFVVMYTRLCNFMTEQIFR
IIVSIFLGFLLFAFVIFPNKELFHPDPLIVQHYIEMFPHMKWMIVMWGKWSFVLFYVMG
ELWPMIVFSLFFWQLANKITNTQDAKRFYIFFGLIGQTNMMISGTIIVYFTQSQHLLPF
FANITDSSEIILKSLTILVMISGVICLMLHRYIEARNINTLKGIEFKNERTDLLKLSLKE
SVKMOVFTSKYLAICILLVSYSTSVNLIIEGLWMSRVKALHPETKDFIAYQGNVLYWTGIS
TLIFIFIGSLVIRRFGWFWGAVITPSMIFIAGSMFFTFVLLDQLDIIFAGLTSVAPLGI
IVFIGGLQNVLGKAKYSLFDATKEMVYIPLDKEMKTKGKAAVDIIGAKLGKSIGATVQM
LTFTIFPAANHEDIAAGFLMVVVFVIVCMMWIYGVKLLNREYHQLLSRA

>gene_237|GeneMark.hmm|313_aa|+|8415|9356 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MTKHWFSQMALDLFNQPFMQLLYEAQTIHRANFDSNKLQISTLLSIKTGSCPENCSYCPQ
SAHYNTGLKKEPLINIKIEVIESAKRAKEAGSTRFCMGAAWRGP HDRDLALVCDMIKEVK
LELETCVTLGLLKEHQATMLKEAGLDFYNHNIDSSKEFYEQIITTRCFEDRIKTLDHVRN
AGIKVCCGGIIGMGETNEDRIKMLIMLANFKDPPESVPINKLIKIPGTPLENVEDVDPFD
FIRTIAMARILMPKSYVRIAAGRENMSDEMQUALCFFAGANSVFYGEKLLTAENPVPEKDH
LLFERLGMSKLP

>gene_238|GeneMark.hmm|481_aa|+|9559|11004 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSIVPITVAYGDGIGSEIMSAVMYILKESEAKIRVETIEIGEKLYKKNYSSGIANDTWES
LERTRVLLKAPITTPQGGGYKSLNVTLRKALGLYANVRPAMSYHPFVNTLHPKLDVVVVR
ENEEDLYAGIEYRHRNMRESVKLISRSGCEKIIRYAFEYAIKNNRHKVTGFTKDNIMKF
SEGIFHQVFDEIAKEYPTIENEHYVDIGTARLATKPEIFDVVVTSNLFGDIISDITAEI
SGSVGLAGSANIGKDYAMFEAIHGSAPDIAGQNIANPSGLLNGAIMMLVHIGQGEIASNI
ENAWKKTLEDGIHTVDIYDEKTSKKGVTKEFAEEVVSFRFGQKPSKLIKATYSNAPAASS

QEFSYNIDMSEEKLVGVDIFVDIHANSADEVASKMGVIDSGSLNLKTISCKGLKLWPRD
DEYLTESDHWCCRFPESGAITHHTQIAALMTKLSEANIDFIKSENLYEFDGNGRYSLAQG
E

>gene_239|GeneMark.hmm|46_aa|-|11071|11211 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
LGALVFIEFDDSADCWGYMKNRYNQLRFLMRFSLEATLADQKYGVF

>gene_240|GeneMark.hmm|666_aa|-|11227|13227 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSRQVHQLRGRSGMPLHYFFSPQEIVKIWFSGNPEEQTKIKECLFSKKDTSNIGHYRDQE
EAKARGIFAQQCIAQSRVVSSQPNVVSSKIEKVTTNLFRLYVDDEVPLEEDREFLEKRL
SVFTQIYGRSVGADKTQYAKVINGLIKLLIHPRNNNKDFVDLLVKGAKCLVDIDKMLMI
SMLNELATLYLTQLDHAGAVFAKVAYTLSGDFDVTIVKGNVDVIDVTIDKGNAAAYNFAL
ALKYIKPHKSLKLLKEALIFLPEDADVKNIAIVTQILQGNEEVLFSPVNVVDNIEGQG
FWQKALYAVYDLMQNKDSSNRFILYNLTVILKILYKNEDWEQAQKFIEIYLVNLPNPAED
HSFIILLYEYLVYEMNGESDSASAIMERMSSFPKIAESVADRANILHGVKSESGHDYVS
ALEYFEKIKHAATKNCYVAACEVKRGEYSELTQEYHKKQQECYEQQRAAVLAESILGTT
IQEESPSWLVGESYHASQDNVILIEATCHLPDYAVISPKLELDEVSYAQYLSALQGGV
VTHSNGQNGIKTLRKKVLEIKIAADSRLVTSCKYQNDAAEEVLVFDHICKNHEALQRYIN
KSKGITTQMVPSAIPDLDSLGLDFRGELPRPDEDELKMPPPAVVQENPEDAVVVAIG
DSEQPT

>gene_241|GeneMark.hmm|312_aa|-|13451|14389 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MGMLIDGKWTDQNQSTSADGKCFVRKQSSFRDFIGSKRFPANRYHLYISHACPWAHRAV
VFRKLGLESIIISLVNSFMGENGWELGEGSDPINGKMYMHEIYTLADPSYTGRVSVPV
LWDKQEGTIVNNESEIMRMFGSEFDAITKNSKDYYPENLRAEIDEVNEFVYENINNGVY
KTGFATAQLVYETEVAKLFAALDVLEKRLSQHRYLVGNVLTADWRLFTLLRFDLVYFG
HFKCNIRRIADYPNLSNHLRDLYQTDGVSDTVNIEHIKTHYYTSHIAINPMGIVPAGPEF
NCSTPHDRKRF

>gene_242|GeneMark.hmm|356_aa|-|14418|15488 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MQTDIAIIGSGPVGIFAAAFQAGLLGMKSCIIDALDSPGGQCSALYPEKPIFDIPAHPEIL
AQGLVDNLVEQAQFDPVYLLSRQVTSMQVAGMRGAGMSDAGVHDAGMHDAGGPDADGCF
ELETSGDHSVRAKAVIIAAGAGCFGYNRPLADIKSYEDKSVFYFVDKRDKFASRKILIA
GGGDSALDWASLASIAEVSLVHRRAKFRAAPSSVAKIHELADAGKLELITGFQLEGLSG
KDGVLERVTLADLDGNKKHVDADILLPFFGLSQDLGPLEMGLDIKGHNIKANYPHFETN
IPGVYAVGDVATYEGKLLKLSGFSEAAALHHAYARVFDGKALHFEYSTSKVGKK

>gene_243|GeneMark.hmm|245_aa|-|15880|16617 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MRVLLIEDDSSTARSIELALAAEGVVVDRAEVGTDGFELARLYEYCAVILDMLPDIIDGY
EVLLRLRSKIKTPVLILSGLSSVDQKIKGLFGADDYLTKEPNKDELIARIQAIARRSK
GHSESVRFDKVAINLDTRVVEVDGNQVHLTNKEYAILELLAMRKGTVLTKETFLNHLYS
NLDEPEIKIIDVFVCKLRKKLSNASGGVNYIETVWGRGYMLKDYDAPTSNLLAEYAKTD

SPAKA

>gene_244|GeneMark.hmm|152_aa|-|16814|17272 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSTQAPNNEDMPHIAVNAQYIKDFSFENPGAPGTLGFEAPQIDLALDLNIQKMPEDNY
YEVEIAINAKAVIKKEVLFIVDLKYAGVFTLINIPEEQLEMLLAVHCPAIIFFPYARKIIA
DATQDGGFQPLMIDPVDFGVLYNKKMTEGRES

>gene_245|GeneMark.hmm|188_aa|-|17324|17890 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSIMSDKWIREKSLKEAMISPFVGEQVKVAESGKIISYGLSSYGYDARVAREFKIFTNIN
TAIVDPKNFDNDSLVTKETDVCIIPPNSFALAHTVEYFKIPSDVLVICVGKSTYARCGII
VNVTPLPGWEGHVTLEFSNTTPLPAKIYAGEGACQFLFLKGNEQCSVSYADRAGKYMGGQ
KGVTLPRRT

>gene_246|GeneMark.hmm|434_aa|+|18172|19476 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MKNSKLLLTATALLSFSAGAMEMEKPSGTPVVSDDLTVKISAFSHFQTGMRKQKNLTEK
EKNVSAKRKTFANSESAMSLEVSNYVNDFKYGGKIVLVPTNKRKGGSFNGSHIFTETNY
GRFEAGSPLPASYKMQVDGHDIAAAPATNWSRYVDFSTEDMMQKQSIEPSFAVVSDFFLD
SKLATKLDNRNYSSEPARSISYYTPKFALGQSSKVQVGVSYAPDSSNTGAEKHTKVSSGL
SIRNINKDGTDRFEIDSSVRDAVSAGITLQNFSDGIDLKVGLTGEYANASGKATKFEND
VEKESYKLSPLRTFNIGAILNVGMSYAGSFGSLGKSLTTPFHKTRSTKYTGTVAYK
QGPF AASVSYFKSNQYENTVDAISIGTHYVMAPGFKPYVQISTFRLKKGKPEFYKLEKKK
TRGTVALIGVKLSL

>gene_247|GeneMark.hmm|409_aa|-|19796|21025 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
VKNYLSISEVKVGLNFDKIIIPVGRLLVAQKHKVFEYATSFIEKGMESISPLKLPLQAGVS
VFDRNLFEGLPGVFNDSLDPDGWGRLLFDRFMRTQSVLPEELTVLDRLAHTGNHGMGALVY
EPDHSPEKTGDIINLNLVLAEEAQLAGSAGDVLQNLALNGSSAGARPKALIGVDASRE
NISHGFCQLQEQEDWLVKFANSQDGNDSGAIEYVYALMALEAGVDMPDVHLFPDGKNAG
YFAVKRFDREGTKRIHMHTACGLLHSDFRTPSLDYRDLIALTGMLTRDACQVEKMFRLAV
FNVLAHNRDDHAKNFSFLMKESGDWKLSPAYDLTFSAGLWGEQSTMVVGEGKPNIDHLI
KLGLEAKLSQRNIDSIIETKTALAQWKNLAKQYGVSQLNINLITTKIS

>gene_248|GeneMark.hmm|102_aa|-|21022|21330 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MVSLITPFEAQKKLAEAVQARRLGMELTQEGLAARSGVALPTLRKFEQKGLISLESFLKI
LMVLGGLDDVVQAITPEKTAFFSIDDVLKANDKPTRQRGRRK

>gene_249|GeneMark.hmm|1376_aa|-|21656|25786 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSQRNFYSQLGNTQDFDQIRINIASPEQIRSWSFGEITKPETINYRTFKPEKNGLFCSRI
FGPVKDFECLCGKYKRMKYRGITCEKCGVEVTTASVRRERMGHI LAAPVAHIWFLKALP
SRISTLLDITMKDLEKILYFENYVVVEPGMSPLQKGDLLSEDFVKAQDEYGEDNFVAMI
GAEVRRMLSELDLELSAQLKAELAETSSETKKKKIIRLKLVENFLTSGNKPEWMVMT

VLPVIPPEIRPLVMLDGGRFATSDLNELYRRVINRNNRLKRLELKAPDIIIRNEKRMLQ
ESVDALFDNGRRGKVVKNANKRPFKSLSDMLKGKQGRFRQNLGKRVDYSGRSVIVVGPE
MKLHQCGLPKKMALELFKPFYISKLELYGIATTIKAACKIVEAEKVEVWDILEEVIREHP
VLLNRAPTLHRLGIQAFEPILLIEGKAIQLHPLVCAAFNADFDGDTMSVHIPLSIEAQLEA
RVLMMSTNNILSPANGKPIISADKDVVLGLYYLTQMLDGDIGDGMFAFNDIKEIEFALFEK
VVTLHTKIKYRIEMLNADGEFVETLVDTTPGRVIMGQLLPKSKELDFKLLNKEMNKKNIS
SAIDSIYRYCGQKATVIFADKIMELGFKHACQSGISFGMDDMVVPSAKTKIIKDASAVVG
EFEKQYLEGLITYGEKFNKVDAWTACTIONDKVAASMMEEISRPEGKTKQEEFNHMMMA
VSGARGSPAQIRQLAGMRGLMTKPSGEIIEPIKSNFKEGLTVREYFNSTHGARKGLADT
ALKTANSGYLTRRLVDVAQDCIITDDDCGTEKGIEIKTIIDGGEVIVSLSDQILGRTVSA
DTHHPVTGELLVAACGLIDEKLDTIESSGLDLIHVRSVLTCEKFGICARCYGRDLASG
TLVSKGEAVGVIAAQSIGEPGTQLTMRTFHIGGAATKGTEVSSVSASYEAKVKVIGRNLV
TNSVGAQIVMGRSCEVLLLDVKAERARYKIPYGSKLMIDDGCKVEKGQMIAEWDYPYSIP
VITEKSGKVLFDLVEGVSIRTVVDDATGISSKVVIESRQYSKGAELAPRIQLVDAKGS
VEVLEGEVVKHYLSVGAILSVEDGTEVAAGDILARITRESSKTRDITGGLPRVAELVEAR
RPKDHAVIAKLDGRIEFKDYKSKRRVVLHPADGSDVVEYMLPKGRHVVVSEGDFVVRGD
MIINGNPVLQDILKVSVEALAHYMVSEIQAVYRLQGVKIDDKHIEIIKQMLQKVEVTH
SGSTLLPEELIDLRTLNEINDKIVKEGEPARYEPVLQGITKASLQTKSFISAASFQET
TKVLTEASVAGKVDTLKGLKENVIVGRIPAGTGFYMSMAKKEAARKDAIIEKSKA

>gene_250|GeneMark.hmm|1392_aa|-|25902|30080 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MHRCYDEIHSQYTSVIDIEISGDLMPQPLQTSKRIRKNFGKIKLVASIPNLIEIQKKSVD
AGFLQIDSPGDKRENKGLHSLASIFPVQDQSNATLEFVKYSFDAPKYDVEECIQRGVS
FVAPLKVTLRLSVWDVDETTGAREIKGIKEQEVYMGDIPFMTKTGTFFVINGTERVVVSQM
HRSPGGFFYHDDGKTHSSGKFLYSARIIPYRGSWLDIEFDAKDLMYIRIDRKRKLPVTTL
LMAIGMGSKEILEHYDTEYDYGKKGWVDFDPARVLSHRLVNDLVDADTSEQLLEAGQ
KITPRLAKKFAENGLKKVLCQDDLLIGSFVKGEMVDAASGEVLAELGEQITEELLGKLLS
GGAKSVSVLKVANQGDAYIRNTLFADKNQSQDAALVDIFRVLPRGEPATVEAGQALFESL
FFDPNRYDLSEVGRIKINSRLNIDIPLNTCLTKEDIKSIIRVLIDLKDGKNSVDDIDHL
GNRRVRSVGLVENQFRIGLVRMEKSILERMGAVIDTVMPHDLVNSKSLALVVKEFFNT
SQLSQFMDQTNPLSEVTHKRRMSALGPGGVSRRDRVGFVDRDVHPTHYGRVCPINETPEGQN
IGLINSMAVYARVNKYGFIESPYRRVVDGFVTDEVIYLSAIDEGKYKIAQADMEIGAKGK
IMADMVSCRFEFETGNFVSVVPAEIDFVDVTPMQIVSVAASLIPFLEHDDANRALMGSNMQR
QAVPLIGAEAPFVGTGMESIVARDSGAAIMALNDGVVIEVDATRVVVQTVKPKKEGGAPEV
DIYTLMKFRKSNHNTCINQKPLVSVGQKVSERGEIIVDGPADQGEIALGRNTLVAFIPWR
GYNFEDAILISERIVKDDVFTSIHIEEFEIVARDTRLGPEEITRDMPNVGEESMRNLDEV
GIVHVGAEVKPGDILVGKVTPKSESPVTPPEEKLLRAIFGEKASDVRDTSLYVPPGASGT
VEVRVLSRRGVEKDERAVAIEKLQIEKLAKDRDDESIIIDHFVFMREKVLGEVVITGP
KGVKPGSVIDSLLSGLSRGQYWQITVENNSVMDEIEQIKQYDEKKDQINRHFNTKVER
LQSGDDLPPQGALKVVKVFIATKHKLQPGDKMAGRHNKGVISRIMPEEDMPFLEDGTVLD
VVLNPLGLPSRMNVGQILETHLGWAAKNLGNVGMLEKYSNNDIDIDSMKDFVSKIYKG
SDVAKQVKDLSKEDFIEFCGTMKDGVIYFSTPVFDGAKVEGVKSMLELAGQNSSGQVRVMD
GRTGEYFDRSITVGYKYLKHLHLSNKHARSIGPYSVLTQQPLGGKSHFGGQRFEGEME
VWALEAYGAAFTLQELLTVKSDDVSGRIKIYENIVKGDSNFTSGVPESFNVMIKEFRSLC
LNVQLEKGSKSE

>gene_251|GeneMark.hmm|123_aa|-|30387|30758 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MADITKIAEDLSSLTVMEAADLSKMLEEKWGVSAAPVAAAAAPAAGGAAAEQTEFDVI
LASIGDKKIEVIKAVRVITALGLKEAKGLVDGAPSPIKQAVSKSEADEIKAKLEAAGATA
EVK

>gene_252|GeneMark.hmm|169_aa|-|30791|31300 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
VLRSNKNCVTELEEIYKISNSVIVTHYHGLTVTEVTKLRRSLRENGASFKVVKNTLSKI
AALNSKFAGDPPEMFAGPTAIAYSEDPVAAAKGVVEFAKSNDNLKIIGGVVNDKILDISAI
QQLAKLPSLDALRGKIIGVLQAPATNLARVTQAPASALARVLQAYADKN

>gene_253|GeneMark.hmm|227_aa|-|31315|31998 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MGKKIAAVRKEIESGKEYSLKDAISVIKNSFANFKETLDVAINLNVDPRHSDQMVRGMV
SLPSGSGKDVKVAVICKDDKVAEAKGAGADMAGSVDIIEIKSGKINFDVCIATPDMMGV
VGQVARILGPKGMMPNPKLGTVTTDVATAVKNKSGQVEYRVEKAGVIHAGIGKIDFTEG
DLLKNAESFIGSVIKAKPSGVKGIYMKSIFLSSTMGPSLKVDLSTIS

>gene_254|GeneMark.hmm|143_aa|-|32024|32455 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MAKKISGYIKLTIPSGKANPAPPVGPALGQKGVNIMEFCKAFNAATSSFEPGTPVPVVT
VFVDKSFTFITKTPASFYLKFAKVKKGAGATKKEAYVGKVTMADCEEIAKIKMEDLNA
NDLAAAAKIAGSAESMGIEVVK

>gene_255|GeneMark.hmm|176_aa|-|32501|33031 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MAKWYILHAVSGAEKSIQKMIEDQVVKKMSDLFEVVVPVVEVPEVVRGKILVEKKFM
PGYILIKMKTDES WHLVKSVPKITGFLGSKTTPQPLSDAEAEAI FRKVAESEQASASS
LYNAGDKVQVIDGPFDSFSGTIESVDGEGQKMKISISIFGKATPIELSFVQVKKND

>gene_256|GeneMark.hmm|107_aa|-|33043|33366 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
LHLREKYDRSVAQLVERRSPKPKVAGSIPVTPATLLIDVGC MFKGLKSYKFFEQVKQETK
KVVWPEKKELTTSALIVVSVFLFSIVSLIVDYGILNLVQMLLNIGK

>gene_257|GeneMark.hmm|692_aa|-|33424|35502 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSEKCLKLSDVRNIGICAHIDAGKTTTTTERILYYTGKSHNIGEVHDGGATMDWMEQEQR
GITITSAATTCFWKEKRINIIDTPGHVDFTIEVERSLRVLGDG AITVFDGVAGVEPQSETV
WRQADKYHVPRMCFVNKLD RAGANFYRCVDMIVDR LGANPLVIQLPIGIEDEF LGVVDLV
KMKAITWSSEGLGAEFTESEIPADLKEKAEYRAKLLDMAAEIDDAIMEKYLDGAELTED
EIKFCIRKGTIAGKFVPITCGSAFKNKGVQPLLD DAVIDYLPSPEDIPA KAIKIDSKTGEEK
IVKSSEEGEFSGLAFKVM TDPFVGLTFVRIYSGRIT TGSSVINTVKNQKERVGRMLLMH
ANDREDIKEACAGDIVA IAGLKN TTTGDTLCSANAGV VLERMEFPEPVIQLAVEPKSTAD
QERMGFALAKLASEDPSFRVSSSENGQTNIAGM GELHLEILVDRMRREFNVEANVGAP EV
AYRETITQAHEVN YTHKKQSGGAGQFARVKIIFEPGESGSGFEFVSKVVGGSVPKEFIPG

VEKGIKSIMATGVVAGYPMIDFKATLIDGAYHDVDSSVLAFEIAAKAAFREGMPQAGAKL
LEPVMKVEVITPEDYMGDIIGDLNSRRGSVQSMENRGNAAQIIAHVPLSEMFGYVNTLRS
MSQGRAQYSMEFDKYAHVPTHVVDNLSKQGG

>gene_258|GeneMark.hmm|160_aa|-|35509|35991 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSRRHAAVKRVVVPDTPKYKSVLLSKFINNLMKDGKKSIAEKIVYDAMERVEKKHGANPLE
TFNESINNVKPYVEVSSVRVGGANYQVPSVDERRGYALAIRWLVDAQAQRSGRSMVEKL
AEELFDAANSRGAIAKKREDTHKMAEANKAFAHFAQRQQR

>gene_259|GeneMark.hmm|123_aa|-|36027|36398 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MPTNNQLVRFGRKSKVRKTNPALRSNPFLKGVVIVKTVTPKKPNSALRKIARVRLSNG
EYVNAYIPGEGHNLQEHSAVLVRGGRVDPDLPVVKYHIVRGALDTQGVKGRKQARSRYGVS
AKA

>gene_260|GeneMark.hmm|214_aa|+|36658|37302 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MYEIFYSLFGYNKQLFLTINHYTNIGALPQVLQAISVFFIANFAIGYIAACVYVYKSK
KAPNQEAYFTPIYNELVRLGACYAMFGFVFAGLKFSVNLQRPFCSLPPADFITIADTSLE
RCLSSFPSAHTGLAILVAYCFWRHMNPALKILACLAMAVATSRVTLAMHYPADIISII
ATLISILIGNNIYALLKNLVVRPIGKMIARLLFN

>gene_261|GeneMark.hmm|281_aa|-|37334|38179 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MGLIAGLYIVSTPIGNLGDISLRALETLKSSDVILCEDTRVSGKLLAKHGIKASLKVYND
NSDNSLRRTIKGYIAKGMASVSLISDAGTPLISDPGYKLVRELKADGHHIDAIPGACAAIT
ALTLSGIATDRFLFAGFLPKTKEKKKKAFFEFADLNATIVFYETANRIVSSLEVAIEVFG
DREANIGRELTKLYQESRSEKLSVLEYYKNNPPKGEIVFTISPKSEDELSIDDIKDELS
AKLSRGESARTASDEVFSKYKGRISRKEVYKLANQLKNEVK

>gene_262|GeneMark.hmm|380_aa|+|38205|39347 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MHNIKQKFLKYIFSVCFAFLGSCSQTGDYFKAGNAADIAILLPMSGVEAEMGMEYAKMI
KMGIKDSAASKIKVTIYDSANQEALEDSDKILNRGTDIIIGPIYSGPTKIVAEKAGSKG
IITISFSNNPTLAEQNLFIYGHAPMRQLEQITNYFLDNGHKNYIALLPSGKHSNVVSKIL
REMIIDGDGILSRLELYGASPEDIKSSVKIVSETASQLNESDLNLTQPVILIADDPVTLE
MVYANIRKYGLDKKAIAGDSRINIDSPFNTNISFTGTLGVANEKLAARARKAGVRHISF
MHALAYDAGKMTGKYIGKRYNKEEFLTRMNSKEEFIGIAGRIHFIDSIAQRKYDVIRKEN
GIYVGDVVKRGYGRSSPVHSR

>gene_263|GeneMark.hmm|419_aa|+|39598|40857 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MRKIVISGMIGNALEWYDYALYAQFSYIIASKFFPPSEFTDILTFVAFACGFVVRPIGGI
LFGHIGDRYGRKMALVLGILLMAIPTAGIGLLPSYDSIGIAAPIILVLIRLVQGFSLGGE
FSGCIAYIVEHSPADKRLAGSASFVSMCLGMLLGLIVANVFTYVLSEEDLLSWGWRVPF
VAGLFIGLVGLYIRSHLSESPYKAAKAQGALSRTPLRETLTKYWREVLIAITIYINVT

PFYTTTTVFIKNYMQTLGYANEQGSVLCALILITLIITFPISAHISDKIGRKPVIVWASVA
LVIMIYPIFLALHSMNYVIAILSQVLFAAIVGVYMGVPVPTLLVELFPTRVRFTGVAISYN
LSAAIFGGTAPMVGAALYQFTGEQISLAYYLTLGLAFFCLCTLYFYKETYRNDLAGDYNT

>gene_264|GeneMark.hmm|224_aa|+|40854|41528 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MNDNIFEVPEGENKVLHSCCAPCSGPLIEKIVNDGIDLTIFFYNPNIHPKKEYEIRKQE
NIRFAEKLGLAFVDADYDVQNWFSRAKGMERDPERGRRCTMCFDMRFERTALYAKENDFK
IFTSSLGISRWKNMEQINECGVRAASHYPGTTYWTFNWRKNGGSARMYELAKEEEFYKQE
YCGCIYSLRDTNDWRVKNDRSEIAIGEEFYREKLQNTEKTSQNS

>gene_265|GeneMark.hmm|333_aa|+|41530|42531 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSDSHDFPTTDKPHKMNNSSSSDKPPQMSNSSSSDNLRKTSGWLNIIKPRGISSAKAVSL
IKRAFRGSKIGHTGTLDLEAEGVLPPIAIGEATKLVSLIDAKKRYNFTVKFGAKTDTADS
AGKVIETSNHIPSEEECHKICSQFIGKVEQIPPAYSALKVNGQRAYKLARAGEEVKLAKR
CITYDLKCTSVDHEAQTASYVCDCKGTYIRTLAEDISLSLQSLGFVLQLRRLKVG MFD
AASAVDISDYMTIDFAEATAFLQNKCLKIEDVLDIPVLEASESQTQKIRFGQNCQFEDD
QDYDLVWVRHNSRIVAIGSLLSNNFKSSRVFNL

>gene_266|GeneMark.hmm|91_aa|+|42542|42817 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MTMSITQKRKTDLIKEYATVANDTGSVEVQCAVLTERIKNLTDLHLENFKDFSSRRGLLI
LVGRRRSLLSYLKKQSTDYAVLIAKGLR

>gene_267|GeneMark.hmm|141_aa|+|43150|43575 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MLSTWLFAGITVHCLIGCVIGEIIIGLSIGVTMQLHPVATMALATILAFITGMILLATTSV
VRNRKTTYMLAIRIVWLGEVVSISVMEIVMNGVDYIYGGVGAQSITDPIFWKGLLFAIPA
GYFAALPVNYLIKKNLKCH

>gene_268|GeneMark.hmm|358_aa|-|43723|44799 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MKINKPINLRSDTTTPQTQNIIDAMTSTPVEDAAYGEDMATNELSEYCKELFQVEDAVFL
TGGMLANRLAIASQTSPGDEVITHHNYHINFFDSAGNAKINNVVLNCNHNPTGVLSAHDV
EEAINSKPRYHMCSQVKLITIENSINGFNGKIYPFGKQVELYKYTKDRDINLHLDGARIF
NAHIETKIPLAEYAKHTDTMSFCFAKGLGAPFGSMMLGRKEVIEKVRIMQIWLGSYHQI
GYANAAKYALQNNIPRLSDDNKNTKILADKIKSLPHIKLILPYPETNLTFSIKELGVS
NDIFLDECKKLG LLLFPWLEGQIRAVVHLAVSHSDIKQAAKIIETVILDTLPLTKVRG

>gene_269|GeneMark.hmm|590_aa|-|44810|46582 >NVVL01000004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
VTETRLYNFRKVFAFIILKLLPPFKFNIFVMLLVVAMIWAFDLSFRQYIIKNILNGLVGSEG
VGVAEQIWQPACMYIFMALLITTTFRAYGYFVDVRMCPALRQNIKFAFQKLLTHSHVY
QSNFAGSLTHKVNNTDSIIELVKLSIDRFFGCSLALILSIYTLFLVNINFALVTLIWAG
ISTIMSIFYFQKLSLDRDYSASSASVSANIADSLINITTIRLFHSRFSEYKLFKVKCRK
KLIAERKFNWTFLLIWCIHGYSFNFLQIISLYFLIDGYQAGTITIGDFALVIGLNLEIVD

FLNRLVKELALFSDHYGRVVDALSTIFIDSELQDQIDAKPLKVASGKISFDKISFAYEGK
KPLFDNFSVTINPKQKVGLVGYSGSGKSSFINLILRFLDLAGKIIDGQSITEVKQHSL
RQKLAVVPQDLILFHNTLIANIRYGKFDASDEEIRASRFAGIHEFISGLPCGYDTIVGE
KGIKLSGGERQRVLIARAFIKNAPILLLDEATNQLDSITEQEIQNSLFLKLMEDKTTIVIA
HRLSTLLHMDRILVFEQ GKIVQDGT HDELIVQGGLYRKLWNAQSNDMIRY

>gene_270|GeneMark.hmm|340_aa|-|46601|47623 >NVVL0100004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
LKKMNFLLDQDGFVVIKNIPEKAIESCTYHIKDAINQASAEKVDVADYLHATGRWATKS
PITRIANIVDQDIEARLAELCSSKIIQKSNVICKTADLVDAIPFHQDISYSRRDPYHF
SVWLALNDVDKNSGALQVIKNSHTLPIEPAADFWSPLYFSDKSNQEKGAQSIEVSAGDAI
IFDSRLWHGSNKNFAGKDRFAYVTRWSIPGKGYDPEIPEVAEKFGMFNCGHMTDEILQKS
LLLYEKQPPEYELPTKEKLVKWDILQKKGDVLNKVGALNEGSSLNIDSSLAIQHLKSL
RVLHLAHDAGNISGEVYKNLWFSLLSPLGKKIQLLKI

>gene_271|GeneMark.hmm|260_aa|-|47620|48402 >NVVL0100004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MQNMQYEKTSQNLLEQMNIKISPCRSFHTLAGSPIYQARFRAVEKFKPGFAPVYDK
DSDRNNKDSGYHIDFTGKALYKRRFTKVFYCDRATVADQNEYFHIDITGSKAHDHSYQ
WAGNYQEDVCVVRQNNQFFHVDMEGREIYSEKYDYAGDFKDDIAVIYRNGQASHINNEGR
LIHDRWYKKGVLGKGYANAEDNNGWFHINREGKAIYEQRYKMVEPFYNGLAKVETFDGH
LGQIDVMGRMLVNIYTHKID

>gene_272|GeneMark.hmm|755_aa|-|48363|50630 >NVVL0100004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MLSQKLADRHEVQVFARYEDSFLADFHYTELDSLDPRIILLNVLNIPLTKYRYRFVNEQV
DIRFQKILEEFKPDIVHFHGLNHLSSLPSIAAKLNIPTIYTLHDFWLMCARGRFIQRNS
KQILQPCDCQEDQKCAEQCYSGYFTGDESSAETDLAYWQQWIATRMQHTKGIIEHIDHFI
SPSKFLMNKFITDFDIPQDKLSYLDYGFDLERLSARKRQKDKQFVFGYIGTHTPEKGVLDL
LLRAFENITSDAHLRIWGAEREETKALKQISNQLPDHIRDKIEWMGSYKNENIVSDVFNH
LDSIIVPSIWGENSPLVIHEAQQLRIPVITSDHGGMAEYVRDGVNGLLFKHRDES DLTA
MQKLSGDKNLYQKLTQTGYLYSKDGGQIPEIGDHVAAVEKLYISA AKKKGKQISTKPGPWR
ITFDTNPDYCNFACVMCECFSPYSNVKEDKKARGIKPKIMPIATIRKIIIEASNTPLREI
IPSTMGEPLMYKHFDEIINMCHEFGLKMNLTTNGSFVVKGARKWAELLVPILSDIKISWN
GATKETHEKIMKGSKWEDVTRNLQTFLEVRDEYLEKTGKTCSVTLQLTFLESNLMELYDL
VKMAINLGVDRIKGHHLWAHFEEIKDLSMRKNSDSIRRNWKEVNRIYELRDQMLLPSGAK
IKLENFTILENDGVKDLAPGGACPLGKEAVVNPEGKFSPPCAPDELRESLGVFGNVNDT
KIGDIWQGDKYRDLQKNYLNLDLCKTCNMRKPLVS

>gene_273|GeneMark.hmm|337_aa|-|50605|51618 >NVVL0100004.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MKKILITGGAGLIGSALNKELVGQGYGVVSCDIRFNDNPLSFFSQEIKPLLAQCSGIIHL
AAISRVIHGEEHPELCQEVNVDGTIKLLEFYKDLPHKPWFYIGSSREYVYQQETLPVSEN
APLKPVN NYARGKVLIEQQVSGLREFGFNTAILRFSNVYGGMLDHYDRVIPAFCLKALRG
EQIRIEGKECVDFDTHLEDVGGIALAVGV LQKGAPLES AIHFTGGRGCNLEELANMILK
ITESNSQINYYPARNFVGRFYGDYSMATKLLGWRPQYSLEEGHLKFIYDIQHHSVNCYPY
NVGMRVYENIESYSWLPTILQCGIRNIHSDALAETGR

>gene_274|GeneMark.hmm|904_aa|-|52269|54983 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSTLSFSTEYVHGSYEETKVPSPGDACGSNQLPQLEWPLPLTSGLSLITDQEWSELNLLA
ANQRWEQLKAALEEKGRAEKMFPKWIKVLTILLNRTYLQKDLDEGLNALVAQRDYQQIDI
ELIKQLASMGSDVNYTFRGQIPDSALQIAVRSQVSLIKTLLESGEERAVVKNKYNENN
KNEHILYSAIQLGDLELVIYLLQYNILDSCQIACRKYDKDTLVDCAILSDLEKALQIIP
RLFAAGYSFGSVENLMQHGELDYLDKILLDLLKWGLSVDDGVKYGMTLFLEDRDEGYDP
KPFMYAIKMLQFFLGKGGKIPEELSASLDERLQKLVKIAKIADDLYSGNPLSAPLSLED
IELKLLKEATEALFQVLALPEDTDQQTALDLARALRGQDLGSFTRNIDLTNTGRVLDLD
LAIALRGQDLGSFTRNIDQTQALDLTNTGRALDLRQMEKAVKTIKTIKTLALARVLKY
TDELEYTDELEYTAKALKYADRALKDADRALKDAYRVLALKDAYRVLALKDAHRALED
AYRALEDVYQALEYTDRAKALKYAAKDLQYAVLALVLKDADQALVIKCVDAQALDAALALK
ESDSKLIVPRLLRLWSRDGQSEYPTFDEFINWCEGQSLQLIFGGLPLTLRNAQSDLMFLE
DWIIQKLVGTQNSMPLIVSLQNKNSAEPVLDRIINKYIEIFPTLEPLIEQCIQTGV
TYSSLSMEQPNDSVSGSKRLREEVPHQRVRRKLNPDGSLVNQSPVEEMLEILQRGIGSY
LVS NKPEVLATLSMHQEARTLLDKVVNNCLPCNLKTAILDWCDLQKAIYSPSADTLEWA
GSKIQESQYENAGLKDENARLQGENARLQERLKALLEPQLDDVHMHEAPDLIGSSDTPEA
PDFL

>gene_275|GeneMark.hmm|102_aa|-|55175|55483 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MSLKKGRAYKPIVRIEFTRIISDKSTAETRYITSLPAKALYISKAIRSHGGGENSLHWV
LDVIFNEDQSRIRKGHAPANISAVRHIALNILKSAQKLCWRH

>gene_276|GeneMark.hmm|117_aa|-|55906|56259 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MTRAKAGKISKNRHKKIIMAKGYRGRANKCFKIAIEKVEKALQYAYRDRRNRKRDFRGL
WIQRINA AVRQHDMIYSTFMGGMKKAGIEVDKMLAEMAVNDPASFTHIVEQVKKAK

>gene_277|GeneMark.hmm|66_aa|-|56284|56484 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MPKMKTHSGAKKRFKLTASGKVKSAQAGQHFMRRRTKSQLRNQRGTAVLCEPDAKRLKK
IFLPNG

>gene_278|GeneMark.hmm|391_aa|+|56904|58079 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence
MEELFALKNVYELYTGHRVLVTLFIMLTGFYPMMLMIMKKIISPRVDKIIKTRSKNSTRII
EKHRITARLIQVFIAYVLMFWGDILDDLTLMSLIRIKDS AISIYLVTTISSVLLTAIN
IGVDLHGSRKTFNHTAIELHTHILKIFITACASLSIISVILGISISSLFTSLGAAAALLT
FVFKDVLGLLASVQLTFQNIIRIGDWWVSLPSYGADGDIEKITITVVVIRNFDKTCCTVP
TSAFLNTGVKNWRMTMFESGGRIKRAISLDMDTIKICSQEHLDKFRKMPCM TDFAKNNKH
MFDKNETTNIITMFRYVVEEYLKSHQDIHQEGFTFLVRQLNPTPTGIPLELYVFTKDTAW
ANYEAIQASIFDHLLGGLAKFELRAFQTVIR

>gene_279|GeneMark.hmm|643_aa|-|58182|60113 >NVVL01000004.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1352, whole genome shotgun sequence

MKNKLLYLLVALFLACPVSYARMQTLQDAALQYDFYNRDTKIHKDGTHESIVEIQITLLR
EQAREFVAKYTMGYNSDSSSVQILEAKTIFQGKEYKVTDMIEDKPVANNRAGFDEIKQI
AISFPKPEVGATIYLYKEITNKVLIDKEFFAKYAFGTGGYWKKSNVTINSEIPLLVELN
DPYKLLLLTTENPADKKGYFHKINLKLSPINMPINEVAGSALNHKRITYVSLASLDKW
SNLGDKLAVKYNEVLEQSLPDVFLDIAKAAEKEGVAKKEGALEKEEDIVARINKITMLS
KKVQYCGDWRSINGRLVPQDLAKVAEKQLGDCKDFSTITVKILRHLGYEAHVALVLRGAG
MQAYDEKFPMSNFNHAILKVISKGGKTYWIDPTNVVSMADGIFPDIAGKSSLVLARGGA
SYEEIPDVAEAHAKTIIVNAVSLDNVGSNNIQLLEDAMS LTGARLYASAQHIEDWVFN
FFSVFIPKEARISSSIPNLNSRVVTPITISLGYNPMSMFHKTNIGLAYRLEGGSLGADM
LDMDIKGSVNDLYLGNPRTMQRTTIFKNNKIRNLKELNFNFS SAHLTLARECVIKGEDSI
ITDKMITHKAWMENSYIKSAEFKQLQDIFREN RNISVVMVKDE

>gene_280|GeneMark.hmm|462_aa|-|124|1512 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MAEYRVETDSIGEIKVESNYWGAQTQRSIGNFKIADQKMPKEMIRALAILKRSAAKVHS
EIGALDIHIAAAIIESADRVLAGEFDDNFPLVVWQTGSGTQSNMNMNEVLAGIANEKLGTG
EKGGKSPVHPNDHVNMGQSSNDVFPTAMHIATVLQSNELLIPALEKMHKSLDNKAKDWDG
IVKIGRTHLQDATPVSLGQEFSGYAYQIKYSLERVGHSLARVHYLAQGGTAVGTGINCKA
GFAEKFAEEVSKFTGYKFTAPNKFEALACNDALVEFSGLNSIAVSMMKIANDIRLLGS
GPRCGLGELNLPANEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVSIGGSNGHFELNV
FKPLIQQNVTHSIRLLSDAMNSLVSNCIDGIEPNIERINDLRDKSLMLVTALNPHIGYDN
AAKIAKKAFIEGTSLEAAIASGVISSEDFDKYVVPQDMIGK

>gene_281|GeneMark.hmm|207_aa|-|1522|2145 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTRTIELSQALSACLHDLAAGSIAIDNCLSMICGQDTSIAKQAKVIAESEINLVSHLR
LLRAAYGASAEVSVISIMKLLTDFEDKKTENLHFEEKLIFLDTQIAKAVMCLIVI
AAESGAMRGVLDVHVNINASEFKIISRKILKLEDNAQILEGDLDAPIDVGNCREHYI
GRICAQNGYIVSVNQTDIEIYNLKKK

>gene_282|GeneMark.hmm|468_aa|-|2162|3568 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
LFRFERIVIMENFDVVVIGGGPGGYVAAIRAAQLGQKTALIEKEHLGGICLNWGCIPTKA
LLKSAELYQMKHSEYGISAGNVGFDLQKIVKRSRDISGKLVGGIAGLLKKNKVTVIEG
AAKIESPTQISVDGKTTVAKNIIIATGARARVLEGFEPNGGNIWSYREALVPKTPKSM
VVVGSGAIGVEFASFYNAIGVDVTVLEAADRILPVEDSEISSMARKAFESKGIKFKTG VV
LKEQKSGKNSVEIIFEHGGKKEVIKSEILLMAVGISGNVENIGLEKIKVKLDRGHIVTNG
LMQTSQKGVYAIGDVAGAPWLAHKASHEGVIAAEMIAGKKPHQITKTNIPGCTYSSPQIA
SVGLTEEAADGREIKIGRFPFYGNAKAMILGDGDGMIKTIFDAKTGEMLGSHMIGSDV
TELIQGYVVAKEMEGTEEDLMNTIFPHPTLSEMMYESVLQAYNKQIHI

>gene_283|GeneMark.hmm|416_aa|-|3561|4811 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MPIKILMPALSPTMEHGNLAKWTKKEGDSVKAGEVIAEIE TDKATMEVEAVDEGV LAKIM
VPEGAQEVVNSLIGVLLEEDDKAALAAFIEKESAAGTVASEPKKEEK PAPAASIPAAS
PSSAAPKTEMVRPAGARIFASPLAKRIAKMEGIALANVTGSGPHGRIIKADLLNIGTKRG

TISRHKEEYRLVPNNNIRKIIAKRLVESKQTPHPFYLSNECMMDSVLEIRAQLNASFGDD
KSKKLSVNDVFILATAKALMDIPEANASWSDDAIMMYNNVDISIAVAIDGGLITPVIRNA
DQKEITTISSEMKDLAKRARANSLKPEEFQGGGFSISNLGMYGVKSFNAIINPPQGCILA
VGMSSKRAVVINDKIETRMIMDVNLSCDHRVVDGAVGALFLAAFKKYIESPILMFV

>gene_284|GeneMark.hmm|333_aa|-|4861|5862 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
VKDKRFMKEITVREALRDAMTEEMRRDEKVFVMGEEVAEYQGAYKITQGMLEEFGAKRVI
DTPITEHGFTGLAVGAAGGLRPIVEFMTFNFAMQAFDQIINSAAKTNYMSGGQIGCPIV
FRGANGAAARVGAQHSQNFAATYAHVPGLKVIAPYSAEDAKGLLISAIRDDNPVIFLENE
IMYGRSFETPEIVEPIEIGKAKILREGEDVTILAFSIQVGMALAAADILAEAGISAEVID
LRTIKPLDEEAIIESVVKTNRLVVVEEGWFFGGIGATISAIVMREAFDHLDPVEVVAGK
DVPLPYAENLEKMSLPTVEDIVEAAKQACYREM

>gene_285|GeneMark.hmm|325_aa|-|5859|6836 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MFEQKKYKLPPEEYVDSFEKMLLIRRFEEKCGQFYGMGLIGGFCHLYIGQEAVIAGITLA
KDEKDISTITSYRDHGHIIIMSGADPKYVMAELMGRSSGCSRKGKGGSMHLFNKDGKFGYGGNG
IVGAQVPIGTGLGFAEQYNGTNNLCFTFFGDGATNQGQVYAFNMAALWKLPIVYVIENN
EYSMGTSLERSTAMTDLYRKGESFNIPGFQADGMDIDAVYNATIQAQTEFVRGGNGPVILE
VKTYRYRGHSMSDPAQYRSKEEVEEYKQRDPVESAKKIILDNDYASADQVKEIEKRVKAK
IAEVAEFATSEFPSEDELYTDIFR

>gene_286|GeneMark.hmm|116_aa|+|7039|7389 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MYPAAISKARDFYETILGLEVGNIFKHPNDGFWIEYDLPEGGCLAISNLDTGRTPSPNS
GGAIAFEVEDLDIIIADLKSVDVQFKLEKFTTEMCSIAVILDPEGNAILHLQLKRK

>gene_287|GeneMark.hmm|78_aa|+|7401|7637 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MKKILIIASSLILLASCSNKAKNSLGITETLPDEYQVTRNKSLEIPPHYHLNAPVNDNKN
TGKKKLSEAENKLLKEIK

>gene_288|GeneMark.hmm|432_aa|-|7665|8963 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MAGSRARHVIKESHPDWKAFKGRAARDVLFVSRFAYKQHDAQMDELADKMPDGYEMFLMTD
HLDDTKEASFRCAAFMNWQTKEVVFATAGTRLGRDVS KMGSDFDALLAASQKPRKLN
AQVLNDMILDSLGAEASEYKFHYTGHS LGAAEMAQVDM DIKLTQRDLKAGEEQISAVT
FENPGTKKILSGMYKDAGLPAESAENRLYEFNNRPNMINSLEQAGEVYVIEPNSQKEN
PSLIQMVIEFVTKKDKETSPFVGWVISLLEKGCDSYVKNPLAGQVIGLLEQGLNLYSDH
KLDNFDEVFVQKEGRVTKNGELITVEEAYSQVPMYDEQIASRVVQLKKEEGDTGKQEY
AMNHINPETGEVSRILCGREELEVAVALIQSEIGNAMQNIARKAPTALKSKEESRFELP
SAAEIVKDGLER

>gene_289|GeneMark.hmm|137_aa|-|9148|9561 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MKKMFAGLLFVVTVCVFSMSSVLAGDVVDSTGKERKAIKSKAKESVQAGSKARSVVFPC

IKNKLLVKTkHPVINHKKEEEDDEFSEDKKLELNSEETKAKTKANTQVKGKTKPKITT
KTTTKIKTAKAEPEATK

>gene_290|GeneMark.hmm|1074_aa|-|9743|12967 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MASDSDSNAEGTSLIEEDLNSLNFQLEGVASLPSELPEVKNVRRREVPTGVGGEYDAGSS
FFPESYAPQSVPLDNLLVALETIGNIKNGNLEPSVVLTTFAELARLGKRSQAYVDELSGD
QADFDLSIREFQTQIVFLERRLDGALEKKGALETVITRAQFKLGDLDLQSFTEEQEKNLAL
GVRIQDLGGRLRKYESTYDDSDAPGLSRNSSVADYDVSLRDDLRSEVQVISLKNSNADLL
IRAEFAEEECARQQDKIQAQSQEIKDQNKIQDQNKIQDQNKIEIQDQSQKIEREYISNG
ILQADLKERERITNSVSVLKEKASIDSGGNTRRDSQPMLDMLGHLVNRFEVDGKNGAP
SSDNGVDRLAVTAEAGQRRSSLADILVAEDLQQDRQNSTIADLRDQLKVAVAENQGLSQ
LLSQLSEATSEGLAKLSSGSLDVVASIAGKLSSVYALETRIDTLGRENNDLRGKVFTL
EDAADLVADHRKQLEGLSAQHTAELEAARSRVSELEQTAETYGADMAALREQLAAAQRQ
ATEATEAEAEAAQKRVGELEQAAGQLENLRGQLAEAKEELEKKETALGELCNQLATARRE
AWEATQRATGAEAAQCVAELAALQAANDKTTAERRLVFLRAEVGEYKQVIAGQREVMQES
RAKLEEAUYEAGCYRIAKDETFALLKDSWKEKDELERQLEEFQWIADEARQAALDAQLEE
AARQALAVAVAAAAALAAAQQRADTEAAHRVEAERLLNEALMTPEIREALRRLIEARARRE
AEAQQRREAEEEQRRIAAEAAEEQPEAPEQQVAEQVAEPDVAVEALSEPRVLTALKVALP
DGVELKEGLEVPGNAQKFVFNVEFEYVEQFAHIDALPSVDQGVSLQAQQQQQPIKGGVLF
EEGIPPAQPPAEFVSDDEVVAKSGKIAAERLEAMKQAASATASDATSEHGGDVALNGSG
AMLLAQQEVATEGSFKEAVDEQLLGTAAKQSFQAAQVVENNEDGLVGIMDTLMRAVSMMP
SPSFGSQPIHSQEANKRRNQDEKRSASPGDASSAKKKPAKDKKPESESPAPSA

>gene_291|GeneMark.hmm|606_aa|-|13661|15481 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MHKILQFTQINNFSVMTKQLTSEPALSLGSTLRKCAFLFRKQKQLQSLFLVFLVLSGII
PSVDSLFLQNITDAIEGFSKDLQQTNLVEMLFKWWIYALWWEGLNILWRVYDYAYLKI
MPKIKAQVIDEFYDHIQHHSHEFFQNNLAGDISNRITEASRSLEMVFAFANEKIIRKLSV
ILFAMLTLYSVHIIASIFLAWVVLFVGSLLFARTINNYSTIYGKDKALVAGKIVDSIS
NISAIRMFASHRFERRYITHTLSLVKSDQSMQWFMFKLRYFLGTSCTLMICAMIFYIIT
LRNLDISIGQCVLVITLCLAVIADTWDLTQEFGLDFEQVGSFNQSMSLLEKCAITDHPD
AKPLIVKEPRIEFQNVTFKYNNNSNSFNKSLIITPCERIGLVGFSGSGKSTFTSLISRL
YEIESGKIMIDGQDISKVSLETLRQNSIIPQEPILFHRISIRENIAYGKLGASDEEIRQA
AKSAHIDEFITNLPKGYDTICGERGNNFSGGQRQRIVARALLKEAPILILDEATNSLDT
HTEKLIQSSLQQLMEGKTVLVIAHRLSTLLHMDRILVFDKGHVVEDGTHAKLRKNADLYK
TLWDNY

>gene_292|GeneMark.hmm|222_aa|-|15581|16249 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
LNCALGFPGATVSICISQKVFMSRKRVDNALEDSSRPHKKQIVQGQQDHPDQSSPSAI
QDASNSSDSLTYLIDQLFAEPILGSTRYSKEKKSYSMEIVQKYFPDKTLNPVALEPPLEV
LRVLSLEQIEPPKAPLVPRAIPELEPEPEPAPAAPSVPVIKCSFPLDAREFFVFDEGVHG
EPSEAPSSDFIFWQFEYYCAEPSVDRLLVGVLDHTDFPWF

>gene_293|GeneMark.hmm|399_aa|-|16407|17606 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence

LQPNKKLVQVSNQAFLATPDFPTFLDFSVLSGSPGLPGCMSFPGYAGFPGFDPDCVPPGL
TAPPASHSDGNSVSQAAEHSAKPDLGPPALPSISKHNSSELNHAISSYLKSAVEISNEL
ETALRQRLNGTDRDSNACKKPLIYLLSEGANKWDQNKGLVIKLLAEGDKIDELNNRGIIS
SGVINSEITALMHTCGAGSSRINLEAFKFLSQDADITACNYRGWNVVDYIIRGRFVILA
FEALLDHCREHKKFPVSLDLIESCLNNSFIREKNKSKCIKVLKLYLTKNKADLSQNDFER
ALEMVKSPSFEHAPEVDEVAELSEASGAPPDSFCLTPVSPEDSKSSFCLTPVSPEAQL
SLFTPHVPPCFNQVIAPPALISAGMLGLSDPLSIFEFLO

>gene_294|GeneMark.hmm|599_aa|-|17837|19636 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTPIFYIKGGILNFGDKNIFSELELYVSKGDRICLVGKNGCGKSSLMKIIDGEYELDSGE
LFQDPVVNVGYLKQDVKERPECTIYDFVMSGFKDPENNKYHADIILKQMEIDGTLMFNNC
SGGQVRRVCLAKTLDKPDILLDEPTNHLDIKAEWLETYKGYEGAVICISHDRMFQE
NITNKVWWIDRGVLRKSNKGFKHYDQWHQEIIESEEAVLHKMNRKLNKAEKSWLQGGVTGR
RKRNVKRLANLQSLRENLQEHQSRLTNAKARLKIELAEEMKKTKEIIEANNISYNFPGKR
LFNNTFKVKKGEKIGVIGSNGSGKSTLIRILTKELEPQEGKVKHGTNIDITYLDQHRTE
LNPKHSKQTLCPGGDQIFLQNKTMHVAGYKQFMFDPKTLDSKVSTLSGGESNRLLLA
KILMNPGNFLILDEPTNDLDMDSLEMLLEILAEYKGTLIIVSHDRDFLERLVTRTLVFAQ
NEVIDLYGGYEDYLYHRKEEKISKPKKVSTPATQEKSSKPQRLSYKYARLLEVLPEEIE
QIEQRIVTIENKLAEPGFYNADNRQFSLTKELEKIKLELDVKMEQWLEVEAMQGDISE

>gene_295|GeneMark.hmm|434_aa|+|19790|21094 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MSNMELAEFAAEELDKNPFIEDDNITVESSEPKKEQNDKEKICQTELRTDLGPTTVRGGK
DYSSQDYLANIATEKSLKEHITEQINLSFNDSKDKIIAYYLLDSMLSTGYLGITLNEAAI
MLRCDEKIIVRVLKLQNFDPVGFARNLRECLTIQLQEQEDTDYALLTMVQNIDLIATG
NFKKLAKLCGIDIANIGEMIKKIKSLNPKPANGFFFEQTSYKIPDVILTFTNDEHVKLET
NTESMPRLRVNLEYLLKIKNTVEKKEERHFATKTEVESANAIKVSIRQRSQTILKSKAIT
EQQMDFFTRGVMYLPMTLNEIAAITGFNESTISRSTANKYISTPTGIFELKYFFSSSLG
TTRSASDNVSSTKVKEIKQIIASEEDGEILSDDEISEQLSKFNISARRTVAKYREAIG
LPSSSIRKRNKQMA

>gene_296|GeneMark.hmm|1387_aa|-|21201|25364 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
VGDGDGGSVIGQSEAPDLNDVGEPEKGLYWEHHALPSQDKEGDGIPQSYGSLCLKVKEI
VGNLDDEDSIKNLSNSCISIDLGLVDVASLAEGVNGLISLLYEYKMTHEFPALLQLCEE
PVLPDFGSYSLASTPAGSTAPSRQGSVRISSLSAQSSVRDLAEMFSGTACSTMNSQTGGA
YDPFQPNDSFVADNATFSTRFYKDIRSSEHILTEDDIDVLTKKLESEDLDYGYVFDLLTE
KLELPYNQQDFSIVQSYSTLIITCITELAKSNGLQTGDFEQIKAFLLKGVVSLESIVESL
LSLEPCGNSKLYNYMETLLFDNKQYITEKKAHTMFCAMQEYNNQCIAHKQPVIHIPESLL
NKLSDENFNHYLSTGLSRSSISIDEVRKQNFQDQGRFYNIAYALNTANVSSGSLNVSDLA
AKWHLSSGEIFAIMELCSKVEDSEYDDVLELPKLMKCLLRAHKLKDWCDLAQAAVALPLG
ENQLDQRILSLLIHSSPTEEILREVATKLPEICDDRMRRAELEKQGISLTD FMWLLNNGR
LDCNGDLVFASSYYEGLSKDGLSKLLKLSIGPVDFSWSERLDGEIMESALFNLDDAIDL
PKLKPFAFEARKHARDLFSKIRDIEGDKDSQSSLEISKWLQGGNVKALSCKLYDVAFLKRI
PLSEVCDLLPTIGIDDRIQLVLKINQITISPEDMILLGAYDCNVTAHIEDLEGKNLLEYM
VARMFHGEDFKVNLALATVDLAI PNAPLNLNQDQLGYVTGMILNSGQDAVSAADTLMT

LAKNSGIDGLYAVLWCGGKRDYVMSKIDEANHQTILDELISRVSKERIASVLNEFSPHLR
EVQTAYEALIRDKAGDYTRAAGVLYEVYTRCVDTENLEEELEEKILES LGTFAKPVVAPIP
GYKVLQKLRDQINANRAKRNQDQTGDEESGFDSKQLSTLEGLDSDDAKMWEVPQTTFGTS
DEPPESWSGGFSLLDESLDELATDDESESGYSSYEPSDESDSGADADVESDSDRDYPDDD
FEDDQLGQFFPPGKAPTAPPPLLAHGAQGVGVANPPPLPEFPAPKKVEIPPAPPPHVPP
HVPPQVQPPEVPPQVPPQVPPPHAPAPQVLPLPQRPELKFPELHHLAPVVEFAHEYKVE
GGESGSGGPRGPESETVEPKIVTLLKQQVKQGAGSLILEPDTGSLVASLFEVSAAHEAGF
GFDSAARYKAELSFSLASPLKNLEQVTLEKTVRRAEEIVPEEEKQKAAALPANFAVEAD
KSVDMKTPGKERLKDIEDPLLLKEEVLPAALLGVSAMKPGEEQPEDSEEDLTGKILLER
KQSVSDLEYAIALIQSLLAGRSPPPSTPKTLGERRKFGLFNWLLSMLMMFINIGLIAMSF
KKAAGR

>gene_297|GeneMark.hmm|660_aa|-|25939|27921 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MNNNTKNILVWIAIFVVMITTISALQDDNTRIGTERLAFSDFLNRVDERQVNSVVIQGRW
VRGSLSDGTAFTTYAPDYPGLIDKLSMNGVYIDVSPDPTKMNSLFSIFVSWFPMLLLIGV
WVFFMKQMGGGKGLGFGRSKAKLISDKGNKITFKNVAGIDEAKEELAEIVDFLRNPGKF
QSLGARIPKGCLLVGPPGTGKTLARAIAGEAKVPPFSISGSDVEMFVGVGASRVRDMF
EQGKKNAPCIIFIDEIDAVGRHRGVGLGGGNDEREQTLNQMVLVEMDGFESNEGVIIAAT
NRPDVLDPALLRPGRFDRQITVSNPNINGREEILKVHAKKIKCAKDVEFRVARGTPGFS
GAQLANLINEAALSAARLGKKIVDMTDFDEAKDKILMGPERKSMAMTEEEKNGTAYHEGG
HALVSLYCPSLDPIHKATIIPRGRALGMVMSLPEKDQISVTCEKIKAQIAMALGGRVAEE
VIFGSENVTTGASSDIKAATSYATHMVTEVGLSAKVGPIFHGRSHEDNYIAGAGDKTRSE
KTSELIDSEISRIIEGYETATRILTDHVDQLHILAKALMEYETLSGKQIKHLLLNPID
TEETPEFPAGLKKKPKSKAKVAARSASSAGDVMGVVEKALERKGRSLKKPAPVPPKGAKE

>gene_298|GeneMark.hmm|432_aa|-|27934|29232 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MPSTRFDDKITNSLGTIPPGKIAIAVSGGSDSVALMHLASIWARGAGVQLVILSDHNLNR
AGSKDEIRYIAKLARDLGHEFYPLSWDCGGSKVALQERARQGRYDLMTSKCHDLGIDILL
TAHHMDDMFETYLMRKS KSSILGLSSTDEFFHNNIRILRPLSGCSKAELVHYLEQNNIG
WLEDESNRSDAYERNRIRKQLALYTRPEKLELAQEIAGVNNQASVLNERLIIAMAELLSI
NEYGFAMIDLAGLKKERCIDIQIPILNYILTVISGKTATPRFRSIRKLLAKLAHNEKIDSS
LHGCILKETSGLLIYREYS AIDKIKMPVDFAKNNYWDGRFEIISPQSCDGYIIDCLKFS
DYIELKDKINLKNLAKISDNNHKSILFTLSAIRREKIVAIPNISYYDSSGLEISFEVIF
RPSFISRFTHFL

>gene_299|GeneMark.hmm|524_aa|-|29376|30950 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTKETQNTYDETPYHSYPYAQSSPERLATLGALFGMDAPKIETARVLELGCAEGGNLIPH
AMHNPKGEYVGVDSLKVQIDAGIKNVKALGLKNVDLKHCSIMDIDKSFGKFDYIVCHGVL
SWVPDVVREKIFKVVNENLTENGIAYISYNTLPGWNMVRTIRDMMMLYHSKNFQDPNEKVT
QSRALLEFVKDSLKNADTPYAKTLTKEAELLAQGDHYLRHDHLEDENKQYFFNEFMAEA
GKNGMQYLSDCSLSSMYLGNMGKEIAEKLKDLNDIVRTEQYMDFITNRRFRSTLLCHKGV
KLNRA LNNNDAKKFALSFNITPEKSLDKLASKDPLKFYFKGNKEQYITTSSPWLKAIL
YTFIENGGYPLKFDTIIEKANKKFKTDSKAQIEADLLKNVMNLVIKGYIDISLIERTSDK
VKVDKPKISDLAFYQANNTNNTWVTNLYHAPVGINLFDKFKALKYMDGKNTKQQILELLIK

DVKDGGKINMSKDKKKIEDPAQIKKELIAHLGHTVNRLLTTQGLFV

>gene_300|GeneMark.hmm|249_aa|-|30982|31731 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIKSIKQSGIVALLSAVTLSSAAHANDEISADDRYFYIGTEYGISDPVVKFQDKDTKT
DVEMKRSTMYGGRIGYSFYPGMMIEISATHQPKYKLGVLHPDGLPKAVPGTTDMSTN
VFTANLIYELPKKFAQLQPYVIFGAGVSRISIKSASSSVPGPQGNMEIFRIKNQTANYFT
YQLGVBVTRDLGANLSLDLGRVQVNNLKLKYDALDKITHVVKAQKPIKKTIAVGEFTI
GLTFKIPVK

>gene_301|GeneMark.hmm|428_aa|+|32241|33527 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIFIYNLLSLLFPYLLVLLVRLCKKKENLKSILQRHSLMPSRDPGQLVWIHAASVGE
SMVALTLIKAISTEHPKMNFLVTTGTLSAGLLANWLPSNAQHQAQHQDAQHQFVPIDN
ILIVRFLKHWRPKLGFIESEFWPCLINESAKNFDLILANARLSDRSFARWQKRRGIFN
FITSKFKTILVQSKTDLKYQNLGCGRAINLGNLKFANKELEVDTEKLASLKSIFGDKKI
FLASSTHKEDEEVTLKIISLQKNIDYYPHILRHPERVGELAKACAQLGLKFSIRSKS
PAPSLGDDLYVDSFGELGLFYSLAYISFIGGSFKHGGHNLVEPAYFDNVILLGPDMSNF
QNIADDMTSHKAAIQVRNAEELAEQIEFFLDEKNSKERSLYSANAQNFVDSRKETLNNYL
TAIDKFLK

>gene_302|GeneMark.hmm|333_aa|+|33658|34659 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIKLLYPKFWSKRGLISFALIPFSWIYQLLGLVLRKKFASPIRLSQMVICVGNMMSVGGTGK
TQITLWLAKVFRKKNIKFVIVTKGYGSSLRGAKLVTPDCAADVDESILLQEIAPVIAA
KTVHAALPIIRELNPDVVFDDGMQNPFIKLNILVIDSARAAGNWRIFPAGPLRENVN
SAINRSDIIMIGSKPCNDFELVQAVTSSQKTIFNAGMNLTLHDASKQYYAFTAIGDPE
RFYRLLAENNLISLGRSFPDHHNYTPEEIEELKNIKENDCSLITTKKDYVKISDNNGN
GDSGDIICADVALDFENEANLLDKINEKLHKKK

>gene_303|GeneMark.hmm|292_aa|+|34634|35512 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MKSYYKKAHIVEYVLFLLITSALRLLSIDNSANLCSFIARKIGPSLKATSVARKNLQRI
LGNEVDTKTIDDLWDNYGRYIGEFPFINKMTDQEIEQRVKCIGIEKLFQDNKQPFLL
LLAHQANWEFIIRRAKDLYPQFGVVYRKANNPYVNKILKERNNDIIIMIEKGANGTRSL
IKAISKMSIAMLVDQKMNEGINVPFFGHAMTAPAIARLSLQDYPIVPCQMIRIDGTS
SFELVIHSPLEYDATGDTQKDCYDIMLMINQTIIEGWIRQKPAQWFWFHNRWK

>gene_304|GeneMark.hmm|381_aa|+|35576|36721 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MINKDVLPILDKLSIFQSVTPKGEDALQYIAELLSKLGFECHLKNFGSGAKETSPLYAVL
GDCAPNICFAGHVDVPPMSLDLWNSDPFKMTVKDDIYGRGTVDMMKALACGLAATLEF
FKQHKPTGSISFLTSDEEGDATYGTKMMLEHIKNYTPKIDLCLLGEPTTKTIGDTIKI
GRRGSVNFALTVSGKQGHVAYPEKAINPIPIMTNILKDLSEKEFDSGSEFFQKSNLEITS
VDTGNQVTNVIVQSLSAKFNIRFNEKHTAASLNSEIEQIVKKHCDNYDLQYSSSSAPFIQ
KYSERMKKFTQIVQDNCGVIPDVETGGGTSARFIHPFAEVVEFGLNCDPAHKINEHTKI
SDLQILYNVYYDSLVEFLTQR

>gene_305|GeneMark.hmm|439_aa|+|36946|38265 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MNIAELKKDKTNYHAKVTIPNKEIEELDKELSKAAKTAKMDGFRVKGKVPVSVLRKKYAP
SIRSDVMREKINAAIDETIKKGSLSIAGNPSIEDLLNEEGKDLEFTLKFELLPEISLPDF
KKFSIEKPKLEISEKDIDKQIEELAGYSKTYDTEVKAKAKKGDQVTLDAVGYYVDGKAFDG
GKLEGHKLVLGSNSFIPGFEDQLIGSKTGDDVSVKVDKFPKEYHSDLAGKPSFKVVKVIA
VHKESKVKIDDEFKQCDTLDKLEQISKNMQLSFAEPIHTMMKMKLFDQLESGLKFD
APKSLLEKEKSMIKSQIESMGSEDPETKDMSEKEKEAYFDRLASRRVRIGLMIAEYVKKK
QLQIAEEDIRQAIMAQARNYPGQEQVIEFYQKDRNAFESLKGPILEEKGVKAIFEKEVT
LKEKTSKEKLEKLLQEEV

>gene_306|GeneMark.hmm|74_aa|+|38566|38790 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MQNFIKLLAVSLLLTCYGTSDKNPSPKSSGKASSSASKHISNHASRVASTAASR
AAAVTRAANKISRP

>gene_307|GeneMark.hmm|182_aa|+|39070|39618 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
LLIYKMETSLARKFSVVLAVFIAFVSNASAATRSRPGHLPLRSADAREYRTHKTNDLFKS
YLELSSFRHKIIAQNLANVNTPGYKADEVSMVQYSDLAGSGQVVRKIGMIRTSNRHIAS
KKGAAGRFSSHKLHDPYEIKKNGNNVLSLQIQIGLSENKNDYAAVVKGYATTNSLFSSAI
GK

>gene_308|GeneMark.hmm|164_aa|+|39624|40118 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MKKLFVFIILAWVTLACTTLGCTSTALADDLKKAASIASYGTRFQAERIKIAAENIANES
STAALPGDPPYRRKVLFAENRYSKRLGTHVIRTKKIGFDKSAFITKYDPHHPAADSEGMV
KYPNINRIERADASEAQRGYEANLSVIEMTNSLRQKTIEAMGR

>gene_309|GeneMark.hmm|144_aa|+|40121|40555 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MAVDSVLSAQNSYMQVQNRPKLAPINTQMSQAVDFHRMVDQQFNSFSKMSPAQILAHIQ
GVRGSGASSTDFQAREQSVASTITKTIRETVGKQEEVTRKSLIGEASMVELLTATTEAKN
LMDATVKVRDEFKAFDKVINMSM

>gene_310|GeneMark.hmm|60_aa|-|40623|40805 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MFGIEVGVDMAIVVVFLLINLGVGLYGGQGVKNIKDYALGGRNFSTATLTATVIASWTVF

>gene_311|GeneMark.hmm|113_aa|-|40916|41257 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MPDQPFSSRLPNRHCDRIIFIAYNKLLPHMKKESDDSPILLILLSARNLFLIENMMMPKA
ILMTLIDLKEIELHLYNHGFNIKNGKSELTLKPYTANGIVRIKQSASSLGLSI

>gene_312|GeneMark.hmm|287_aa|-|41447|42310 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence

MLSNNREKNNREKWQVELEELRQEWNLWEGDPMETPTSIIIFARYKNQPAALKISNSAS
EHTSAVLKHYNGYGAARILKNRGRITLMKRCVPGVSLKDLTLNNEDEKATHILCDVIEKL
HSNVEFEGNYRFTHEFTQFFDHYLNSGDKQIPTKLIKASAFADLKDSKEKQILLHGDL
HHENIYDQKQGWLAIDPKGFVGEACYEVAFLRNPIDSEICLSHNIKRRIIDICTRLG
YDKLRVLSLAFAQSILAAVQFIEDGYKYENALQVAKNLEAQELHLRV

>gene_313|GeneMark.hmm|212_aa|-|42324|42962 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MRTIISIFLIFSLWAPASYAGNADTKKLGEYIENLINEGHKMFNNKKMSQTDRYHKTKL
IEGHLYLDWMAKYTLGRHRRTIDKKKISEFSATYAKFIVKVYADLSVHYNGEKARLRKIK
QIDDNLFIVNTVVIKPADQDTIKIDYLVHEINETGDDPYRVGDIITEGILNSQQAEFN
SVISTRGIDALIVDLQERINRAPALAPAGSDV

>gene_314|GeneMark.hmm|256_aa|-|43142|43912 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MRLSIRSIFNPILLALCCIIANNTYAAKSSDKADNYSYNYASINNKCVYDPYESFNRI
FMINGILDAFTLRPIAKIYGKLTDPDYTKSRVGSFLKNINEPLSTVNYGAQGNAGGIFKTF
WRFAINSTFGVLGMFVDVASKVGLKVEPQTFGSTLAHYGMGAGPYIVLPIFGGMGARDVMD
PLISGRMNPIKYLMSDFKYSITGTSVVHNRDEIMPFTDHVSKNSPDPYIAIRNAILSQR
EDKMVYQDGFKCPVVK

>gene_315|GeneMark.hmm|342_aa|-|43922|44950 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIRNLFSSACSAIKSFFSGLMQIPAWIRQQITCARGNFASLRRLNDLTGSNMELGIYHL
YEQNFYDAIFRFKMVDKFLKPGDAAANYWLGWVYLLRREHKSIICLSKADKADEVGLLP
FVKSIDSVSIIPDAICALHRDIIANKFTDKIPVGKVSTDKTNSKTENLPKSLVLALNEAI
TELPDKYSILELGSNIGLLSYEINKRMQESYDLTGVEASSRMINLQQEESYDKTIHSSVN
SFLSKCSDQYDVIVSLEGLAFVAKLEDIFSKIHSILKPNGYFAFSIPVLDKNIFLDSLE
FAYNKPDIEHQLKKNGFNIVSISEINLEIKNNYSIFVCTKRI

>gene_316|GeneMark.hmm|400_aa|+|45062|46264 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MSLIATRLKVKPSPTLAVTAKAKELRARGINIISLAAGEPDFDTPESIKAAAIQGIKDG
ATKYTNVSGTPELKKAIIDKFKRDNNLDYTPDEVIVGTGGKQVIYNLFMATLDEGDEVII
PAPYWVSYPDMVLLAGGTPVAVSSDMETGFRARPADIEAAITGKTKWLILNSPSNPSGAT
YTASELEELAAIMRKNPKLHVMCDDMYEHIFDEFTFNTLATIAPDLKERIFIVNGVSKA
YSMTGWRIGYGAGDKDIVKAMSIIQSQSTSNPSSISQIAATEALNGVQDFIEVNARNFQE
KRDVLVSKINAIDGLDCYKSEGAFFYLPKCSDFGKKT PNGDVLSSSNDVATYLLEIANV
AIVPGIAFGLEGYFRISYATSRELLTDACDRISKAVMQLS

>gene_317|GeneMark.hmm|224_aa|+|46284|46958 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIKRSFKHFLKNSALVHELACILFLYLKLVYITTSWEFVWEDGISPEIIRKEDGILFAM
WHNRLAFGMYYKYDYENVYALVSSHTDGKLITDVIRKMKYSVIEGSTNRNPTGAVRGIK
AITNGGQVVITPDGPRGPVYKINSNITKLGHKYSKAVIPVSCMASKYFRLKSWDGMIMIPK
PFGRVVVTIARPLPLSGDDEKDSKSLLEEALTKLSAQASCELQGI

>gene_318|GeneMark.hmm|506_aa|+|47171|48691 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MATPSEKLAESLTVLKQLQEDGNVAIRSTNLARTHRRERLLKNGFLQEIMKGWYITNPSE
RAGDSTAWYTSFWSFCSSYLQERFGENWCLSPEQSLLLHVNRTVTPKQLLVRSDKAHNSV
IQLPYATSILEICANQPDPHIIVQDGLRIYSIQYALISCPASFYQQNPTDVRAALTMIRD
ASEILELLIEGSHHTIAGRLAGAFRNIGQERIADDIITTMRSIGYDVREQDPFEKKTPSL
ILNTAEHSPYVNRKLMWQEMREPIIEIFPKSLGLTQNIDTYLQDIEANYTTDAYHLSI
EGYKVSPELITKVHTGNWNPVKEDKQDYNALAARGYWQAYRSVRESLIAVLNGENSGDVA
GRDHRNWyremfLPSVtAGIIPIDLAGYRSAPVYIRQSMHVPPAKSIRELLPAFFDLL
RTETEASVRIVLGHFLFVYIHPYMDGNRIGRFLMNVMCASGGYPWLTVPVEKRDLYMNT
LEKASTSSDIKPFahFIGSLVEGKSG

>gene_319|GeneMark.hmm|709_aa|-|48990|51119 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MYNVFFQPVKTLIPMKEMAAKALNRLGIRNLRDLVFKPTSYNISDISSDFTKIRDGILI
QAEVTIEAIDRPLSRRSPIKIYTSNDTGSLLVFFNKIPPIYSKIRVGNKCIVSGRVQR
FDGFYQITHPDFIFKQTLsAPVQPVYPLTYGIVNKQLYGYIMDGIKILETAINARISFKK
FDDENEKIYIENLLFEIKLHLIGAPSDSSEIDRSIEESLAKLAEKELFAGQVALAKLKR
KELIVKGRSFPVSEKIKQQVLNKLGFQLTEAQEEAIREIESNQASNHQMMRLLQGDVGS
KTLVALLMINVAASGAQSALMVPTDLLSMQHFAFFKQALDGTSINPAVLTGKSTAKERR
LIQAGLESGEIDILIGTHALFQSTVEYKDLGFVVIDEQHRFGVEQRLELIAKASHPDVLV
MTATPIPRSLTLMFGDMSVSHVRTKPKNRLPIITTIISGTKKPALIESLQKKLTLGEKI
YWVCPLIDQNDKSLEKDEGSSRTGVAKAGSDAGSDAAYASVVERFAELNAAYPGLASMLH
GKMKSAEKDEIMQKFKNGEIKILVATTVIEVGIDVPDATLIIIEAIEKFGLAQLHQLRGR
VGRGELQSHSMLMYNHKRLSNTSKKRLEIMRKSNDGFYISEQDLLLLRGGGEILGTKQSGE
PDIFFADLGRDLKILIQANKSAANAEFSEFVEFQTQLFARDREELAQSG

>gene_320|GeneMark.hmm|264_aa|-|51139|51933 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIKQHLEDHYNIGKLYNSYLISSDNIEMALAEVEGFVSTYLLEKTGESLRGNADYMIVQK
ESKTTKNIAVDQIRAMQKFLYKTSIVSGVKIAVIYAADQMNLNSANSCLKILEDTTANTH
IFLLTENASALLPTIRSRCALINHHYDDGAKYSIDERFVKPLLKSTPLSERLAFIAEFSV
KDRGLWIEFSSAAESLVAKFSMQFAGVASDLSLREVFQAQFKSDSPEYLQMKYDQIGEI
IKNTNFDLDRASCALLIDKFRS

>gene_321|GeneMark.hmm|460_aa|-|51930|53312 >NVVL01000005.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTVRTRFAPSPTGYLHIGGARTALFNLYLFAKHGGGEFLLRVEDTDAARQADSAKQAILDS
MEWLGLVPDEEIVYQTNNAARHVEVARALVDAGKAYYCFTPQAEIVAMREAAYAAKEHFI
FHSPWRDASAESYPKDVKPVVRLKAPEDGETIVDDLQGGKVVVQNSHLDDMVLLRGDGT
TYMLAVVVDDHDMGITHIIRGDDHLNNASRQQLIYVAMGWDVPMVHIPLIHGTGAKLS
KRHGALGASEYKDMGYLPEALNNYLLRLGWSHGDDDEISRAQAIEWFGVGGMGKSPSRID
FDKMKHLNATYMRAMDNEALSEMVFSNIDEPISEESCGYIRLGMESLKVRAELVTDLCDL
AGMYIVDRPLVISAEAKEIRESDVSLIDQVSKGLGELKEFDKDNIAQTLKEIAKQNDLK
LGGLMKYVRAFIAGRTASPSIFEMIAILGKDNSIARLKNR

>gene_322|GeneMark.hmm|84_aa|-|53512|53766 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MIYEIENLQKARGVLSGVDGGVILSNPQGSTRYYGMRVIDHIFQTLKQEFPTKIEGFIVN
ADDYSAFTTAHALGYRTICYSKK

>gene_323|GeneMark.hmm|171_aa|-|53785|54300 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTHGGKRPKAGRPRGQGRYGTTHKAIRVPEYLADEVIDFALNRYKIPLLRIANIRVGS
LVADHIEDTVDMNSLLIKNPETTFMRAEGLSMSDARIYDGDILLVDSSITPVDGKMOVVA
SIDSALTVKPLSYIDGKPYLLPENPSLDPIPVLNPELHIWGVVTNVLKSL

>gene_324|GeneMark.hmm|78_aa|-|54391|54627 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MSEVIAVDQLRQYISRIEKLESDKADIADIKQVFDEAKANGFDTKIMKQVMKLRKLDKE
SLAEQEAILDLYRAALDL

>gene_325|GeneMark.hmm|178_aa|+|54832|55368 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MLLLMVVFALLQVGLVWAVIASKRKVDTKNMQLIQFYLDTKFLCKGLIDSLKFPESLTFC
NRFTSELKEYFNLEEIIVDSVDMPPANNANTVLKDRVIEFIEKNMDHIARGLHDFKFTTF
ILELDGKEYVLHISRILSKGEGDGFIIICIELAPSLLSKNEIATLETCINILRTRLVYE

>gene_326|GeneMark.hmm|278_aa|+|55446|56282 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTQKTPLPLGQKTEYISQYDNSLLFSISRARDEIGLSTLLPFAGMDIWNCEYVSWLSP
SGKPNVRIMRFVVAADSEYLIESKSLKLYLNSLNNSKFRSEAELLTIERDLSAAANSEV
HATFHRLDSFNEQSLATFSGINLDDLDVEISDYNVNSALLTLAHGNERASETLYSNLLKS
NCLVTQQPDWASVQIQYSGRKISHESLLKYLIIFRNHNEFHEQCVEHIFNDIMQKCPDS
LTVHAKYTRRGVDINPYRSTKNPVETVDVNLSDARQ

>gene_327|GeneMark.hmm|193_aa|-|56458|57039 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MNNTKMRKIIVGISGSSGAIYGVRLLEMLKELGIESHLIISKAHLTIAAETHSPAIEK
KLASYSYNPADIGARISSGFRDGMIIAPCSMKTLIAIANGYEDNLIARAASVVMKEQK
KLALMTRETPLHAIHLENMLKLSRAGVAIVPPVPAFYNKPSTIDEIVTHSVVRVLDLFDI
ETSAIVRWNGIAP

>gene_328|GeneMark.hmm|274_aa|+|57443|58267 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence
MTTTRIPDEVITELTNQIAVLKQELTRRDDFFTYIHHEINGLIHNIHFTSDVLSNSWDKL
RPDHIKEYIDIIFESAELYKITSTDLFDAARFNQDDLQRSFAKVDLAELIIDIIERCNKI
FLVQKDLQIIFKNTKNKPVVWNGDDKKLRQVLYNLLVNAIKYSKRGTINVSLESAHQEGA
PQEGTHKNGTHQDGAPAWQVNIQDQGMGIPESDLESVFTPYFRVTKNNKTIPGYGLGLSF
CKRLIDAHSGQIWVRNNQNDVGVTFQIPAFAT

>gene_329|GeneMark.hmm|170_aa|-|58408|58920 >NVVL01000005.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1394, whole genome shotgun sequence

LLYDSGKHEMASPKKFTPAERKGGKAKASYKEWFGQAKEFLIGSLKLRPSENAIGRNIRAF
MLHQACENAFIASSLVFKDDRRKLHDLVELEKGVAVEPEFLRSFPKETKRDKHIFDLIK
KAYIDARYKKYYEVDEEELTEMAEMVKNFHNLVKELCLRKIESFVENNEA

>gene_330|GeneMark.hmm|80_aa|+|3|245 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
RFLHGGTNEVKEQREVPFMIWFSDKYKAAYPEKWAAVQSFGRKDISHDYVFHSILDCIGI
ESDAINKSLSVCHRKKDDKK

>gene_331|GeneMark.hmm|520_aa|+|287|1849 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MFNFIQKQLDIKIIFAVFVAVIYCVLFNSPVLIIYKFGFYKANMWTAPLEIAKDFIYLVV
TLFAFFFGLSVHRVIFIAGAIILFVTGAIASYLFFFSIAPTLNIMPTIFGTHATEVYEL
VSLRLVGVVLFSLAVCLYGRHFNVKTSDFSFLTILSAVCLFYVAGNVTSPKFSFLKTYF
PVQYLHNSYVFFFGHSKNLTKEDISLKYSFKDSSDDGVLGVLVIGESARHDLRLGNGYER
KTPPNLAKMDVVSLKAQSCATSTYYSVPCMLSRNLNMKMDLVDSETTFLSVLTRLGFNTI
WLGSQSITKGYRNRKGGSFYETDFHMIPGGSLVLRPNALDVTLPYMEQNLSTKKQFV
VLHSTGSHWNYSKRHTKEFAKFTPAIDSSLIKKDAAGCSLEALNNSYDNSILYTDFFLSR
VIAKIKDRKSFLIYSSDHGTSLENGRFLHGGEMHLKEQREVPFIWFSDKYKAAHPKKW
AAVQSLRGKDISHDYLFHSILDCIGIESDAIDKSLSVCKK

>gene_332|GeneMark.hmm|34_aa|-|1891|1995 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
LSLKAYSFEFIYELIADNLSASQDYTKVKTRYAA

>gene_333|GeneMark.hmm|384_aa|+|1997|3151 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKFYIIAGETSGDYIGLLIDAIIKAERRGSASDGAEEFFGIGGNNMRKAGLDSLFPIDQ
INIMGFFEILPQILRIKKLIDLAARDIIRKNPQILVTIDAPGFTFRVAKKVRELAPEIKL
VHIVAPSVWAYKPGRAAKYAKLYDHLLTLLPFEPQYFTKLGLESTCIGHPILEQTFFKKS
PALKAEMGCDKDAKLIAITPGSRKGEIARHMPVIRQACDLLACTHKIKAIQVQPDSDNIH
QISSFLSGAKFDYFSTDRLKAFASDCALAKSGTNSLEIAASKTPMIVGYKMHMPSFFL
LKMMIKVKYASLINIIPNREIPEYIQSEFNKDNIFALSQILNDKKRAQDQVKGAEKIL
ESIGFSNGEKPSEIAAKIIIKMIS

>gene_334|GeneMark.hmm|681_aa|+|3151|5196 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MIAHYLSKKLQDEYHNLNLWYFVSFIFGIILFFKFTPIFTLNTIFTILFGTIILSRIFYK
RDLLFFLSACILSSSAGMLTSYVRMSSVSASTNPIKRPMISRLTGEVERIKPTLQGMQV
TIKNVVLERNITKKRGNLKKIRIHISNKLRSKLGHNKLRFKAKLFPQTSLVPGTYDF
GFYMYMSGIEASGYALTPPEILSKNESTGSKYIQTIRNKVYHRLIQILGGDNGNFAAAIL
IGETKAIPKTISENMRNSGVAHVLSVSLHLSVAMLFFVSCRVLNCSNYFAYNTNIKI
IAASASIIGSFMYLQISGSNIAATRAFIMSSVFIISLMLGRSPEPLRSIMIAAFLILLFF
PEYIFHPSFQLSFAAVLCLISGYELYIKYENVINSAKGIFFSIKFYVYGNISYSSLLASIA
TAPFVIFHFYKFATYSVLMNLIAPLMSFFMMPLGLISMMLMPFGADEFPLKALGFFISI
VTSSAAYITALPASVWAWGHISPMISLAVFSLCFFWVCLWKTWRLAGLAVMFLSLFMMNN

TKKPDFIYDHTLKAIGLNSQRLGSPKLGSPRLEFQIYVHDKMPKFTSNYWVSWYGAKES
ITRKKIAAKDLIFKLP SGKTVSLNYWRCTYADIQIITSKCLKCDNNGGQVISNKELWKHKQ
ILLYCDEKECRVQYREQNRWW

>gene_335|GeneMark.hmm|98_aa|+|5391|5687 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSKLPEPESESIEEFARLLSKQEGHSILKHTKLAAPILTVSSVETPPVETPPVDILNYTA
LFDTYAFNVIPKDKTPHHISAIGHAEVPTGDPTEAE

>gene_336|GeneMark.hmm|497_aa|-|5872|7365 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MTDSELPPFKSLRNIFWPIHKKELAKFIPMSALMFCVLFNQNVLRLKDSILISEVSAE
ITSFAKVYCVTPMAAIFVVIYMKLINHLPFSKIFYLLISVFTAFFILFAMILYPNVDFFH
MDGEKLSLYMQAYPHFKWYIALIGNWSYVLFYAFSELWPNVYVLLFWQIANDITSTSEA
KRFYLLFALFGNSALVVVGLMMMHLSSDNSIIHTLFTVSNKTMITKVSIAMVAVSSVCA
CLLVRYISNVIMKDPALYTEAERSTKPKLGIIDSFYIARSKYLWMLICTASFGLSMNL
IEAVWKAKIKELYPTVNSYMAFNMYILWTGVTIMIMTIIGNNIMRNSSWFVAAVITPLI
VLITGTVFLLVFDNNVMSFFEGAILMSPLALAVFVGTQNVLSKGSKYSIWDTSRQML
YIPLDQELKTKGKAADVVISPKIGKAANGLIQSMIFTILPMATYTSIAPTLMVIFIVVCV
MWIYAIRKIYFEYQKIV

>gene_337|GeneMark.hmm|395_aa|+|7726|8913 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MFDFAQEEQCKRYKSEYKFKIKSREVESYKKSIDIGYKSQIASLVYCGGAYKNTHATSSQ
GQDVPKDNPAKDIITKENSPTGNPSIDNLAPANLARNNSAKGESVFLIPISIFNSPEILF
LGDKNSFTKNLSTKNNLYLASWSQQTAIQLTMENYVNEVQKMISFLHSLGHKKINLIGHC
IGGNMCLAASSLQGINQSAEQSANQDAGQIESLTLTCPWDYSHFKKWVYLYDIMGFDTH
LKGINFIPKIYIQMMFFLMFPFQFKEKLEKYFALEQAHEKQSFLQIEAWLQSGNIISKSI
YAEIMQDFCRKNILQNNNEWLIGGELITPEKLDIPTCIIYAKDDQIAPHSSIAPLQKRIKS
STLIETEGGHIGYLVKGCAYLQTKYNEWIVENNLR

>gene_338|GeneMark.hmm|391_aa|+|8919|10094 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MQEAYIVSAKRTAIGGFLGSISSVPAPVLGAEIINAILRASKIDPSIIDDEVILGQVITGG
SGQNPARQSVIKAGLPIEIPAMTINKVCGSGLKAVALAASAIRAGDGEVFIAGGQENMSL
GMHGSYMRGGNKFGDTKLTDFMMYDGLTDAFSKEMMGITAENIATKFTISRKCQDELALS
SQSKALAAQKDQKQDEIVPIEVKHKRKTIVFAEDEGIRPETTLEKLSKLPKAFKEDGTV
TAGNSSTINDGAACLLVSEAAALKKYNLTPLARIVSYAQCGVDPALMGTGPVPASKKALS
AAGWNPLDLLEANEFAVQAQAEVNRQMGWDVAKLVNNGGAIALGHPIGASGARILVTL
LHEMKRSGAKKALASLCIGGGMGIAMCLEGM

>gene_339|GeneMark.hmm|94_aa|+|10429|10713 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSQFVKNILTKEPGSLLTQIVDMLSSVDDISIEISDSGVASISKEKSKFVIIKETIKLA
DKGGVFTPLKESIKTQDDFLKAATEAYWIVAKKK

>gene_340|GeneMark.hmm|195_aa|-|10824|11411 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MAKIIFLNGASSSGKTTIARLLQEKLSEPYMHIGIDSLIDMMPDKINNWVDANPDSVQGF
YWQKSLDKNGHNLAHITSGSYAKKVNSTFQDIVVLFANNGHNIIVDDVCIPPKHYDLWKQ
KLYEFQVYYIMVNAEISDLETREKSRGDRITIGSARAQNMLVHKDKIYDLKINTSKNTLEE
CAQKIADFIRSYEVT

>gene_341|GeneMark.hmm|139_aa|-|11421|11840 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MAKDVVGDKFDLFLYAVGKGDIVTFTDKTNAEIIISALVVAAQNNRAEMVRLKLNLA
LKNLDQDLSSISDITPEVWKQIQDFANDKDWEIVVSEHASHLAGRPVLGSTYWGESS
WWGIVIECFSSIFPDENSP

>gene_342|GeneMark.hmm|232_aa|-|11904|12602 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSDESMLALSILKGVSKTYMQGGSLIDVLKNVDLEVRTGQMVAIIGASGSGKSTLLHIAGL
LDSADKGSVSIQAEQIKNLRNANRVRLNNMGFIYQYHLLRDFTAQENAAMPLFISGVNK
QEAMERAGSILSDGLAERLGNMPGELSGGEQQRVAVARALINNPKIILADEPTGNLDKS
TAEVVFAMFLERAEEKFGSAVVMVSHNLELASRMHKIYRLECGLLEEEECARNK

>gene_343|GeneMark.hmm|414_aa|-|12595|13839 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MLSNFISILSLRYFSAKKNEKFISIISLAGIAIGVAALIIVMSVMNGFHIELTGNII
GLNGDIKITPVGKTIEHHEIHKLSAKSFVTKVTPVQVQALVLGKTANSGVLKIDIL
VDLKDKGSLGNVHSGSFEDYYGDNAAVAVGSLAGTIGVYARSKIKMISPVILPTLFGSM
PRAKDFKVVSVFSTDLYDYDSATMLMPISAAQKFLGLGEGINLLEINVDDSEKAKAYARE
LQKELGANIYVTSWLEEQYFLDALEVERSVFMILSLIMIVA AFNIISL FMIVKDKTK
DIAILRTIGASTKQIMCIFIINGMMTGFIGTALGVISGLLFSYNIENIRKLLESISGSRL
FDPAIYFLYTLPSVVRFGDVVAVASLALGISFLATIYPAYKAAILNPVEAMRYE

>gene_344|GeneMark.hmm|433_aa|-|13829|15130 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MLLSQYFLPVLKEQPSEAQVASHSLMLKAGMIRQSSSGIYSWLPLGLKVLRNIEIIRFN
MDASGFVEILMPCVQDGLWRESGRLDVYGEEMLRFKDRHGHDLFGPTNEEVITDIIRN
SIQSYRDLPKVLYQIQWKFRDEIRPRFGVMRGREFLMKDAYSIDLDEESAITYDQIFAA
YMRTFKDLGLNVIPLAADSGEIGGSMSEHFVVAETGESKIYYDKKFDIIGEDLMGDMNQ
RKSLYAATEEKHDPKTCPIPESELSVKRGIEVGHIFNFADKYSKPMKAMVNDNNGKQIPV
HMGAYGIGVSRVLAIIESSHDDKGIWPIVAPFKVSVINVNIKDELSCSLAGNIYNML
RSKGIDVLYDDTNARTGAKFATHDLIGSPWQIIVGPKKAASGLVELKHRASGEVDEVSPD
EAILMVVNSLNVK

>gene_345|GeneMark.hmm|189_aa|-|15237|15806 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
VTKPTKDQAEQAVKLLLEYIGEDVNREGLKETPARVVRSYAELFAGYALPIEDVLSKTFT
DVSEYNDVLLKKIKFTSLCEHHMLPFYGTVDIAYIPGGEVLGISKLARLVDMFSKRLQI
QERMTEFIANSLSHLNPGGVAVRVSAVHSCMSARGVAKNGAVMDTTYFTGEYHEHAEKR
KEFLDSIRG

>gene_346|GeneMark.hmm|462_aa|-|15825|17213 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKNNNTNLHAILWLKTGITALAIAGLYSIILVLLRTPGLNQLFTDKSIFKSALVIHVNSLV
LVWLLAITCIIWSISKVRSGFESLFTYIAIAGMALMALSPLYPESVPIMNNYVPMLENIF
FAIGLGLFGTAILCFAIQTILTSFMGDAFSDYGERIIAITKITSAMMYVAVWICFILSFI
GVSALSEIVPLDIEFFYEMLFWSGGHLLQFIYTQILMIVLLILAEGWRGGRIGSHA EYEL
ILVLNFVLSLAVFLGHAYYDIADGLFKEFFTRHMIYSGGVAPVIFIAMLIAEIVQKRTPN
VPTFIPAAFVSSVLLFLS GGAIGAVISGVNVTIPAHYHGSIVGISVAFMGLSYMLCFQKN
VAGSLTEKGGVISFIIPNSRSDNTKSQRSASWQIYTVTIGQILHIGGLALAGGYGVMRKT
PGEEIALSAKVYMGMVGAGLLAIIGGLMFVYICARKLFYRE

>gene_347|GeneMark.hmm|314_aa|-|17451|18395 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MFEKPLISFDFAIKFLLKSKEDYEIIEGFLSALFVANNYKPVKITALLESESNKEAAHLK
KSVADLIVEDTDGNKFIVEIERSFTPNFTHKACFNTARLISDSISTSQDYSKIQKIFHIS
LLYFETAGMEKPIYHGKTIIEVDTEHPIDIDIMNKGIATFENKNIFPEYFFISIPRFND
QIRSEMDEWLYMMKNSEVKADFKSPYMARVAKRLKVL RMTDEERIEYHKYLKESAVQEDI
LNAANSKGLAEG LQK GMSQGLEKGRKEGREGREEGAKLT KIEVAKTMLVKGLDINLISQ
ISELSIDEIMELKN

>gene_348|GeneMark.hmm|213_aa|-|18477|19118 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MPYAFRYRVVEAFVASFLYLIETICGIKYRVEGLEKLPADGKPYLLLSNHQSFWENCIFL
MLLPKHSWVIKRELLNMP CVGNGIRSVNPIAIDRSSNR SVMYILNEGAKKFKQGISLVIF
PESTRVSVHKNARFKASAARLALNTKVPVVLVALNSGLVWP KGIWLKRP GTITIKIIESM
SPEQVAKYDTR ELTDYIQQKITTEKNALVKAGV

>gene_349|GeneMark.hmm|310_aa|-|19351|20283 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MHKNFPQYASEAGMLSI AKLASKHGIIPKKKYGQNFIFDETLCDRIVRAAEIGNDSVVLE
VGPGTGGLTRSILKTS PAALYAIETDSRCLPLLEEIKLSYP ALEV LNQDALKVKLEDVIS
AVSAGGEEGSEAETSSKSKPSLEIATDKLDIVANLPY NVGSQ LLDVWLCQIEHVASMTLM
LQKEVVDRITSESSKRSYGRLSIICQLVCDVHKCFDVSPKAFVPQPKIWSSIVRLVPK KD
RPTKEILLIETITRHAFSGRRKMIKSSLKNLSPQIGDILDDLGIANTLRAENLSPEDYL
RIACHEGCRY

>gene_350|GeneMark.hmm|300_aa|-|20309|21211 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MRKLLSLFIVLLSSSIFTSSAYAGYPDIVALVNDQPITKYDFQSRRKMAIALNNIDVSDP
AVSRKLSRDILNILIDEALLDQHMEKVS GKVTEQEVD DSITVIEQRNKMPKNG LKMFLKS
KGVEMSSFRKQVKGELIKRNIVQALSGGVS VSPMELDVALIHSGNQVFDVEAWVFTSKNH
DEKAQKQMHGLQKRFKGC DKVEDAMYAEFADA EKFDRLHDL PVKTQAVVFDTKASSFSN
LYSEGDKFKTVFVCRKESAVSSADLNKIKSFLSNKKMSQKAAKFFKDLRAKAYIKNMISG

>gene_351|GeneMark.hmm|695_aa|-|21232|23319 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence

MFSGLSFDKQPISKNVSMKADSVFYDASTDIITAKGNIFVSMGGYSLYADQMNYDSKRDV
IFAEGNVRVVDIDGKVIYGEHVVLKDKLKRGVIKDFIAKLEKNSVITANSAIRLSKNKYV
MKGSVFTSCKMTCNRKPIWQLNAAHVGVLDLKHEDYKHFVFEVYGIPIYFPYFQHSTP
NAPAKSGLLTPKIKHGDFMLPFYFRVKPNLDLTLSPRTSGKYTIFETELRHVKYGGYEV
LGSYGNVEFKTTATNITKTTKTGRYHLFATGSFVNNDIHYGFDIKRASDKAYLTNYHKI
YDSYLTSKIYANKVNERNYFSLEGGYFQSLKSETSNLSTPLVLPVSVRTQNVYAIDEEESL
LLNVRSDNIAHRGSKGSQLARSSLDLELMKNIISDGGHMFSLANRADLYWVSFVDNKA
KKAKKEKEEILYRTIPEFRTKWRYP LARSFAAGFNVKIEPTAMVVFGRRYKSEFEKFAQI
DSPKNELSENNIFNANRYSGVDFHDYGRFSYGANLSLASESIYVDAFLGQLLQKNNIKN
ENNSEYVGSIAIDIEDDFELFYRFRKDKKLSPILEVGASIALERFTSKAVYTKLQNISR
YFAKDGFEFERNKASQVSFDMYDNLVNNLWVGFSSKLDVSSKSIKMLTRSIRVTYSFDCV
SINAVITNNSLLDASRGVKKTNDISFQVGLGINM

>gene_352|GeneMark.hmm|445_aa|+|23447|24784 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MLEDSTNDISQSEFSVSEISSKIKSLLSENLTGTVRIKGEISGLKIAASGHGYFSLKDTN
AVLAAICWRHALARMNFKLEEGLEVIVTGKITAYAGQSKYQJSAEKIEPAGIGAFIKILK
ERRLKLQKEGLFAKELKQKLPFLPKKIGVITSIGAVIKDIIHRISDRCGTNIWVAV
QGSASASEVTKAIDGFNKMAQKPDLLIARGGGSIEDLWSFNEEIVIRAAHASKIPIISA
IGHETDYTLDLAADMRAPTPTAAAEFAVPVLLDLRYTLKSLYGRISNRFMELVRYYSQA
LGNHTRALGRVSSDINNHTQRIDDLFRLIASLPNLLKQKQNALQYFPLSRLKPLKILKY
KYLQYKNCADNLLRKEDSLLSEPEHRLKISLSLLASLDYNNVLKRGYAMIKNKDGTIIS
INEVKKSDNLKLMQDGEIAVTCNN

>gene_353|GeneMark.hmm|35_aa|-|24841|24948 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSGEYLEHEFLEARSAGLEYLVFLEIFLSRFKFLD

>gene_354|GeneMark.hmm|601_aa|-|25057|26862 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKKFFLTLLMAAPIAYGEGVVLSYEGNNQFEVSNQNGLITGIAEAKLLFPAGSQLKFTH
EEDYLRDVIAASSYDLSNPSSMLVQKLNLEIQSIIDSWKSAKFTEEQREKILKTSYNAT
QKCLKEDKVINLANLDHKVYWTCLIEITKELFKKDPKTEDANALLAKNAEKLLARVQIDL
LRLEIKGQEIQNIITKAEDGYFDPATFQQALDNVHAGSAVIEQRLNSYRQKQSTQETFV
EKLKDLADEKDPHKKQAYLDNINANIDLYVNPDIKAGDNPDELPAIQPEETADAMTKMM
ATTFETVNQVAGLVSSRVMNKSGLIASGNAFESYGLWLKGLYSRGEQKAYKGKNGYKFNQK
SVIIGADIGDESLVGFAYSFSKSDVKNQASSKNKDDISTHMGTIYGKYALTNQVFISGQV
QLGTSTIKIKRDTGINTISTAKPKASIVSGRTEFGYSFAASQNLLFIPTIGVAYSSIKVD
GYQEKGGTNRSINKMTTKRTSALAGVTAQYVHDTGSVTLPELHFNVEYAFNAKNSDTV
KFGSLSPITTPSEKPTKVRYNFGTSIRIINLGAFEFSVGYDLGAAKKFVSHTGTIKLRVN
M

>gene_355|GeneMark.hmm|142_aa|-|27045|27473 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
LIGILSILSFLFGVYIISNLTDNIVFFHPPSEISKIQPGATKARVGGIVRAGSILRIS
AKKISFIITDHIADLRIEYEGVLPALFREGQGIVAEGMLAPKPSPGSALELAPDTIFIAS
KLLAKHDENYTPPEIKRISRQE

>gene_356|GeneMark.hmm|51_aa|-|27475|27630 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MITYLISAYSFTFAILGYCLAKTILDHRATNANAANEVTSKRVRGEDKKKK

>gene_357|GeneMark.hmm|92_aa|-|27979|28257 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MNKGEFVSFMAAKHGCTKADAESIDMFTSSVIGALGEGGEVSLVGFGNFSVDVAARAG
RNPRTGDPIQISAYKQPKFKVGQKLKDACNNR

>gene_358|GeneMark.hmm|148_aa|-|28392|28838 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MNSFQETRLVPYKADLIHEIIMGIEQYPEFLPWCDKASILERHDEFITAELGVNFKGFSE
GYVSEVRSSKTDGYYVSVRAISGIFKHLENKWSIKNVNNGSEVSFSIDFEFKSKILDGV
MGMIFSLAIEKIIVSFESRAEELSRKLV

>gene_359|GeneMark.hmm|299_aa|-|28860|29759 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MTEETTLKRPDWIRVKAPNSKEYQETKKLIKDLKLVCEEAACPNIGECWSKKHATVMI
LGSVCTRACAFNCVKTGRPDLLDPHEPERLAIIVGKMGLEHVVTSDRDDLDPDGGAAHF
AECIKEIRKTAPNTTIEILTPDFLKKDGALEVVAAKPDVFNHNIETVPSLYKTIRPSAR
YFHSKILNDVKKLDPEIFTKSGIMLGLGETTEEVQLVIDDLRAADVDFMTIGQYLQPTK
KHAKLDRYVTPPEFTYLGRLAKTKGFLMVSSSPLTRSSYHAGDDFKMRLARQKQLELI

>gene_360|GeneMark.hmm|360_aa|-|29756|30838 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKKVYLESVELGNYNFADLSLDFFAQGMNIIKGPNGCGKTNILESVSFLSPGKGLKSANF
DDICKFTHNSWSSNFHLQSKMGRAEISTSFSENERSRKINYNGSKLSGSELTNLLNVIWL
TPQMEGLFLLGGASARRRFLDRIVNFDKAKHAKNLKAYEHFMRQRNQLLQGDIEQASWL
TKLEEHMAIEASIDASRREVAFLMQESIDKLETEFPKAQLEVMKLVENQQDTEGFLEY
TGALAASRKKDSYSGRTSFGVHKS DLLVFHKAHNAPAALCSTGEQKALLISIMLASIAAL
LENSNTTPILLDELFIHLDEERKKHLSEYITSSKLQTFITTTDIVGIEDLAKNAHIIDL

>gene_361|GeneMark.hmm|309_aa|-|30869|31798 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MPKPSEKFMKPSDNEAPSGEEDPSRAIARSLKSTFKSFYEKVKSKIKLKSQATHIAKNS
LATTTGKHIATTLSEGQIAGNIKGFTEKVVEDILIPRSDIISASTDVTLQELSKIVIEHT
HTRTLIYEKELDNIVGFVHIKDLFEVIANSREFNLKSLTRKHIIAPCSLQLADLLAQMQK
KRTHIAVVVDEYGGTDGIVTIEDLIEELVGEIDDEHDTDHNENSFELIKPGLLVTSARAE
VSELERFLGVKFKKSDDEFITIGLLMAKSGHVPKGVVMNITDNIIAEVLERTPRTIKK
IKITYDKDQ

>gene_362|GeneMark.hmm|171_aa|-|31815|32330 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKINVEIARESQQDREQRSFLNEEFIAEITERVLSRYPAFAQSGEFELSILLTDNSKMKSL
NKEFREKDKATNVLSFPDEDLDWRNIDKINKADKTHLDSSEVFLGDVAFGYQIIEEEAQE
KSISFQDHFTLLIHAHLHIGYDHIEDEDAKAMETLETELLQSLNIASPY

>gene_363|GeneMark.hmm|341_aa|-|32395|33420 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MQAVAYNPGQLNCYCCFMKKFIFSAIIFLVLLLTWIGALYFVLLKTDIATVPVNTTTE
LSQGEYKPLTALVSYGAGRPVFLSNQFTLAESAINKGIEHIYLYGRHNIDEEFYKHK
KTLEQPRGAGYWLWKPFIWKTMEQLPEDSVIYADSGIVFSKPPAETLIPFLDKEYDII
FSSHGHIPLGIFMKKEAQIILGIDKNEKILNSPEIWADFMIIKNNASSKKFIKKWLKLC
ENPDLLTDSFPDPLDQDKNLRHLHDQALLTFLVATNPQRKMVIKNLRERSGFGIHNHFR
HPEDKYTSPKFHAGIKKKIANLLYNNSILQKIREMQDTIQ

>gene_364|GeneMark.hmm|539_aa|+|33612|35231 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MTATLEEIAKSDKIKELYDEMPYASCPFDYNKPEHLCTIATLFGMSPPALENARILELGC
SDGGNSFRFAEIYPNSYTLGVDLSEVEIKNGQDILSQLKLNKMEKAMSITDLDESYGKF
DYIICHGVFSWVPDFVRDSILEVSKLLTENGLAFVSYNTLPGWNMVNTVRELMLYHSAG
FDNIQDKILQSRAALNFLQSSLDGQDTPHAKFMGEMAKHMSEQKDYYLRHEYLGDENKAF
YFHDVIDMVRAHGLEYLGDADIQKMYTGTLPEVAEKLSAGDVVKVGGYIDFIQNTQFR
STILCHQGASIMRDISADLLKLYFYCTITSKPTEEGLAPNIVDDSHVNFYLDNVESNTL
GTASPAIKAVFTTFAQNRGNALSFDDELGGANALVPEVSLELIQAEILNFMHLIFSGHI
KIISNKPANIYEISDKPKISALSRFQIDRSTGQVYVITNALNAIVAFKIQHIKLIKSLD
GKTIKQLQKQTLSEFKKEIVASENNEKIEDEARLKPIADNLVNNTLGALRQNFCLIA

>gene_365|GeneMark.hmm|173_aa|+|35312|35833 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MFIDKIPAKTKNGDFNVIIEIPMNDNPVKYEFDKESGAIMVDRFMQVAMSYPCNYGFIPH
TLSDDGDPADVLVMSQHPHIIAGAVVKVRPVGVLMMMEDESGMDEKILAVPISKLDVTFDSV
KDIGDVSDMLKQRIHHFFEHYKLEKNKWKVIVGWENAEKSLQIIEEAITRAG

>gene_366|GeneMark.hmm|52_aa|-|35914|36072 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
LLNKELSEIYICSGVVGLEALRVALEFLLPGLEYSFLIFFHLLFFNSKILI

>gene_367|GeneMark.hmm|204_aa|+|36288|36902 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MPEKKDTTQDDINPHLRSRFELEMSSILEDSSDQDLKSMERIFQCSNTPDELESKLT
LLSKYAENLVSQKEMQATHEIQDVVQREITKFCNLTCLGKGETHSSRDSLDKRCILTI
ESRKNLQREIQNFTIYLLYKVLNPKRISGETAKGNYINLIARGKNVAGKYTGQEKDLK
KYTDREINAMQKQAALARKGSFSR

>gene_368|GeneMark.hmm|640_aa|-|36924|38846 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MICLNCNLSFAKENSXKLFKLMKQHKWEKSYKLASKIGDPALGKIVLSQQYLDNKYKKN
SFEDIAKFLRANPRWPQNYLLRLRLEGRIEENTDKKLLANWFKRNRPLTGRGYKYHALTA
SFYEKNPDKLSTIINKGWRYGSFKAEGQREYKFKKHLTENDHVRKIDNDLWEGNVSAA
KRSLHLVSPGYKKSFNAQJAFVQKKAERFFRRVSAKYTPGLVYRYLSSKTKPPSAS
KIDKLIKMVKSDKRYAGRFWALQSYLARESLEKKRYRDAYKIASGHFTVNAGNRSDAEFL
SGWIALSFLKNSKLALKHFRNFNRVVKTPISKSRGIYWLGRAHEKGRDIEKAQRLYNLAA

DKYPYTFYGQIAMVELKRAKMHLPPAINLEKYKKSSLAYLKNHEIARATQIVTMYGSNSL
SEKYIDAAVSGCKNTAEVMNMVMTALKKAKNIHYMVWAAKAAVRKHVFIKNHAYTPYKVS
KFPLETPLYSIIRQESVFDKRAISSAKAMGLMQLIEPTACMTARSIKIRCRISKLTDDI
NYNMRLGNSYLGQLVKQYSGSYVLAMAAYNAGPPKLNKRLKIYGDPRKMKTLRQVVDWLE
LFPFPETRYMQRSLEHLQIYRNIINKDNDFRLERDLLVK

>gene_369|GeneMark.hmm|315_aa|+|38921|39868 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MNRAFIFPGQGSQSISMGKDFYDSEQSAKQAFQSVDDVLGYSLTDIIFNGTSAELAITTN
TQPALMVTSMAILRVLEEKSGKKIDQLCKLVAGHSLGEYSALCASGALSLEDTAKLLQIR
ASSMQKASPKGEGGMAACIGIGRAALQDMMGSLISEGVCQIANDNVEGQIVISGHEENID
HMIACLKDTGYRAIKLNVSAFHC SLIKNAEPMRAALDNATFNALQVPIISNVSAELVD
DTDVIKQNLVTQICGTVRWRETMDKMAAMGISELVEIGSGRVLAGLAKKSPHEFTVHNIA
SMEDLSKFLRSYEVS

>gene_370|GeneMark.hmm|491_aa|+|40495|41970 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MGLDIKAPENVILKPIITVFGVGGAGGNAVNNMIKSLKGANFVVANTDAQALTHSEALN
KIQLGATSTKGLGAGASPEVGKKAALAESESEIRSYLEGSNMLFITAGMGGGTGTGASPMI
AKIARELGILTVGVVTKPFLFEGSRRMRVAEKGLADLQKEVDLIVIPNQNLFRIANENT
TFQEAFADEVLHAGVVRGVTDLITSPGLVNLDFADIETVMGEKGMAMGTGEASGEERA
IKAAEQAIANPLLDQNSMCGASGLVINITGGKDMTLYEVDSANRIRREEIGDIDANIIFG
STFNPELDGIIRVSVVATGIEGTGLTHKNREEEALEIAKNQQVTRQTQEDQAEGNLSGR
NLAEGNPASEEFASGGVASVSDVQPPSYNEYDDKISEGEAELQKKLEQLARQMDWNKH
QQISENPQSSAPSPAPLPRKPSLLRRMWNSLKAADSEAVPHAHTPNSEQAAMQNQADKTP
EIQEIPRFRKE

>gene_371|GeneMark.hmm|307_aa|+|41998|42921 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MKINSQKSSKQTHKYIKHIELAPYNPDWPKLYESEAAARIKQALGDNYIAIHHVGGSTSVPS
LIAKPKIDIIAVVVDLQRSIKTLEQIGAEYRGEYNIPGRYFFRKRGGIDVNLHGDIDVNL
HIYEKDHPEIELNLMFRDYLRTHPAARDQYALLKQKLLQDKSSFENHRTFTEYTMRKGD
FIREILKDAGFSSVRIIRCSDQTEWSAAKLRKQYFTNIKSNDPNDLESCYLNAQNAPSA
PAARRAFMDEDEHLALYKGPEIIGYSHIHLPGNNKPVIRILIIDENHHGQGFEFKFLTLI
REFIIAS

>gene_372|GeneMark.hmm|522_aa|+|43139|44707 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MTDISGSKQTSSKSSEIPLSPLSKYAKFLDYIWPieraELPKFLSITLLMFCILSIQNLI
RAMKDSVINTMIGVETSSFLKFWGVMPPAAILITIIYVKLVSVMRGENIFYLMMSSFLGFF
LLFAFYLFNHEMIIHLNPETTQALIASYPNFKWFILLSNWSFSFLFYVIAELWPSAVFAL
LFWQFVNKVTTVEESKRFYPIFGLLGQTGLYLCGTFLANLLVINTYFTDLFTLEESQSVV
SIKIVMILVGILGVALATFWVLNKHILDISTTENLQFRVKKNQITLKEKSLKIIVQSRYI
RLIATLLVCYGIAINLVEGPWKAGALKVYTTPEWAAFTGNYLKYTGVLTVLFTIIGSNL
VRRLGWFSAIITPIMVLVTGLAFFCIANFKFSETLIIMYFSFSDPVMMLAIVIGAMQNVL
SKSSKYTLFDSTKEMSYPVPLDDQLKTRGKAAADMIGTKLGKSASALLTSLIFVIIPTATY
ASISTFLMWIFIGICGVWIWAVIELNKEYKIACKNKGDETIY

>gene_373|GeneMark.hmm|195_aa|+|44859|45446 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MRARMALHYSIDIAYDLREVDLKNKPQAMLDISP KGTVPVLQLTSGEIIIESLEIMHYAIA
QNDPESICAVSKETDLEIQVLIQKNDIEFAKLLRKYKFEKHKEETQESYRKQIEDLFLI
KYENMLEGNDFLFGKSLADIATLPFIRQFALVDEDWFFESRYKNLIRWLNSFICNENFK
SVIMAKHPTWKESSC

>gene_374|GeneMark.hmm|187_aa|-|45694|46257 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MLLIVGLGNLGTKYQNTRHNVGFMAVDLISDRYNLDWSTKSKFDADIASGECELGKIILC
KPNTYMNLSGISVQKIKSFYNIPISDIIVIHDDIDVLEKTKYKLGAGGAGGHNGLKSIDS
AIGKDYHRIRVIGRPNPNHDVSDYVLGKFGAREEISIMQQLTKLEESIKLLADKDTDK
FKAASK

>gene_375|GeneMark.hmm|216_aa|-|46259|46909 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSEILALTAEARKELGKGASRALRKRGMVPITYGAGKKPVSLSVQEKELTKYYRKPQYI
SQLIEFRIGKEYTVLPKAIELHPTTEMVRHADVFLEKEMQKMQVPVVYTNKDVCVGIK
RGGYFNTARRLITLCPIANLPRSIEIDTSELEISASIQAKDAPLPKGAKLLGDPNFVIA
SIIGKRGKSDDLGDDDGAPAEGGGDAAKAEDSKEAK

>gene_376|GeneMark.hmm|310_aa|+|47190|48122 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MAIFSLVFFKVLSSLLSVLMGFLSGKYSDVQKESIASLLFFFVAPIVFFAIPITSANLTIE
SLGITLLTFLSCTMLGFFSYWLYGKVVQDSHRNIALSAGTGNGGYVVLPIATALFDDHT
LSIFALGLIGISYIYASIGCYFCARSMGTFRQSVLRVARLPLLN AFFLGCLMSLSGFHLP
DFFDEFVNNMKGAFSILGMVVIGLALSNIKFKFDMKFTSAAFASKFLFYPILFNAFILL
DKYVLGWYDVNDYNALQLLICIAPMATNTIVLASLYKIHPEKVATAVLLSLLFVLLYMPVM
ATLFIIEGVVV

>gene_377|GeneMark.hmm|319_aa|+|48137|49096 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
VYKDMTKSTTIKTKFLVIGSGPAGLTAIIYAARAAMEPTLIHGMQPGGQMTITTDVENYP
GFAETIQGPWLMQEMEKQAEKVGTKLVHDYVERVDLSSRPFKAYTSSGDVYEAESMVVST
GAQAKWLGLPSETKFQGFVSGCATCDGFFFKGKEVVVIGGGNTAVEEALYLTNHASKVH
LVHRRDSLKAERILQDRLLKHEKISMIWDSTLEEVVGTEDPKSVTGVRLKNIKTGDVTEL
PCEGVFIAIGHKPNTDLFKDQLDMDKEGYLITQPGSTATNIQGVYAAGDVQDKIYRQAIT
AAGTGCM AALDAAKFLDGE

>gene_378|GeneMark.hmm|484_aa|+|49100|50554 >NVVL01000006.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MSKPEGIITEDSLRRTL PANFRAEQMLLGAVLINS DLTEQVNEFLKAEHFHEPLHQKIYK
GIETLIEKGLSATPITVKSMLGNDPLYIEAKGDEYLIKLTTIAMVVINPRDYGKIIYELA
IKRHIAIGEDIVNDSYNSTLEQTASEQLEQAEGKLYQLASEGMVDKGFAPLKDSVADSM
ASINRAMKNSEHITGISTGLIDLDTMLSGFHKS D LVIIAGRPSMGKTAFAINFALNACKA
LRRRTKEGKPPSVGFFSLEMSSEQLAARLLSMMARVDSTNLRNGMVSEEHYNDLRKASA

ELSEMPFFIDDPALSIVRAKARKLKRKNNLGIIFIDYLQLLRGTGKSDNRVLEISEI
TQGLKAIKELDIPVIALSQLSRAVEQRPDKRPMMLSDLRESGSIEQDADVVMFLYREEYY
LKRSEPPSSDPKYAAWQENLDKFHNIAEILIAKHRNGAVGNVRLHYLEQFSSIGNLDKAR
MQNF

>gene_379|GeneMark.hmm|349_aa|+|50573|51622 >NVVL01000006.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_1705, whole genome shotgun sequence
MITIKPIIFGVAGTSLPEEAQLFRDYPPAGFILFSRNIESKAQLTSLTRSLKNLYTERD
IPIFIDQEGGRVARIKPPAIASKLYPTGKYFADLYDVDSQAKDAICANYAAIMSELKELG
IDSPCAPVCDILYAGASDVIGDRCLGANADKVVLDLCKSAISGIDKSSGIPFIKHIPGHGR
ATVDSHHDLPVVTTPLAELESTDFKVFKELSGEGVWGMTAHIIYTALDDAPATCSRIMI
DYIRSEIGFNGVLVSDDIGMYALHGEVVGQKHSIAIKKILKELENIAETKNIEDIEDLEKIK
VYNKLEEINPEFLESIAKVTRMSLSAGCDLILHCSGDIQEMRAVCEAL

>gene_380|GeneMark.hmm|278_aa|-|2|835 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MSEVIEEVKEAKEAAIGGDATVVEEFVSEESVLSEESIVEQENVATNALKESEESFKTP
APPADRPKSTSKNNKKRSPHDKLFAIFGNEASARGILKKHLPEDLKKHLDLDHLKVERD
TFVSEDLKESMSDIVYKIKTKNQKKDGDVILFLCEHQSSNDKMMFRLWKYASAWEPYL
ARNEPLPIIAPLVLYNGKRKYSSYRRFWDLFTNSKLAEKIMAGKCQLIDLQSMPEDEILA
DKEFGLFKFFMKNIKRDNGIELWRECFKFKFQEHKLDK

>gene_381|GeneMark.hmm|86_aa|-|1378|1638 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MDQGFVAEVSREAIYVLISMSAPILGVALAVGLMISLFQALTQIQETTTLTFVPKIIAVYF
SMILILPYMFSLKIFVDHIMQHIVG

>gene_382|GeneMark.hmm|249_aa|-|1668|2417 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MNKFYLIFLSIFILTSCSDTIERLKRVGKAPEFENIELPTVEEDEDEIERRAERLKLQHA
HMQKTNSLWQPSTRFFRDSRAWKVGDIIRVVVQIQDNASLNNSTNQKRTGSDTLGIPKL
FGKEKAIKANLSSVADMESLVSTKTTRNHNGSGSISRKEDIKTEIAAVVVKVLPNGNLVV
QGHQEV RVNYELREIKVAGIIRPKDITSDNAIRTNQMAEARISYGGRGIMSDVQTPRVGS
QVLDIVSPF

>gene_383|GeneMark.hmm|237_aa|-|2410|3123 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MKLYKHALQLLLLQILLVLIASPAFSFGRDDFVAQTIYDLLQEKSQDKRIIFEPKYSSGK
KMDAIKTHLEDIKTITLGKFEPSRSSFRAIHYNNGKSDVLSGRYESYILVPVAARYIKF
GSVIQSIDFTTKTRLVSLAQGYATEESEIIGMQSKKYINIGHMFELRELARPLVIKTND
PVNITYSVSSIHKTVGVAMGSGVGDMLRVKNTSSGAILLQIINKNTVQIGGNE

>gene_384|GeneMark.hmm|262_aa|-|3350|4138 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MTIALHTAVTGAEAQQTRINIIAGNVAAVNVVDGYKKQEASFADIFYTNLKKAGIENSEA
SPRPIGAQIGMGVKLVGTYRNLAQGPLNQTFRALDMAIAGGGYFAITLPNGRVGYTRAGN

FQKDAQTGNIVTSKGNPLTNGIAIPEGINVEDIQISDNGLITAQDPDNPVGLIEIGQVEL
FTFPNESGLEAIGDNLVETVGSGEAVNIDDLTGRIKQRFLEGSNVQAVEELTKLIEAQR
AYELNTRVISTQDKIMETANKI

>gene_385|GeneMark.hmm|265_aa|-|4323|5120 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MESFTTKASKLFLCLIFLSGLLGFAQCACANIASYISLSSQIARQTQLDVIANNNTANANTV
GFEQDNLLLRPVPLKQDKKKDISFVWAETTYRSGDDGPLRRTNRPTDLAIAGSGYFKLRT
PKGDRYTLDGSMIINNQGILVNHSGFPYLSIEGAEIEIPNEWISIDISQNGVIFVDEEEEV
GQIGVFQFESADPVIKEGKNLYAIQGKDRVLEDFTVISGALRGSNVNATLAMAKMVMEMQR
AFGLVSGLVSKIEEVERSVISKLAK

>gene_386|GeneMark.hmm|207_aa|+|5290|5913 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MAEKKGENEEEEPLTPDEAKDGAKGGDKGAKGEDGENAEDPASAKKKKIKLILAPILI
IALGTYLFFLVKAPKHDDAAALDAHSAERGDGHGGGHGANPIKAKVNTYLDIDPITVSL
LSTRIKKEYLKLDTLRLSSEHDSTTLETMPPIIKDALITFLKTLRKSDFNSSSSTIYLK
EEISKRINKIAAPIMIKEVLFQEITVN

>gene_387|GeneMark.hmm|318_aa|+|5920|6876 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MAEKEKKPDDKETKNKNNNNDDAHGSGVKEMLEQLSQSYDKLPMLEIIFEKFKIRKLSTAF
RNFTSEPMNISISESTSMRFGNYFESLKNPSSIVVFKAVEWDNLGLLILENDMVFSFVDL
LLGGKKNVQNKKEDKERILTSIEQGLARQIAELTLELQGSFDQVPTTTFADRLEINP
SFATIARPGDAIIVLKIVVEDEQVKNLELVIPYKTIEPVKEQMQQIFLGDKFGADHEWE
DMLSDSIYGVLEPIEVIINNKSTSTVEEICKLKIGDTIVMDHAEDKDVIVRSGQIPIFTGK
IGKVDNKVAINLKNLYEE

>gene_388|GeneMark.hmm|184_aa|+|6882|7436 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MLLLDFLLIMVTICVGYCWVLNRRRIHDLQNSRIEFARMIKELNASIVKAENNVNEMTEL
SKVTSTEIKVVVEEAKEATLELAAITEMANQLSEQLSAQFSFDDSKEEEEADSEANSLHS
KESEKFTDEDLAVPAGKAEGNGKSYTNDLKNFITNIVTKKPEDQGVNQLNQMNYDTRLKI
NAHK

>gene_389|GeneMark.hmm|218_aa|+|7433|8089 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MKASLFPILILLITLFIKASSLFGRIQEQTSYALDTSATSMLVNTAYAGGHKKKAPPP
EPKKMLPAMPKAKKSTGTSMVNNLTRSEVNLLKELSKRRDKIDKEKKALKLREQVLKET
ENKIDKKVTELQALQSQLEALMKKYEKKEHGKILSLVKIYETMKPKDAAKIFNELEMPVL
LRLVSNMKEVRVAPVIAGMNP SKARELSIELAKQKPIE

>gene_390|GeneMark.hmm|261_aa|-|8363|9148 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MDKKVDMNREISMNRKKVSINRMVTKKQIFAFIAALIIAAPFSGYACDSKKEGTYLNIS
ASTHSTAGNDLLVAKLRFEAEGDDAKALQNTVNKVMKLALAKVKKLKDADTSTVSSVYKS
SSRGKKDAPRKIIWHANQTMTIKGFEEIILTLTGKLNMGTLRSLHYVTSLEKEEEEIR

DSLMEKAIVKLITKSKRVAVAMGKKDIEIKSINVDAPHFPMNPAYGQEVSLMGASSKNAP
SASPGTNRVTMTVRASVLIKD

>gene_391|GeneMark.hmm|555_aa|-|9176|10843 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MLTSLHIKDFILIEKLDLDFNEGFCVITGETGAGKSILLDSILFCFGGKTSTSLVRPGAD
SCSVAISFASDDAAKYLSDIEIAGSEIVIKRVQNVQGRKKFFINDQLVSAKATGQLFG
CLLELHGQHNHTKLVTPAAHLEILDEYGGFSAELRELAGSYRNWQDLEKEIKQLAKDREA
LAEIEYLAHSCEELQKSQVQLGEEDSLADMKRKLQNRDQEI AKINDILRDL DSSSIEQI
VARSQRSIDSFGEHDLLEKVNSNLEIMYDKIEDSKTILTQILQEFQNI DQSAEEVNDRLY
EIRTLARKHSCAPDDLPDFLAKSEEQLERLEARLANSANTQNQAKQAKVLYFEQATSLSQ
KRSAAARELAEKTTKELGSLEMKKAIFKVEVNSPGAPGAPGASEKVATLKGIDSVRFIAS
TNPGM APEPIDKIASGGELSRFMLALRVALFDKAAKQTIIFDEIDVGISGSVADSMGERL
KLLSSVVQIIIIITHQPQVAGKADQHILVEKTQHDTHTSVVAGNLGAEGRSLELARMISGK
RITKTSIEAAKELII

>gene_392|GeneMark.hmm|247_aa|-|10884|11627 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MNYIKLSLIALASFALV SCKSKPKD TDAITPAAEIYQAGVGM LAEKQYKNAALEFEKIF
FQHPGNEITPRAELMQAYS LYLDGEYDEAVD VLEIFIKLHPRHSDIAYAYYLKALSNTYQ
ISNVKLDQSRTRYAREGLREVIKRFPGTKYATDAALKIDLVNDHLAGKEMMVGRYYLNKK
NPAAIKRFQTVIDKYD TTSHTPEALHRLVESNLMLGL TEEAKKYAAVLNHNHYHDSQWYG
YSYNLLK

>gene_393|GeneMark.hmm|454_aa|+|11809|13173 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MLHVFNIMKELFSRVFTALLVIQLYIFGACAGDINYTYSKDQGLYVNFDDL GKVKIGADV
ECGFVRD GALYASFGVEAQIFKCSKVLSFDGITNNAEEAGN WFFKLDVAPLYESIKVEK
KERKIYKKDSKGN DIDGNNHYVDWYKNLGSRLYYLGN IPIEAYIGYKNTQH QIKLGRVK
TIMGLADEEVFFGDDAKFAPMGHWLTRDLFSGIDYGF SHSLADIN VALYSGGNPTKGYSY
YLGGVETPNLKS NNTPSFAGKV KLYSEFLGEDIDGYVFAS YLSNMTGSTWDNETQD GKR
NASVIAYGATFKFNTGN KYLNSIGFFGQYNQYISGLREKGSQNDGSKKFKDIKQSGYFIG
TELKGFDDKISLGAAYEKIDRFDYNLFQYNFADNNP FKNKQTS LILQAKYNISSIVSL
VMAYHKISNKALFASDILDTRKTNRMKIGLRVAL

>gene_394|GeneMark.hmm|164_aa|-|13429|13923 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MTKEDKLIFGVISSAHG IKGDLVKS YTDPAQNLLSTNLV NENGEVVALKFLREKAKGS
LVCKFSGSNDRNHAELLKGTKLYCQREDFSQTLDEEEFYFEDLKNLDVRDDSGNKIGVV S
NVANYGAGDIIIRFDS DSKEEMFSFTKEFFPHVAKDHVVFAGK

>gene_395|GeneMark.hmm|865_aa|+|14007|16604 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MKKLLISIVITGLIFALITASVSITDFSRVYQDFTKSARIDMPAMEKSKFRIKKFPIPY
IIIDEINQKDN IKLNIEVHFHTPLSLLMFDPKIAEIKIESAIKYINHDDVNFLTHHEFIA
ELISEGALS LQAKIGRLT FIESDGDSPLEIEDFIYESADGITHFHGKIDKSSHITGSFAQ
SGDEV MFKLNMD D DYHYNV SIEEKYKNAALES GKVKIVTDRLSTNLSNLIPDVNKIAHMLS

SSENVTITFDIKPTQNHTEFKNILITSSFLSGKGEAILSTDVKHASVVDVDFSDQIDLAAW
SKDRAPEMKSKDNREGEEHHHTIYRKFDNFHNLKLNITANSVKLNEHSTLSKVNIAANIG
EGALLIEDFSGKIDQEGKFNITGGVVQNSFRSLFNGKIKLHHKDLNDFAEIFYGKESLAK
NAIPFYSSDIKLSSVDLSLRNLLLKTNEAEMIGHISTKFIGNTRTNATVKFSSMSLDD
NNFPVMPGMLQKFISFADGMKKPDYLSKFTPIRQINSISNYDLSFDKLTYNRGLYENVRF
NLELSPSRASLEQLVIHSGDEFIDTTLTLETNDIKPTLTITIHNAYARANFLSAPSLAL
KNRILEHFDLSKINIIMDCSFKKLYDDNVVLEKVLVFAKSNKNLLRISKFSANLFGGRLQ
SSGSILLEPYTLNFVYALNSAQIDEIAKLFKPNFLNIGGIMSANGAWSTRGEKPNQLLYN
FYTKSDIIAKNIKINNFSDDFVKKINLPSYNRANLSKDIKALLTGSTTILDKTSVEM
TKGILKTTSAAFKTNYSAGSSAALFNIYDFNLDSSSIFSYLTAPKNSSASNAEPTQIGI
TAKGQLFSPKKEATYNKLEKALKAR

>gene_396|GeneMark.hmm|380_aa|+|16799|17941 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MTENDNQDQDLMVAEAEQTEEDAKVEASMAIIKAVKTAEEAELAKSRPPAEDTALAELVE
PESHEEEEGEYLSHDPLICGTLAVKSHAIEFLQNYLPAKVQESVDLSTINVEPESYVEDT
LRKKMSDLVYSVKTKDGRDAFIYVALEHQSTVDRMISFRLQKYMLLLWERHKKNKIPGKL
PIIYPLVLYNGKEYTAPLNFWELFEDPVLAKEVMGGDYTLIDLQSMHDNEINYNNTSL
VLSVMKHIHDDTLNMLDLLFGRCKVALSLDKKEDYLLLRMVEYTNPKVPVEKRKRLEK
VIKNHLSKKEGEIAVKTIKDSYKEEGRVEGRVEGAEHKSLQIATNLLNQSLDKSFVASVT
GLPISEVTQLQSNHSAGSS

>gene_397|GeneMark.hmm|429_aa|-|18081|19370 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MAGKEMTEEFELKINNETYKLPKSSIGPDVVDVTKLYAETGYFTYDPGFMSTASCTS
KITFIDGGKGVLRHRGYEIGDLANNKDFLEVSYLLKGDLPNAKEYKGFKDEIHKHSLVN
EQIRNIFGAFRHSAHPMAVVLSVVGSLSAFYHDTIDMNTAEGRELCAIRMIKMPPTISAM
TYKYSLGQAFVYPDELPAENFLHMMFATPNKKYKVNPLAKALDKIFILHADHEQNAS
TSTVRTSGSSGNPFASVCAGITSLWGPAHGGANEAVINMLREIGTIKNIPKFIKAKSK
EDPFRLMGFGHRVYKNYDPRAAVLRDTCKEVLAELGQLKGNPTLEIAMELERIALNDQYF
IDRKLYPNVDFYSGIYQAMGIPSQMFTVLFALARTSGWISQWKEMSEDVEFKITRPRQL
YTGHVSRKV

>gene_398|GeneMark.hmm|447_aa|-|19881|21224 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MSRRKVEDSAEANTEVIEKLVAKTRENSEHDNPFNPQLGGDGGNGGKVSFNSEDAVSTP
LPPLTFATFNACTDTRVEEGSNNITHSEWRAEARMKPKVLETLDKLGTDIIAIQELRNCPK
AKPPFNSTGPVNDHLEHSGYTTSVTFYRDGFQSEGASRYILAFKESRFTHIETETKYFTQ
SPDKFTDDYFASTYTTLNGKQEHVEAVKDHNFVGMFFFERGIQVTRFLDKETRETLICIFNVH
YPIPKDLRIKASELLRDFQAQAEQELHPNIKIIIAGDFNSFPNWGGEEQMKPLIEAGFVDA
LTDATFPNETPADSTFYAFPYDLSKQKQLNAAIESWKEQGLSTAELALNIDNFYLEEGR
KSCEIIDHILVLQQEGSMQNTVVQVQPLFDNFTGYEPEAIGEYVFSHAHGGDSELGPAFA
SDHMPVSTTIVWDREVPALGDNSGGDF

>gene_399|GeneMark.hmm|141_aa|+|21722|22147 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MTQAQIPQILSQHLNLTSLERNVAADFDSLTPNIDISGDYNTAIDTSKWEVTVDLRVEM

SYKNGLALSILQYVATIDATDVSDADLDIFLYLEYPMLLLELRKVVADTTMAAGVHQV
MLDPWDLSRQFAAELEGKNG

>gene_400|GeneMark.hmm|345_aa|+|22153|23190 >NVVL0100007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MSSEKPGWVKHTWKTQRSFTLPSIMLKGAAGGNIALNVASVAKTYGRFDTATAINYLNE
QTSGMQPKKKRRIKWGKIAHDVIVPTRLVAAGFSALSLOAKKAEIGTNSAFARGGLRAIR
LLSGIAELALHAPELATTPIAHLARATAKAANKGRLCVARKLLSENTTQDEPEQRPNVEI
KGTSLASAAAIRRRPPRMQRRQVSFSESEMDYSDSDEDFSSDEDLSFDPDIQEEAPAIT
ERAYHPALDSNTSKVDLAETKAAPAQDSGATRRITSSDKETSSLDKEIVSPAITS
KKPALAEIKTILAQHVSNETKIKSPGITPFTRREHKGKTGTPDR

>gene_401|GeneMark.hmm|936_aa|+|23333|26143 >NVVL0100007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
VTKDLERTGFLFGSNSVFIEELYQKYLEDPASIDPSWIEFFSTQTEFTPLKTTSKIIKD
APKTQNKATSTSAPASALKEDSLRAKFMIMAYREHGHYLANLDPLNLETKKTREELKLT
EDFGFTKDSLANEIDVTGELSGVSACTVGEVLSILDRTYSGSLAAEFHVESHVSSGEKEWLY
EQLENANTHPSFSLEDKFKFLQDLVEVEGFQYLHTKFSGAKRFSIEGGDASIVCLDRVI
ELSAASGAEEAVLGLSHRGRSLTLTKVMGKPYCAVLSEFMGTSAFPTNLNISGDVVKYHMG
FSSDKVTRNGHKIHLSTLPNPSHLEAVNPVVAGKVRKQDCMGRDRSKVVGILVHGDAAF
CGQGIVAESLVMGLVPYEVGGIFHLVINNIQIFTANANDSRPGRYCTEVAKMVGAPILH
VNGDDIESVLLATKIACDYRTKFGRDVVIVCYRKYGHNEGDEPMYTGQMYNIIKTKQ
TPAAIYAEKLVSQLVDAEYYPGLKQTFKTLTLDSEFAQVEEYKPRQWLEGHWSGFERSN
DAKLTTGKQAEKLLCKSLCTIEDSFPLNKKLAKLFAKRVESVTNKNTLDWASAEQLAF
GTLKNNIPIRMTGQDVGRGTFSHRHAVLHSDIKSIYEPLNNSDDQAFIEIADSNLSE
YGVLFGEYGYSLVNPKHLVIWEGQFGDFCNGAQTFDQFISSAETKWLRLSGLVCLPHG
FEGQGPEHSSARLERFLQLCAEENMQVAYPTTPASIFHLLRRQVMRNRKPLMIMSPKSL
LRHKLAVSDIKDLDEGTSFEPVIDEIDADVSAKKVKKVIFCSGKVVYDLLEKRRASNIND
IAIVRLEQLYPFEQDLIVKIIKKYSNASTYVWCQEEPKNMGAWSYIRPYMEASLEQTGK
KMIRYVGREEAASPAVGYLHLHNKQQLVNLKALGI

>gene_402|GeneMark.hmm|424_aa|+|26133|27407 >NVVL0100007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
LEYSKERKIMSVEIIVPALGESVSEATIAKWYKPKGDGVKVDLLELETEKVTLEVNST
AAGIIESIEVGEDDTVEVGQVLGKIKAGAAPAESAGGTSAGASTQATTAAPAPAPQSGKS
VDPAKTMPPSVQKLV TENNLSPANIPATGKGGRINKGDVLAALNNPAAGAASSAGVASSA
GAGASTAPIADEKPVQVRMSRLRKTIAHRLKESQNTAAILSTFNEIDMSNVIALRKKHK
DAFQEKHGAKLGFMSFFVKAVISALKAVPSVNAEMEGDDIIYKHYYDIGVAVGTEQGLVV
PVVKGADKMSFSGIEQIVSLATRAREGKLAMSDLTGGTFSITNGGVYGSLLSTPIINPP
QTGIIGLHNMQRPIAVDGGKVEIRSMYIALSYDHRVIDGKDAVTFLIKVKDAIENPERL
LLDL

>gene_403|GeneMark.hmm|234_aa|+|27535|28239 >NVVL0100007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MSKSHIFLPIMAVVLFIILLWSFGSSYFNIDTLRENQLFLKNHVANNFLSTFAIYFLLY
CAIVGFSIPIATLMTLVGGFLFGQTIGTIAVVTAASLGCCIIFSGVRLVSKNITNKRLGK
WIKMQQGF AENAFLYMLTVRLIPIFPFVIVNLVAGILQIRFRDFFLGTLLGIIPSSFIY

VSIGVSLQELLARPDFSLYGLLEPRFFLALTALGILALLPVIYRKRKADASED

>gene_404|GeneMark.hmm|62_aa|-|28321|28509 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
LQVLSLSVKMALSLGVMFMKKNPKLTAIDIANYFLVLDREAGDVITHLKLRLQEGVRI
FC

>gene_405|GeneMark.hmm|463_aa|-|28691|30082 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MVQLIEFSYLISAICFIFALKALSSPRSARSGSIVGMIGMGVALIATFNLPFAQKIPLM
IAISSGGIVGAIARKIPMTEMPQLIAGFHSFVGLAAVLVAYTVLLSPAHFVIGVSGDLP
VGALIEMSLGAAGAITFSGSIIAFGKLGKLSRPIKFFAQYVCLLSLSIIALIYCF
TQSESLIFTLLVTVSLVGVLLIVPIGGADMPVVISMNSYSGWAAVIGFTLGNLLI
ITGALVGASGAILSHIMCHAMNRSFNIVIFGAFMKARESSGDSVEDDRIAKISSAEDAAF
LMQQADSVIIIPGYGMAVAQSQHAIKEMTDILRRSGVRVRFVHPVAGRMPGHMNVLLAE
ANIDYEDVLELDEINDFSSTDVALVIGANDITNPSAKTDKTSPIYGMPILDVEAAKTVL
FIKRSMAPGYAGVQNELFFRDNTLMLFGDAKKMVENIVKSMEA

>gene_406|GeneMark.hmm|132_aa|-|30094|30492 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MREQLPSAIKEAAEISQKAAELTEKLRDISLHAPEVTGHVVDPLVFAVTIFALSCFIGYY
VWVKVTPSLHTPLMSITNAISGIIIGALISASSAEFGFSSALGFIAAFFAAINIFGGFI
VTERMLEMFKKK

>gene_407|GeneMark.hmm|375_aa|-|30497|31624 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MKIAAIKERVKGENRVAITPDTAKLFTQKGYEVFVEQGIGDKANFSDLEYEKAGATVSAI
PLEILSDADIILKVQATELVDEFNEVAMAKAGALIIGLLSPYTNISKYLKKSLEKKLSTIA
MELVPRVTKAQNMVDLSSQSNLAGYRAVIEAAYCYDRAFPMMMTAAGTISPAKTLILGVG
VAGLQAIATAKRLGSIVSAYDVRAATKEQVESLGAKFVYPSSESGSDAEDKSGYAKEVGED
FAMIQKRFLSEIIAGFDIVISTAQIPGKRAPMLLTKDMVAKMKPGSVIVDMATSSGGNIE
SSSADKIVSKKGVKIIIGWTNMAAKIANDSSKLYAKNLYNLLNYAIKSGEFDKDDLVEEM
LIGKNGMIINKKFKV

>gene_408|GeneMark.hmm|229_aa|+|31721|32410 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MQNKTTKSHFALWQAIILMIILNIQTSSAKDIAGGNIVSGNISKKIKSYISNIGSIAVE
FKQTDQTGSKAFGMLIIDKPYKFRCNYYRPFPIVIVGNKNYVSVYDYEMGHLSRIKTRDN
IFNLLVDQIDFDSHFVLLAKEHGNNYIIRLKHNNLNKVSEISFNKSKHITGMKIFED
NNVITLTFGKTVQIKDAARKLFTMKDPDIFGKPERFNRAKLEKNFKKAS

>gene_409|GeneMark.hmm|522_aa|+|32600|34168 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MLKSDSTYIPFARKYRPSDFSELLGQEVLVKTLTYCIKNHRLAQAHLLTGIRGVGKTSSA
RIIAKTVNCTELKTSDEQITPCNKCKNCESFNNHNHPDIIIDAASRTGVDDIREIIESS
EYRPLIGKYKLFIIDEVHMLSASFNALLKIVEEPPPEHVIFIFATTEVQKIPLTVISRCQ
RYDLRRLTFDEINILIKRIAKQEKIKIDDDALKIIAISEGSARDATSMQDQAASYVLNI

GDSEIITAENISKMLGLLQSTMTVKLTQLIIANDPASAIALLEEYSNASNLEYFVQTMS
DFMAELSKSVITTYHNPLYQSYSKEIADILVGTSLRSLWQIFSKGTQEIKLSHNEL
ITAEMLIKAIYACNLPSEAIMDASKASGHVPASSKTSPALPDIKQNEEENIFNFLKYC
SKQKEMEYIYWLLNDMELKNFSDGKMEIAAREANAFSGKIESLLKDWSDSWDKIAFSKQS
DIVSLKDRMMEKVKNAGDYQVIKTHFPNANISDIILRSYEAT

>gene_410|GeneMark.hmm|105_aa|+|34244|34561 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MDINQLMKQAQEMQKMQSMQEDMAAQEFEGKSGGLVTITMTGNGEMKGVSIDPTLLKT
DEKEILEDLIVAAFNEAKTKADEKSKDSMSGAFDGLGNLPSGLKF

>gene_411|GeneMark.hmm|199_aa|+|34585|35184 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MQKITGPDQLIYLFSLKPLGLGARSARRIVLHLLQDKDLRLSGLIDGLQDAAERMKNCKIC
GNIDYTELCSICSETRDGSIIAVVETVAELWAVEVERSEIFKGRYHVLGSLSGSTIKNPN
ILKLPELLDRCARNNVRELILATNSTLDGQTTSYFIAEYFKDSNIDISRLASGIPVGGEL
DYLDEGTLSAALESRSKSF

>gene_412|GeneMark.hmm|147_aa|+|35519|35962 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
MLKNIVIALFAAVLLSGCSSSTGRYGETQKHITFEKVVGDRVHFALNSSSLSPMAKKT
LMRQAAWLKNHTAFKIRVEGHCDERGTTEINIALGESRADTVKRFLVSKGVSANSIDTIS
YGKERPAVIGNNESAWKMNRRSVTSIR

>gene_413|GeneMark.hmm|44_aa|-|36042|36176 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
LNRHALGATDFESVVYTNSTTEANIQEKYSGRIVQTYPASQEQ

>gene_414|GeneMark.hmm|872_aa|-|36356|38974 >NVVL01000007.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2565, whole genome shotgun sequence
PEKAVVPEQPTPAEPSSDVSPLVGDDASSDPSVGGQPNMQHDESKHDDIVDSKNDIVDV
TKPSTSEFSETPQPRLRPAQPSVASEPEEGTEISDLPQPWEEEGALAEKSNPQDGSN
DDAEVEAEPPIPGFSPDGKTPGGEEIAILPEEVREGAALDTGGAIPQPPEVFDKEILD
GARELSLMPKNSPEREPAVAEEEEAEIDVSSASTQDIHTRALKYFDNDHAIKRRIR
NLETRARVLKYLDISDSWEELEVYLDEAIDDLLEEIGDYLEELDNPSERSQTILDKLEKFK
GDLEATYEAFFREEHSSLNPNIEFSDDELKRLNHLKTKHLSQNEMDALTSIAIEHVTEAQSAY
SDLEQYIQLNNEEHQKSADEISQALQLTEQESSLHMLATEDKIELTGEALKRTTQEAQVEV
FEIMQLAMDRFNAVMERDESNIATERLALRKQKQFPLHQKAGAESRERAIKHEMMRE
LEAAKAAQAPRETGSEARKQARKNAALGNEEWRGQREEHAELEKRIAREPREASREI
GKVNESPNLSSEALKQRSEAHAEVRAKIDRRRAQELDGETQERNQIEEFLKMQSGLQHLE
TKKLIIEGKANIGTYQQEDEAYELAARNREEAIEQKSPPIPEPLNFPESPPPPDRSAPLNI
NHDRFASQMEELKQRRDVARGLDEARADLSELSSPQGEGAREIPEDLHNNYEQLDELIT
KSEQLSIPNKYDAYTMYGQNVPKDRLEEIREATVAQIDQRMTAIEDIQRDLDNAQNAEFQ
EEHTAPKIQLSAAAPEETKSPAFRESGALSSSEAPQALAHSANADHTEKVIGRVTVKVRRA
SLEAVRHLEPVTVASPSRGRGSGAEQGAQQSK

>gene_415|GeneMark.hmm|503_aa|-|83|1594 >NVVL0100008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MGVVERRGGTLLSDYVRSDEKVTIQCENNHEFEMTPSDVKRGRGRWCPKCSGCCPIQAE
ERLKTVILERGGTLLSNYVKSLEKVTIQCENDHQFKMTPSSVSKQWCPKCSGQCPIQAE
ERLKAVILERGGILLSDYVKDNEKVTIQCENGHEFEMIPNSVKSGHWCPKCSGCCPIQAE
ERLKAVILERGGTVLSNYVKSLEKVTIQCENGHEFRITPSSVKSGRWCPKCSGKCPQAE
ERLKTVILERGGTLLSNYVKDNEKVTIQCENNHKFDMPNSVKSGCWCPKCSGHCPQAE
EKLKTVILERGGTLLSDYVKGKEKVTIQCENGHEFMMPPSDVKSGCWCPICNESKGERKC
RVFLEKMNIEYVREATCKYLGILEMSRRRYDFYVPIYKLLIEYDGVQHFEDIAFFDNVPL
KERQRIDERKTHVALEYGYNILRIDYTNLSTRQIERTLELTFEYINKGMVKNKPSVFLTDI
FKYSYLNFKECMWIIPETVDNEI

>gene_416|GeneMark.hmm|485_aa|-|1728|3185 >NVVL0100008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MEFVQSKYHNLSVNVAEGLGASSDYVVTNDVLTILCKNGHEFEMTPSNVKSGHWCPKCL
ATRAEEKLKAVILERGGILLSDYVRNYDRVTIQCENNHEFRMTPNSVKSGRWCPKCSGWC
PIQAEERLKAVILERGGILLSDYVKNKEKVTIQCENGHKIEMTPNNVRCGQWCPKCSGWC
REYPNNCPIQAEKRLKTVILERGGTLLSDCIRNNDMVTIQCEKGHEFEMTPSSVKGRCYWC
PKCSGKCPQAEERLKTVILERGGILLSDYVKNKEKVTIQCENNHKFEATPSNVKSGYWC
PKCSATRAEEKLKAVILERGGILLSNYVSIHKKLTIQCENGHKFVMTPTSTVESGCWCYGC
LGDSRTQNEEKLEAVILERGGTLLSDYFRIHDMVTIQCKNGHKFKMTPHRVKCGYWCPKC
SDNCYTQSEKFKAMILERGGTLLSDHVGIHRNVNIQCENGHMFKMHPYGVKSGRWCSCEC
QNPQKQ

>gene_417|GeneMark.hmm|206_aa|-|3529|4149 >NVVL0100008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MSGYVLYIDGMVGSCKTSLCKRIKAFLVSEESQCKLFSRPINTKLLNLFISNPKNYAFAL
ELSCLTNNRNVRENALSFASEGIAIVDRSVYGDIACATLQYSGNISTNEWAICVDTFE
GIKEIEVPNEIEELYVLTNTTDDALNNIYNRGIDSERKYNAVYLERFGPIYFEVTKNIK
VHKTGEIPMNFEEVRRLLRSFGIPSN

>gene_418|GeneMark.hmm|260_aa|+|4217|4999 >NVVL0100008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MFRGNHKKSLLVGLNYEGTDCELGGCENDVLNIKSMILDFGYKNGDIKVLMDKDIKIYN
QKTTECKKENTIIRELKYMFKGCKAGDSFYFHYSGHGTSVPDNDGDEEDGMDEAIVLVIE
NKDYIIRDDINEVLMPLKGVSVLVFDCCMSGTICDLQYQYDSNTKTTHLVNDKVIKA
NVVMLSGCKDSQTSSDVYLPLRDDYFGALTTAFTEIVRLDKDISWEFLVEMLRNLLLERG
HSQIPQLSSSNGETFNKIMT

>gene_419|GeneMark.hmm|374_aa|+|5045|6169 >NVVL0100008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MSEQLDDLIFLTKKIRVNHKSLTKVKNTTMLLSLKDRLDMVGLSELKESISLQTTMLI
ELMGSDDELGMLNVILYGGPGVGKTKVAIILSRIWLSLGYLDDNGTTKEMIDTSGKYSQK
LDTKSFVIPLLLGGYIWAMCKYAYGIVGLLILPIIFLLVLLAMVGYSYSSSFIGENKIL
DDQIVIVSRDFVGDYVGGTAGKTRALLNKNLKVIFIDEAYSLINGPMDSEFGKEALTTL
NLHMSMHPRRCVIFAGYEKELKNGVLKEQPGLSRRCMWNFRCKGYNGEELSEIFFRQMD
KDGWIVTDKYDVIGLIENNIKLFSSYGGDTEKLGFYSKLDASRNSFHSDKSSNKTLNINN

IKIGLKYLNRNNKMM

>gene_420|GeneMark.hmm|244_aa|+|6262|6996 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MSKIVVSDPEKTS DGVS YEIRLPQCSTKPTS AVKLTRNLRLLQCKIVPIRTLKVVVRPKYT
NEYKSSRTSWRLYKVSLSEGKGNVNISAKFQEGIEPTVRLRTMTATPKASRIEEDGNEY
SNVDIETLTPKNNFFGNSAIVLTIETPFTFPKGNVSLKNRKTFFGGFDSHGKYKVTPRGKNN
RTTKVPVDIARVERSIGNANENNDFYSTKEIREIAEDASIKVGAQATKGHIIKLILENFN
TRTS

>gene_421|GeneMark.hmm|1313_aa|+|6993|10934 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MSSKVTRIKEPSKMSLSDRIKRYEVAKMEYGSYDERTGKTLPVRYVSNFEGVFMRFGDII
LGQYRKGYNLKHAIALAFEYNKYMDLNDVYIQCYSFIEAKLSSSDALKYINEYLVGRKE
VQMTKEDMERKIDIWDDSNLDIDGFVSRDYSAYTVIGTIMDSVKFDTSDITYTDVFTTYK
INGKVLSSYYPTSANGPRIFDNMYVSEEIPYIRYKSNKDHKHIYSMDMGIDLRLIGNKNL
STDKIFFMLLLGGPKSNSNSYAKVTIDLVSSTLELNISKSGLQSEEILKRLEKYLTCCKLS
KLSSGRAKGVFMYGDIYIREIFLDIIMTDLGILFMNEVNMSSYPDRVRLNMFYRELDK
KEPIVVEDNYIRNLSSVSFSITQMVSIQDDKVESDGSVSRKLPGRHYIKVDISMAATP
EMAEFEKELMSYVFEYYKSQYETLFKLYSSIVPDINEEYILTRRLATRIQRLKSIAPEIF
IKGYARMCQGGNRQPELLNKTLPYVYDVARKAMKLHNSNQYDPREDEDLVRTFDYISQR
YNGLKLEELEDPEVVFSENVNRKVKSDNINKSIGLYTGGRKLSKFPKESIKGRKNYRFFC
PDAKYKHPTILNNTLENSDVYDKLPCCALSDQSLKTSNSLYREYYEGIKVKKSKKNPKPI
SSLKTLDVGRFGLVKEMRDVLKSVSNKYNYFRYGVVRSKNSFVHLLPLYLSDDDNYSE
ASFTEKEKMOVDFRLALAKSVNHSVYKQELYDRSGKEIKDMI EDTNSYFDPDLFYRGIEE
FLGLNVVYFEYDTQKKEDERSFLSSPRFAKYHSRLFRDRKCIILKHWGSDRRVFPQC
ELVNGNKTGSVYVDFREFNRNMYKFLFNVNSVMWGVENGRKVVRKNWYSRVNYLDIAK
GAMGQVIDMYGKCRAIIMKTRGGNITMVTPTQPHDLIEYKNIDLGSITSVRDVFQRPN
SVDIDGDNIVGLWYSCMDVPNAIYFPVVRTQITSEYRGYEIGPSSPINMRVENTTQGTGN
MNIKLGTSIARVNTIRKTIKIFLQLVTWIYLIYLRNGNTLENLIKRLVVLDTKRRHMDS
YDLYNGDKLPLTLPDVVSIKSAYEYIDNNSRGFVKGKGTNKYTFLMYSKKMREYVIYFLNS
QIKKSMGLLVNIPTIIGVYVSSSEDFKKQKNSRLFTNMFQMKMWSRAQSRRKYKIIYTKL
DYEKYDGTKEVIYMNHNGDIYTIQNINENMFGSNIGSAMSANTWKFRGINTGQATPITN
LKHPhVLYEISKSGILEIVEDNSESSDVPLELLRYRYNNTKSYAAMLVMSSG

>gene_422|GeneMark.hmm|1082_aa|+|10990|14238 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MFNDKKSNI VSKSRNVEVEARFNEYSMGRGVS VHTFQRVLDILGPNYEETNTIDYIQNI
NDGVGSYGGIRKTTQDGKKDVWITKSGTSVFKRNDY NVKLSMSTEIPTEPEEFTHNISR
EKKRFSIDL VHSKVDMTIYTTNDKGSRS GPEYEIELELSD FDRFDEF GTYCFYVLSLIQ
DTPYVYTKKEYNDVILGLNNSLGSGITNAGNRKNIIDSRMLTKPRNLHLSDMVYGGLVGN
NITRYNVLYKADGKRKLFVTHGNSVWLLMYP SFVSKIGNFDGTVPNIGGFILDGELIESG
NDDDNRFLIFDVLSVPEGIPSTKIQLPFSHRMHNMGENIEMLNKLDLTTLRMKYFKQ
ITDVSSFYKIMNEMESERGNLDYETDGYVFP EIIHRSVSKFSSVNQYLPTRKTHNRNLK
KTADLCKYKPPNMITIDFAVYRNSDGLIELKVM DGDISTMFEPKYPLAFDGLTMVDHDNE
ITANISDGTIVEYKWDTRMLVPVRIRSDKVRANS KAIAYGDNWNMMIIPKLSTMLGKDI
TLMSKYHNSIKSKIYNKSSKSFKLMPTLLDIGSGKGGD GKWNGKFAKVI AVEPNKEYII

EFSSRCHSIMGFVPQVIENIRDIKKIDSSKRLILINAKGENHELITKVVKKYTGGKVDVI
SSMMSLSFFWENSNIPTNLMKTIRNNLSDSGEFITTTIDGDKILETFKPPIRVPTDEISN
MLKLNDENITMEFNGNYINVDYKGTIVSKQKEWLVLHLSLMLLELKRYKITDVSDMNERF
VSPGANSIIKLYTSGKFVPMKATKINFKGGKIVKRVVRKNVGVGMFVPPKKTNEKAEIKT
KIIETSEIPIIIYRIKEGSELYPMFTTLNKTGVGHGIDSTSEVVLTDGTDVIKVTRI
SSNRTNSFFDCILKMAYHEYASNSDYIGRMNALDNIKRDVISILGSPSKGGTQYDFVLDG
ILPFYAQKEKEGNIYVDRLGNIISYDLAKMQKAMTESTTSLDLYETVAGFLLVDLYVLD
MNKEIDLLYFPYSQVKEKSVVIMSNSDGRCEGIGIKNNLIQSTFSKESDFIRMLRETS
DF

>gene_423|GeneMark.hmm|205_aa|+|14287|14904 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MLSLSKEIVKLPWTRSSVYRLKTIGDGSFFHALSLSYLPYISNISNGTKFNRRQFVKD
LRLDLSNRLASKVDKFDKNSKTFYEYLSRGLHEMSLVLDKYKLYNMQEELKSNSPVDNT
YNEFISEILDKDIYLIDIAKMDVYITGNDMDLLYKGRDSIVIGIIGNHYELIGTMNNLGI
MSTLFSSSENKFIIDIKNRMKIILGV

>gene_424|GeneMark.hmm|269_aa|+|15005|15814 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MSGGDESENLSFSVTFDFGYSFRNMVEYIRSGNKVGYFIFSKTLITYIEQDNTGIVLNKI
TIKTDELVEYVCNSETPIYVGLNFDELRSFTKPIKKKDSIKLYKIKNKPTVYIEVLSGSN
SHRTENVASIRISNIEKNVYVTLPESTNSKASCVISSTNFSLMCSGMSTIKSGFVEITNY
SKGMKFKACVGTGLSERLTFGIINEEDRVSESDLQISMLTIKYLSKLPTLCNTGTMKLY
TNLVGCLLIRSHIGTFGEIDVYIKLKEKK

>gene_425|GeneMark.hmm|258_aa|+|15844|16620 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MDTERKLTKYTVFCETEKSWSVSTGYLEEVPTVCPNNNLHKIETVTILDVDTSLTKVVED
TSGTQGYFKISGFSFDVDAGVGVITDHHIIFNYPIKVYNLMVLPKSNIGDLSVSIKDV
HVGLLVGDAGKGVISADSVGDSVIGVDDITLGVVVLGFLVKGDPKTKENLGECISIDKD
NKTITVSNNTSATYSTGDKILITIVKINNVEISTNDVLVFGAGKLGGMMLVPTKTTMTVQY
TNTSTEAKRVVGFHEHDY

>gene_426|GeneMark.hmm|320_aa|+|16837|17799 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MKNFDEMVAITITAIIVISSDVNIGNLFPVIPIKRDVSKAKGKKIIIIGTDYGDIVSC
RHDGTERGISKDSGFFRNASLYISCGTKYVSVKLTSSKSIQMCGLKSTEMMKQISEIVVN
LINGVQSNISAITDDKDMGKRILDWFTENVSVANGKLRICKCPKFIENCAYEFLKSLMSD
YVTVADYILHVKWVTTMENVVNEKLLIVSMKTSMVNYNYGLGFKIDRIRVRDLLRANPPF
GARYINSIDHYVSVTPYPYVIEDGKSENIRKKSERNHTFLIYASGNTTQSGPHALVKEA
YNLFKKIITENEESIICAGV

>gene_427|GeneMark.hmm|452_aa|+|18029|19387 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MGNCKSYPEPDTSNICTKDSIGSGDTTDHTLKHFCAPINGVLGGEDIRREYCGRIGSGEW
EYQEGGSCNYNDCNKYQDVDSGCCSGCCGISGRKVLCKRKSYLEGDPDLSCLLDYAFDEN
DSKCFNEGKTCFPENRDITSSQCDELVDYCTGVLDLDEDDTSWIDRWGNGSKCIYSLNRN

LFSSGVNVNITSGGYISPVFFNSVSGFESSKLIKTFKKYASQGFVGTLPGLSGYNE
FQNILFKICESSPGICQTGLNNLCVTKTTEDLTRNVELIPWCGCYMPNGEYQKYIDTFQI
NKECTPICARTGNIKLVDGDGITPVECSNDICVIDNVSIEISNSEVGDISFSQMC GGCSG
SNVNHKEGERNLGSATCSCVISDLIDINASNSSIGGINLSQYCGKKT KCYSDDVEIDCDTK
KVKKPNKIYGIVVSVIVLVIITILILISIIK

>gene_428|GeneMark.hmm|156_aa|-|19449|19919 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MGIELFPYETVAKMESVNFVLDKGAFLPVRGSKYSAGLDIFSNDIQVIPPKSRIVVKTG
VKVAYIPKNHYIRIAPRSGLSVKEWLDVGAGVDEDEYRGYIGVVIHNNHKPTAFTVKPNMR
ISQLVITPVSYASSISVDEATETERGESGFGSTGIF

>gene_429|GeneMark.hmm|204_aa|+|20149|20763 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MLLNKIIKAGKGLLFFDDYVEVGGNIKVRCHLGHVFKTSTHWWSTGNWCPHCEVSDMEWKT
LYIIKIKGGFLINKYGDNNLMLYIRCSNNHSFDISVDGVNSGFWCTICAHNLYMSDNVIS
RVRAEICRRNGIFLHLDNMNRSDVVFICEEGHKFKINMERLEMGSWCNVP HKSKNITKVN
PNCRHATTKRYLWRPQHPQKDITL

>gene_430|GeneMark.hmm|488_aa|+|20830|22296 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MFGNLSLGTIYFNQRTLKFHSKKNMSLGKVI GSGAYGIVSEIKINGKMYAVKRNTVSVYS
DGISCIREYDMLLRIGDHPNINKMVYHTTSKISDEGLGEELREGNIHFIFDKCQYDILED
DSLIDNEDEIRKVIKSMLSALKYLHDNGIVHRDIKPSNILKSYTGEYELCDFGMSLYLTK
QTEMSNSVTTILYRAPEMFLSQKRYSFNSDIWSVGCLMYELLTGERLIK RIPNGVKDFAQ
VVCKIIPNAFNYLKGFVDIEMYDSETFECKLNNDYKTVDLLTKMLEVDPSKRIDASEAL
NHKYFDEKDELIDIAFCSNKIEQNIESHKYVGISKTIKLMVKNKTYKPHSNIRSVFHCL
DIYQRYMHWRKLNKSLKGVSLCLYTCMYISFKYFSPIEFQYTISDIFIVPKTMCENDI
IDIESEIVTKALTGKLYNKTPLECVNDVKSHEDTILTEDEQILLFNLVFDNVGEMSSMEI
AEKFLDVL

>gene_431|GeneMark.hmm|325_aa|+|22331|23308 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MLKLLLVGDPHFKKTNLDDMDILSFDVIKIEEYKPD AVVIMGDLH THESINSIVLCKC
IEFLKQIALNVKLYVIIGNHDRINNSDFMSDIHPFTAVDMWENAKVISKTEKVTLVVRDK
EYKILMVYPVYVGRFAEINTVDNPLDVTCLCHQEFFGCKMGGIISAVGDKWNSNPLV
ISGHIHDYQRLGGNIIYVGSPIQHSFGSSNCGKISLFEFSDKVKETRLDINVKKRKTIYV
DCVGMKSLKNITNSKYHIRIVIKDTKANIDSMMRTTKLPNVKITVKVDEVFLSANGGNF
EEILIKEMGDNLPEISWYNYLSKGN

>gene_432|GeneMark.hmm|1312_aa|+|23345|27283 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MEGISPKDLILPPPYALSPSSLAKEQFEKVINEKLRSSVPGDMAVTTDFEKVRNERHRDL
MSSVVYEGFAQDSIESYNNWIGGSLSKQITNRSILLPNGDYIRFKDVS IYPPTMTIKTVG
PDGQETSSEKIMYPSTAREMSKTYLSVYARLEQIDSHGNVVGILHKDQDKLIPLCS IPL
MLGSRYSLSYGMSSDQKLRVFECPHDPLGYFIINGGEKLLLLRDQLRVAKPLVYIDTNRN
KIVICRITSWTLSGTTVVDIHKNSKHLYEINLYFLGNKRGVTGTICVMQIMRILWEMSG

GSNPDAFSFIEDVVKFTKSKWRDTIRRELYVSAVYTN SQPDDIATVMKSKGKRVTQENL
KEFNEIVNSDIMKGRKCLKHAQTSKLEREEQFEDTKRGIYNDL FVHIDEYVESDEYSTFDE
LNAIKIRRGSLKYYLLCCMVARLAEYKVCLRPLDDRDDWENKQITLPGKTLKRFVLVW
RKSILAKMRKRAKDMHVDVNNIKRVIKHGNVTNKLKISFTANEWTHTKGNDYGKESVSVE
LDRTSHMSVHSQHGKINTPTNRRAKQKAIRQIIESQIGFVGLAETPEGQQCGLVKQKAIT
CMVSQDRNPEIVRNFLVTKQLLSNVYDVTNENMGPCMHGDNFIGWCNVGETR KELLEAKR
NGTLKHDT SITIDGVVLYVYSNAGRPT RPLL VVGKNGKTVIENKNKWGESFRELTRNGSI
EYVDPSEQNKFILADTLGTLVSKSERDSTLANLQRDLEKIRSGNPLYRNVKKIDFNDNPY
EEKVNLTEL RILKEINIIKEYEIRSSNLKFDYCELPNALLGVNASLIPLNHDPAARNS
YQCHMGKQSLGIFHSNQDMRFDTSSRALISPRGGLFNTQSHNWWGLDDMPSGDMVICAIM
TQNGENQEDGISFSKAAIEAGLFRYTINKKHESVLKSDTSKGITEVFGVPVKRDGHPEGA
YDFLDENGI AKVGSMLKRGHCIIGKTRIRQMPDGTVM EKDASVYVERGSEGIVDMVISPT
PLYGGGKVIKVNIRSTRVPIVGDKFASRHAQKGVISSMVNKEDLPFTSDGITPDVIINPH
AIPGRMTIGKII EITSKVTATTGEKFDATAFRNFDADEIANELRKN GYSGSGKEIMYNG
ITGEPFEVMIFIGPCLYQSLKH FVADKISARGKGPLDKSTRQPIGGRSRGGGCRV GEMER
DAFIAHGAANSLHERISSDLFTGVFCKYCGSFATSRVPLDMYGESGSTS KSVNICPRC
SQSDGIVACNISSGFYLLARTLSAAAALDIVFDLRPETYSEEISRVRNIGILK

>gene_433|GeneMark.hmm|211_aa|-|27301|27936 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MNFSKEEILVVTETTKTLVVPKGIKKLICSDIGLET LILNEGIVYVDCSCNRLTELIVPD
SVITLSCYRNLLTKLIATNNVTSLSCSNLLTELIVPNSVTTLHCYRNKITKLIIPSSVK
YVICLCNPLEDLSGYNELIVPKVVS LYTMCHNAITSQDNIP SFFDLVDKVTCCSCKNKVV
EDMSYIQFKGCNAGYVRKIIKCRKCYLDMGF

>gene_434|GeneMark.hmm|300_aa|-|28080|28982 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MNFSKEETLVVTKTTKTLIVPKGIKKLVCS DIGLET LILNEEVVYVDCSHNKLT VLTVPN
SVTYLKCCNNKLT VLVIPDGVTYLD CSCNRLTDLIVPDSVIHLKCYYNQLTILIVPDRVT
SLDCYGNQLTELIVPNSVTNLDCSCNRLAKLILPDCVTS LDCSCNKLTKLTPNSVTYLI
CHNNQLAKLILPNAVVNLDCSYNELIELIVPGSVTFLDCFGN LLEDLSKYNKLIKPKVVS
LYDMCHVMVNENNIPRCFSKVYKVTCDGCGDKVVKDSAYTLCEGNREGYIRKTIKCKKCF

>gene_435|GeneMark.hmm|414_aa|-|29208|30452 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MHFSKEEILVVTAITKTLIVPKGIKKLV CNRIRLET LILNEEVEYVSCSHNELTELIVPN
GVTYLNCSVNKLT KLIVPNGATDLNCSGNKLT VLIIPNSVTRLD CSYNKLTTELIVPDGVT
HLDCYYNELTILIPNSVTRLD CYGNRLTVLIIPNSVTRLD CHGNKLT KLIVPDSVTYLD
CSGNKLTTELIVPNGVSHLDCSGNKLTTELIVPDGVT HLDCYYNELTRLTVPICVTHLDCY G
NGLTVLIVHNSVTHLNCHGNKLT KLIVPDSVTFLNCSYNELTKLIVPNSVIYLN CYRNHL
TKLIVPNSTTFLDCHGNKLT VLVTVSVNLVDLDCSSN LLEDLSKYNELIKPKVVS LYAMCC
EIVNEKNIPRCFSKVYKVT CDECKNKVINDSAYISCKGYVGGYIIKTIKCKKCF

>gene_436|GeneMark.hmm|167_aa|-|30614|31117 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MNFSKEEILVVT EATKTLVVPKGIKKVVCSEIGLET LILNEEVEYVDCSYNKITKLLVTN
NVARLYCHDNKLT ELTIPH SVARLYCHDNLFEDLSKYSEVIKPKVVS LYAMCHEIVKEKN

VPECFDGVNKVTCDECEDKVIKDLVYVSYRGHRDGYIRKTIQCKKCF

>gene_437|GeneMark.hmm|330_aa|-|31261|32253 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MGIKNFTSIFKYSSNSKTIKTFDFHSDTNFAIDAHNVIYAKFKTSVKKYIDIICLDDCID
IGVIIDMTFESMMTYVKPMMAKNITPIFIFDGVPECKRKTNDKRKAERVKYELLAKEAK
SNIDFTDIVTIENYKKYIIRSIYPDRDVMKIIMDKLQSVKIPTIQAKGAEKLCSSLCRE
GICSAVISNDSDSLVSFAHTMIKSISRKGLECISLSDILTDLITFDQFVDICIMSGCDY
NSNIPGIGICKSIKLIKEYKSIDNLPKLGNIILDKSILNYVECREQFGYTESNLLISDD
CTLFDCGCENGIQQTNKLNIPFIITKLVIV

>gene_438|GeneMark.hmm|270_aa|+|32279|33091 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MYNHNNSKSGKCQEVRYVDGGIMKTKRGLCKGNIKGVKEVPIRKVKTLDNCVFPVKDICE
IVLEEELLDIFVKHGISEEVITLLAHGLGEYATGERLSKLEHISKMYDILKTKNKYICNN
CNGGYTFEYEVHSDIDDNVDKHGYQLDSQEDLQYIKSDVEMDIVIPYEINTNDEIVSFDV
SINLFKCPYIKSDGLNIGYPNVQSDEKNKFIKGFSEKSSGNVTAYLEDDFLVITSFDV
TLGTYSPODITLTFDPQDNMTLDIPLQVDA

>gene_439|GeneMark.hmm|351_aa|-|33160|34215 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MDKWEPTVLVLGSGGMKGFMEIGALVYMSKIGKLNKIDTYVGCISGAVICLLRICDYDYT
EIMKIAYNVDSKFININLNTIVENMGLINSNDVSKLETLVESQYGMVPTLEQLYITTG
KILTIVTYNMTKSRTEFISRDNMPDISCVDAMLSNIPFIFQTIKINGDIYVDGGIGNP
YPVDIYDNNKTKILGMYIAEPKPKETTTGFILNLIHCQSREITSRIKGSSEKCKHIKLI
SPTTDTTGLSFTHEIRTDLIMIGWNAAIKATRGEVCEVEMEDLMSSIIDNSGEEYYTDPG
DSKNTNKKIISDSQSKISVKISNLSKLVLENRKCCLDLLNSDPQDNTCQRYI

>gene_440|GeneMark.hmm|220_aa|-|34273|34935 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MEEHDALDQVKSDEYDYDSEDETSTFDENDNAFSSSDVSEEEFQEYHPTTTKSESSRRLSL
EAEEMLEGTDIDVKVEYVELEDDTLVETKEKEHRKWAPVIKTPHSNEKIKYIGLGES
SSENKHSSVDVQETTKRGIKSPITKIKELPQNLISKNLGETDKHQNLRIDLASHIYNTNN
ISPETAMDISKCVISKVESGTIYSDGIERIIDKINKSMVL

>gene_441|GeneMark.hmm|197_aa|+|34924|35517 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MFFHLYKMENKLDIISVVLRIIVLFLKVMESLQKPGVILAGSAVLVTVASTVYFGRAVGVL
NSSVRDVEAQMEAFNKELESIKGFTIPKSIIEGFRNFKNVLSEINSSVELLSEKLDNNM
HSISEMQDYMREDGKTIKEFVKLPRQTNRRARFEYRPDNRMYMERGGRPEYKRKYKNVGAD
EYDVENAMERIRKSQGI

>gene_442|GeneMark.hmm|280_aa|-|35576|36418 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MEHKNKVLENFNSSNVVIGTHEKKTFFKGDGKEDGDYITIPISYKDGNTPTKGINLEL
PLVTCYVKKGKFGYQMSIKLDRTGKVYNVIKALISINISVGRMANTKRGAFSLKEEINLN
EYKCNFKDHIYRPRDDNTYEKLEVDPTLYLPVKSWSVFAIPVEQNGKIVSRDIKKENLE

NIKLEGHPLIKVSMYMGGGKFSLQLYLSCIIITKVTKVSEVELMSDILGNVSGDAMVEL
GNNLAELGIPLMTDNPLNTEEDEKEEEGGDDIKAIEYKDL

>gene_443|GeneMark.hmm|412_aa|-|36468|37706 >NVVL01000008.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_2665, whole genome shotgun sequence
MNSAVDNTWLFKVKQQSGEDTKVIPGSNLVLFDTDGNMSCVDGEDSVIISGRSVIGNYTND
INIKYIHTKVLSHFDNFSTNKLTSELEDLKAMTLTNMGIFVKVKERISAIEEEMATLSNF
KKEEYLKSLRILNEYDLVGPFIKHINFNDSEVEIDPMFGVRHNIIYKYLDLVKPYIFVD
VVRNVKVSNNCKSCKNCLDNLIPQDGLTLCNVCIANIPYVTKTQTCSYNTVPSNHNKYD
KDNFEKAFNRYQKQVDILPSNIVSVLDEYFKSVNIMIGDDVKKMSKAKIKKETSRTMMF
NALKCIGLSSHYEDINLICHYWNWILPDVSDLEDTIMKDYDDSQEVFMSIKGEDRRSCL
NVQYRLFRHLQIRGHECNHEDFKTITTGETFRYHQIMWEAICKELGWVYMDL

>gene_444|GeneMark.hmm|77_aa|+|3|236 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
LYIYNSMYFRASLLFYLGVLVFSGSSSWLVFGFSVTSNLGFFKFSRFPKSKFPLIFSLQ
AFFWLCAVFSTSLGHY

>gene_445|GeneMark.hmm|1598_aa|+|606|5402 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MERKDKNKRSSLAKLLVTASAVAMIAGSAGSAMAVALNVNADVPDLAVASNIGLSAPFAN
GDDLTLGAFNITTANNVVIQAINVGLFTGQFTFTVGTGHTVGLTAGTMDMNVILQGVGSV
FNIGVRDVTENVTVNGGAFTARHLTGTGAGNGDLTVTAGTAAVQNVAGFVNVSGGVVTS
GTVGGTSLVTGDGQFDGAAGAASDVAGIVTINTTSAAMNTIKDAALAVNLEAGKLTMRHA
AADVTVTGGELTMGNAATNVIVGGGKIIDFGVITGNLFTADAEVTTAAAAGSKVTGNVT
TATDGGQGTIKFTANGLEVAGVIGADGAALKLVEVSGTQQDLTQAAAVTHYAKEFNVTAV
GDNIRVADGASLNGNVTGLGFVDFRAGSTTGNLGTNAAALTKVVAGSNAVGINIGAGD
HFVTAFESKNGASGFTFADGANVTGKIDNTQGNANGAIIFEGKSTVTGTIGGAGGVVAF
ATVSVNGDAGSVVEVNDVVSATAITIKAGTFELKDTANARIITAANGITFAANGKLIKITA
PQAVVNTHGVAADIITGAVNQGNIEVTGSAIFGDIGVVAGNGLASLEATKGTIELVAGVG
GAGAGVHVKDVKLNEVVLLKLNAAATYKLGVSVELEADNKSTLEVNDNSTIIAIDTAAGLS
FGEEGKVLKALNFSANAITLTLGNGVSIYAKDLTGTVVGNINTATITTTQGNNTLSFVNDN
ANRLAAINVNGNAGEVTRLLGATFVDGNVLLGANTTLEIDSSITDVAANGGGIIGNAGS
NGTVRFINEKGDKIEVTGAVGAGANTVEGIEFAGGDVKFNSKIEVAANSFTTAGADGE
TTIEFVAATDVDNNTFTVADTADSAAKRTVILAKAVNTFGQEIASKDKAITFQMSNNVN
VIVVTADAAGARFTSSDGKDLNLNKADVTIKSVGTGNTINGLFTENATVSEATIAKT
TTVVAGKVANFNESLVGETAALGDGSIANFADGFILDSKVDGAADNDGILNFAGKASINK
NIGTAHRVNLINFSDDNKEVRLATDIITSRVVNIRKGTVALDQNVSMNGTINAVESTLDL
GEHSLTIENGEALTFTGENTLKIKVIEVKDITVSGSIRGTGEVVLADANTKLHFVPVDES
KSRPSNGAERKFTLIENVQLANFDLKDITTAIPGALVYGKELDGTTLYGSQKDNAKGY
LQDLVKDNSSVGIPEGMLARIEKHTAAPEGTAGYDVSGVMLDIAEHFVSDSAAAAARVTE
LDNRQNTTAAATAEVIQGASSAATSSVAGRVSSIARAPGASVQRNVAYANGEGVAAGDDH
ARFGAWFSPFYNQTTQKHVKGSAGYKSKITGLSLGFDKANDDLSVGVALTGSTATVNHK
DKKSGDKTTVKSLMFSVYGMQQJTDNWTYTTGVATFGTNSVKNSEKRVISATSYDTARGKF
TSMSFSGEMMFGYNHVIDDITPTFGLRYGRVNSTGYKETGSSQNLEVSMKATNSFEAI
AGVKVAAGSYEMNGAMLMPEIHASINHDFAAKTKKADAKLGGSGELGYAGKQAIKTTYEV

GFGVNAEYGMMEYGFYDAQFAKKRIGHQGTMKVRVNF

>gene_446|GeneMark.hmm|641_aa|+|5650|7575 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MLQAFRCRLVVYFSLIGFMTNIFGIIKTFKAKTSPWVSMIFSKPLLPAAQAFGIGVCIIL
INLLFSPSVSFASKRDALRIEIKIEKDRVKAPISELTKNLEKIAKIYKTSNQKSYWESE
GKGALHKFLRSRGYYSATVNSEISGKNTNSITFHIEPNERYSLSNIGIKFTTGSNLNIKI
PAIADLKLKKGTPAIAEDIFSTQKEILEYVEEHNCLLSVSHQAVINHFDRKLELVFFI
DAGSSAKIGEVSFQGLDKIHPDYARKLTKLKSQCFKTSLIKAARGRLQKSGLFASTKPT
IPKTTNKDGSVPVIFNIVERKSRSVLGGLSYGTDLGFGATLGWEHRNFLGQGELVRANLF
GNEREQILELNYVKPFFKRDDQTLRLGLRLENKKSKA FEHKEGAVSAFLERKLESEYWIGG
FGARFSHARVQKSDNSKEKLSLLSLPFFIKDTRDNILNSTRGYEVRLEGAPYFGVSSK
QKPFKTTISGAAYVKPSDSRLVTAFRGSIGSILGVRASVPIAEKFYVGGGGSVRGYEH
QMAGDLDSKRPLGGRSFVEGSLELRFHFAEKMGLVAFFDGGRAYSAASPDFGKKLLYGA
GVGFRYYTEFAPIRVDIAFPIKKRQGVDKSYQIYFGLGQSF

>gene_447|GeneMark.hmm|1172_aa|+|7575|11093 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MKNFWRILGGMIIILLVLLAVSASVWLKTNGAREKVQQLVVEAIKEQTGFRASIEGMNLSF
PLIADIERVSLSKGEEILRIKGFHINILPSLFLWEISVWSVSAKELHFLKKGAGGFV
PEEKSGDIGGASEKLGQSGTGFFAPDIMVRKVEAENIILAPQFTGIEKEVVLSLGGSL
SFDMGAKELEFVASSVTLLAGEALDENLVTIIGSYNVGAGDVRIKLEVVSGYIDARGE
FELRVREERVLGEMKYSTSRLGGVLSEYIEGTKSAISGIVKISGSPDNARVSAQGNVLID
FGENEYVRLSEIDWKSEMLFSKGAMDGSLTMNQGAVHVNGGIAYKDNKFYVKNMKAVAPG
AEEVINLVFNFENSILTGDVRSED RYLLES AKYFPFLKSGSLALKTVFYDNNNRQGASVK
GQIKQLSTKFGDCGLINLDLNSSDLWNGQIADSNVSLKFLEVGTLMVQSLKLRASSGGQG
GVLASSSGGNHIRLSGEIGCEHGCFVDLKFASRV SAPAGAGWSVAIDEISGMVGD AQVKN
SGVILLGGGKSAFEINDLIGRGTFNASGKISDRGKASAGGVSGLVMSDVP MNALSEI
LPEGYQDAKANGRIELSGGDAPVLKGRINIDGLLLPGLKDAKPGKGVGLRIVANLTS D
RTILSGRVLRL EEGSSSGGSKILSSKTFSSKAPSSKFLSSKAPSAGEE IARLKIDLPAK
FTMVPFEYSIDDKKNFNASLFSKNFDIMALVPAYPGHEMEGDINADIVATGTL SNPSFKG
GAELLRGEYRQRHG VVWLG VSGKLA FN GGQVLV GKMSARDESGNMIAASGELSLMGAHK
FKVEINTEKIKLISNAYLHGEMSGRLVLSGDKEQASAVGEFSLDSMEIKIPEHFTQHISE
INIIEPETEIDAIRAKVQGERGKGRGVEPEKD DSYK LKLDIKVKADKRLYIRGWVDALL
RGGLHITGFAHDPAAYGRVRVVRGKYQEF GKILD IKN GELTFDGSIPPSPYLNIVGISEI
GSHEIRLRLSGSILNPDISIESTPAMSGEEALSMLLFGEKAENISTFQALQLADSLRRLA
GHGGGFDPLGLGRKILGVDDISFKTDANDPKKTSVGVGKYLTD R VYFEIEKGRQESGTRT
KIEVQISPKISIKSVQEEEGNNSVGVNWRFDY

>gene_448|GeneMark.hmm|61_aa|+|11174|11359 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MYNDKIRQNKYFYIKILWYYTEKKVPAERKEELIKIILDELDPNAGEEVVKSVA DIYYRR
R

>gene_449|GeneMark.hmm|57_aa|+|11331|11504 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
LQIFIIIEEGREEAVIKRNTQIVTNMLEQHFDLKHIA SVTGLSASEIEELQNSAHNSH

>gene_450|GeneMark.hmm|74_aa|-|11799|12023 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MILKERNVLLGAIYKNNNVNKERKEIQNVLRKIKSQTRLCTFMDHFVKDIIAELVITSV
FLCAGEKCRAILMT

>gene_451|GeneMark.hmm|90_aa|+|12380|12652 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
VCGHQARLATLDLNLELELDKLGHCYHESELGFDCVLTSCFDYLSVFLIYVYLKYKITN
IFNKACEYYSHLHIFFSIKTKLTPSFSIFK

>gene_452|GeneMark.hmm|472_aa|+|12658|14076 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MTTQTQTQTTPATQRKEINKRPSRPVRKTPGRKPVRRDVEEDTPTVPDNGVKVALKE
LKQKSPEDLQVQAESLGIENVSSLLKQELIFAILKKIVEQGGQISADGVLEVLPDGFGL
RSPDANYAGSDDIYVSPNQIRRFGLKKGDTVEGQIRAPKSGERYFALLKVHKVNFEDND
HAYHRVHFDNLTPLYPEEKLSLEMQKGFHDFSTRTIEIVAPMGKGQRALIVAPPRVGKTV
LLQNIHAHAITNPEVYVIVLLIDERPEEVTDMKRSVNCEVVSSTFDEPATRHVQLAEMV
IEKAKRLVEHKKDVILLDSLRLARAYNTVVPSSGKVLTTGGVDANALQRPKRFFGAARN
IENGGSLTIATALIDTGSRMDEVIFEEFKGTGNSEIVLDRKVADKRIYPAMDLTSGTR
KEELLVDRATLSKMWVLRRIINPMGTIDSMEFFLSKFKETKDNAEFFSSMNS

>gene_453|GeneMark.hmm|318_aa|+|14108|15064 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MQKRPKIALIGGGNIGGTLAHLVAKDALGDVVLFDLTEGKAKGKALDIAQGATIENSVDN
MEGTNRYEDIAGSDVVIVTAGIPRKPMSRDDLVAATNANVMKTVGAGIKQYAPDAFVIVI
TNPLDAMVYVLQKASGLPAKKVGMAGVLDSARFNCFLAEFEKVSVENVNSFVLGGHGDS
MVPLVRYSTISGIPVPMIKMGWSTQARIDAIVKRTRGGGGEIVSLETGSAFYAPATSA
IEMAksyLDKRKIMPCAAYLNGEYGESDIYVGVVIGKNGVEKIVEIELNSDEKAEFK
KSV DGVKELVGSIQMSLA

>gene_454|GeneMark.hmm|372_aa|+|15392|16510 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MSSPDVLSFWTTSIKNTISMIKSNFTVRSVLALLTIILCNDSNAKSSCDNIAIELEK
LSNQGDIVSQNNLASCYYVGEVSKDITKAIKWYRKAADQGNVYAQRRLGSLYIMGAGVS
KDITKAIKWYRKAADQGFASQDTLGVQYSSGSGVTKDLTKAVSWYRKAADQGYAAAQNT
LGTLYFNQEGVTKDFTQAVLWYRRAADQGHVPSQAILGVLYANGLGVTKDFTKAVSWYR
AADRGHAFANSLGDLYIKGKGVAKDFTKAVLWYRKAADQWDAAGQNNLGNLYAKGEGVA
KDLAKAVLLYRKAADQGYAAGQNNLGNLYAKGEGVAKDLTKAAKWFRKAADQGSVLAQNN
LRTCLKALSERH

>gene_455|GeneMark.hmm|716_aa|-|16697|18847 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MKEKPNLQENTITQPQPSQPKTQGTPIPKKVDHEFELHGTKISDEYAWLRADGWDPKI
TDKEVLSYLEENEYFNNFITPLSAQKEEFFEELKGRIKLEDQSTYTKKDDYYYYSRTEA
DQDYTIYCRKHGSIDAPEEILLDVNELAKGKDFALGSFSISPDKLMAYSVDFTGGERY
DIRVYDLEAKTFLSDQIENTIGSVVWHERLSGFFYSPTDEKWRRDKVKYHALGTNSDEDK

IILHEPDPLYNVSASKSSSREYILINVSGHDSNEISYIKMDDDSLTPKMLKAREEQILHS
VDHNADYFYLSTNKGAKNFHILRAKSAKXSENSDWDVYIAERKDAYLSSFDITQNYLMMN
YLMMNYRANALPEIVIRELRSGVEKTIGFPDSAYTAGAYSTNFKEDDIRIGYSSLSRPSS
VYNYVFASEQHLHLLKTQEIPSGFTPEEYEVERIFAHTDGVQVPVTLFYKKSFLKKGDSNP
LYLYGYSYGISVPPSFRNSAISLVNRGFVYIAHIRGGDDRGHDWYEAFLTKKRTFS
DFIASAETLIEEGYTSKGNIVIAGGSAGGMLIGNVVNRPELFKAAIAHVPFVDVLTML
DEDLPLTPGEYKEWGNPKDKEYFDYIKSYSPYDNVLAQSYPHIFITSGLSDPRVGYWEGA
KWAARLRDRKVGNSLVFSKTNMSFGHSGASGRFDYLKEAADDLVFILEMFKRPQGM

>gene_456|GeneMark.hmm|149_aa|-|18915|19364 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MKCPFCQSANISVKDSRETDNGRTIRRRRHCLSKGRFTTFERIQRKLFVVKRSGTKRP
FDSSKILNSITTALRKRNFSDQIDELTNKITLKIESSINKEIPSRTIGKLIMQELAKID
QVAYIRFASVYKDFATAQDFAKFISKIKK

>gene_457|GeneMark.hmm|419_aa|-|19361|20620 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MTNQELSSTDPEIFAAIESERKRQETYIELIASENFVSKAVLEAQQSILTNKYAEGYPSK
RYYCGCDEVKVEEIARDRLKQLFNCSYANVQPHSGSQANQAVYLALLNPGDITLGMSLD
CGGHLTHGAAPNISGKWFNPVFNVDPEHLIDYDEVERMALEHKPKLIAGYSCYSRGL
DYARFREIADKVGAYLMADIAHIAGIIAAGEHPSPPHAAHVATSTTHKTLRGSRGGLIMS
DEEEIGKLMNKAVFPLQGGPLMHIIAAKAVCFKEALNDDFKIYIKQVIANAKILASTLQ
ERGYPVLTGGTDNHIVVLDLRKHGLTGKLASASLDRAGMTSNKNTVPFDDTSPFVTSQVGR
LGSAACTTRGFREEFRIVGNMIADLLDSLKESEENAATEQAIFAKAVELNSKFPVQAI

>gene_458|GeneMark.hmm|140_aa|-|20617|21039 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MMKCFIKIISFKISWILIMTAFVLWYIPNNYAEIKYSILDDVAYDDSNFLRHVYVKNMD
IKCQDKTYKFRGDHFDEMVRKNNPSIAEYKTVQFDTGYLNRQNKLFVRMLNSFKCSA
DNQYQSSYELYSPDKEQEKK

>gene_459|GeneMark.hmm|215_aa|-|21040|21687 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MTTDIKKPCECEPIAALS GKAKKLMVMLHGVGSDGNDLISLVPFLQDHLDPDYHFIAPDGI
EAYDMAPFGRQWFLQDRDPQVIGGLVSENAPKAYQIIAKKQQELGLSNADTTLFGFSQG
TMLGVYMTLMQEAPFAAMLAFSGRLITPMLLQNTQTPICIVHGEQDDVPAQESDNMAKY
CSENNIEHRQIMVPNLGHSIDASGIEFALNFKGE

>gene_460|GeneMark.hmm|212_aa|-|21688|22326 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MQMNSKTIDKIFQSFYNATQKPQTELNYSNNFTLAIIVLLSAQATDVSVNKATKDLFAKY
DTPEGILSLGEDGLKPYIKTIGLYNSKAKNVIALCRILIDNYNSEIPSEFDQLIKLPGIG
RKTANVVLSCAFGKVTVIAVDTHVYRVSRRLLGLSSGTVNGKVEEDLLANVPTKWQKHAHHW
LILHGRYICKARKPLCSECKITEYCEYYKELK

>gene_461|GeneMark.hmm|128_aa|+|22547|22933 >NVVL0100009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence

MSGEEIFDLIKKQISDDNVVLYMKGTADFPQCGFSAMVAGILQTLGIKFKDINILSDENL
RQGVKDFSDWPTIPQLYINKEFVGGCDIVREMYENGELSDLLKKSQNKGAQQLDEETESS
AGAVTEKG

>gene_462|GeneMark.hmm|306_aa|+|22974|23894 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MSESAISRNLVKSVDQNVTKAVDDDLTIPKGSIFGLLSNGAGKSTLINILAGTVVKN
SGVVKVMGVLDDELPPKVSSLIGVVPQEIVFDSFFPIYQALEFTAGYYGIRPNFRKTEEI
LRALSLWDKRDVMPQKLSGGMKRRFLIAKAMVHSPEVLILDEPTAGVDIELRTQLWNYIK
ELNKNVGTIIITHTYLAEAEQELCDEIAFIDKKGKIVKQDSKQNLLEDLSDRHVDVEFSENV
TLKELSLLSKIKPEMILNNKFRFHLTSYENNYSKLLESSLGKEIKDLEVSQPDLEDVF
HQIVGR

>gene_463|GeneMark.hmm|295_aa|+|23968|24855 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MIEILTNRVAVLHVRGGDAGKFLQALVSNVVGKIYSYNYFLTNQGRYLFDFVYKEDTSS
YFIDLHEKDLVGLIKKLTLYKLRSDVEIQDRSGEYKILYSNDKLTSAETDAETGVELES
NAKLETGAKFSLQDPRFDEMGRSLIQIENINYPPEKYGAIYNSDKYHCAIADGRPDLIY
DRSIPIEYGAEELLGIDYRKGCYIGQEVISRAKYQGVRKKIFKLSFDKELSGDFCGTDV
TDLEGKKGIVCSGYKNQVIALREENYLGLAEKLSIVNGETAEILIPPWRTKAI

>gene_464|GeneMark.hmm|428_aa|+|24834|26120 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MENQSNMRLLIIGDLNSEIKIAIDIAKSKNAKVMVMVGSCDEGIDFMCMGKGADLVLSVQ
FDIKSLTKAMKNEKISTPVVAYGVQCSPKEAVLAIKSGAKEFLPLPPDERLIAAIFAALS
DDSVQIIAESKPMMDAMSVADKIAASDANVLITGQSGTGKEVFSSYIHSKSKRKDKAFVP
VNCAAI PENLLESELFGEKGAFTGALSRRIGKFESSGGTLLLDEISEMDVRLQAKLLR
AIQEKEIDRVGGAKPIKVDLRVIATSNRDLKKEIAAGRFRFDLYFRLNVINIELPSLKER
EGDIKLLSDYFIEKHVKNNGLAPKTISKEAIEKMLTYSWPGNVRELENVLHRAVLMSASS
QIKPDDIQIEERADAGNLESGSGMPSMEKQMVFNLTLYCLGNMSKAANILGVSIDILKE
KLEHYTKE

>gene_465|GeneMark.hmm|280_aa|-|26312|27154 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MVTHAKDKENSISVNFVWVGRGSRSCCGADFMFEGGSTSCISLEHKGTHYIFDAGSGIVSL
GKKFKSMKKAHLFLSHAHYDHVNGMSFFDPLWNPNTLDIYAGVLAPYGGTEAFFKKYLF
SHPLFPVKPSDIRAHLTYHNFTPPASLTLEDAELKTIYLNHPGKASGYALYIGGRKFCYI
LDTETSGESFIDAICDFVKDADICVYDSTFIDAEKEEYKGGHSTWQDAVSIAARANVTR
LFLTHHAPFRTDQELRHIENEARKIFPNTHAAREGEQVLL

>gene_466|GeneMark.hmm|355_aa|-|27160|28227 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MYTLDKYKDQLSILVDDNEDNLFLLTRRLKKEGYTNYITVNNGKDALARTKDSKIDLVL
LDLLMPDINGDEVKQIKSDKATNAIMVLMISGDDRTENIAECIRLGAEDFLQKPFNVDI
LKARIGGCLRKKYAEQEKDYLEKIEFEKQQSVQLLEATFPGKIIIEELTKNGKVAPLLYK
NTAVIFTDISGFTNYCSKHSPKEVFDNMQAYVNLCEKLSKHEKLEKIKTIGDAFMATGGM
FVKTANPVLASAAAFALDLLKERKSLPTLWDIHIHIGIDYGDVIAGIIGHSKYLFVWVWGDVTVN

VAARIQDVAKANSVCISKNGWEKIKNKSTGKSIGKFDLKGKGGEMELYEVTAIKTG

>gene_467|GeneMark.hmm|121_aa|-|28241|28606 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MIKILYVEDNEDNVYMLRMRLEKSGYEVIIAENGLIGVEKTRSEKPDVIMDVGLPVMVDG
HEAIKILKADEATKSIPIIILTAHALSTDVKKAKDVGADGFETKPLNAASLIEKIEKLT
K

>gene_468|GeneMark.hmm|111_aa|+|28668|29003 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
VYLFVKIEGVSIDDYVTSEAQIGNMRWDDFRINFFLSNIARHAILVRTSFHRGIMSARAI
LSSKGQIVTQEPIGRNLSDFFGK GKALIQETEPQKENVDDLIAQAVMKNDR

>gene_469|GeneMark.hmm|322_aa|-|29095|30063 >NVVL01000009.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_3623, whole genome shotgun sequence
MFEKPLISFDYAIKFLKNKEGYEIEGFISALFAAENYKPKITALLESSESNKERADFK
RSIADLVVEDTDGNKYIVEIERSFTTNFMHKACFNSSRLIADNLSVSQDYTNIKKIFHIS
LLYFETEEMQKPIYHGKTVIHEVDTAHPIDLVRVMNQGMVTFENHNVPPEYFFISIPRFNx
xINQEIDEWLYVMKNAEVKKDFKSPYMAKxxERLSVLKMDDEERNQYYKYLKESVNKEDT
LTAALEKGIKGMKQGREGREEGMEKGLEKGMKGLEKGMKLEKVAIAMLSRNKPLD
EISEFTGLSSQQLLTLQRSLNI

>gene_470|GeneMark.hmm|190_aa|-|2|571 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MLGSTIYDSYTQSTHSCIDLHKNFDQGNPLYEYEEGKGPYMRYTSTPNQRNIIKDLDNID
IPDDIKELANNMYKEINPPTKRNISRSYMLVYFIICAYDKLNRVYDPKFLCKKMGINVKS
LNKALKLDTKYKMGNFCDRSCIDYIPMYELMGLSGKLLVAKDIATQIHKDDKIRRF
PQNVAKGIY

>gene_471|GeneMark.hmm|444_aa|+|663|1997 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MSKKYLFSTLEVRKGLCASQENRKINKNKSLVIRLLNKDLSFILIKKIFIGGRVKIKRC
GAIHSYIIKGEYIYLPYNYAKRIVGLEVYNKKYINIELSMNVKLRPKQIEARDTAMVYLK
KTGSVTLALYTGFGKSIVSLNLAIALGVPIIICIGNILSNGWLNLLNKYTDARSWLVGS
ELTESVNIIVCPMSKMHMLSEEYLSNFGTVIIDEVHEMCTKIRIHKLLNLTPRYIIACSA
TPDKDDGSDIMYKICGDHRVTVKDNRPITIKFNTGMHPDNLKWEDLLTYLYHSNKRN
NLVLDIVNNNPKKKILITWRVSHVNILYDLSINGKSVDFLHSSKTEYNDSDVLVGTVS
KIGTGFDEENICNFKGKRLNMVIFLSTSKSKNLITQAIGRVRADNPSVVFCDNSKII
RRHWTLRKRKVPNASYEHVKIFDQ

>gene_472|GeneMark.hmm|437_aa|-|2071|3384 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MTPGNVSNLESDGWSSFQRLHTIESKGETIPSKFSHQATKISWSTPVVREVASRNTRSG
STYEADMNCDFLSNYSMTLDPQITVGDYLESVQVCWTPNIFHNIIESGGLYMNGYKYQ
NVDKYWLDIHSQLITSSSESKRNAYMKNIGNKAALCDWSCNIEGDELFLFIPWFFTENS
LSPLLLIIKDSVKFEFKFNLNFFSLIRMRIKGENGNWECIKYDSKYLKGINDKQRIPSPQ

MFAKYLMILESERKWRLSESSHKIYARDMVRVSSMVVREGGDRVDININCSNPITHIYWT
AENMEQNKLNLSNYTTSGDESGKNPIHKRSMYSGLERDEELSGGHFEYADPYMSLAQL
PKSSGYNSSSYSDTTKINADTGISTSGKNSTMALWIKSETDQQKYRVNCYLEHMIEITY
SKKDKCSISSSQVRAYK

>gene_473|GeneMark.hmm|483_aa|+|3606|5057 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
VKYSKTPPEFAKRVNKEKRDVTLLSIQKILINKGSVEITIDLRDGSEYKGFNDKTFM
MLRKNHRESLDGFKDMFKRNRVKKKYSLNNGFKAPMYLNSDITEFLVQGNKGLFGYAY
LDTSVGLLSETIVVQDDGDDEGNSSPSDRNSILSSAIFTSIMAAAYLTNLSRSTTNK
GLTRGDKGYKGNHYGADVHMNNHFRKIFKATNEKVNATYNEILSEYKSLAVGEGVDKRVK
YLRSIGGDFAVGELKRHGYTGKFEFVTSKRKFDENDFQFSRIQTFTSVGKLSRDDVKGK
LGDVRFMYPKDLRSILDSISPEINNYIKQVKDSNKRNDDSYMTQVNHGYVPASEK
YDAEKMMDILDAAVKRLTYIKKPSDGSNPKNWDKEEMLYQSVSMRLLTEIAQLVISRTLE
VMRIMKVLGLSMEQIKDIVSGGRVIQSVGLSGTRGTVSTRKVRKGGKVRQPKKPRPRK
RNK

>gene_474|GeneMark.hmm|139_aa|+|5116|5535 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MNVSKLGIVNLVLIIVFVVTSSSMFLSHKNSVQNYGIAFKIQEGVTTGTTDSMVTGG
NNMYIANSTDPLTLTGNNDHLEGRVGIKNNTDNNVTLKGQINGITLDDGGLTLIVEK
YKTAMFISKDRKGTYLRTQ

>gene_475|GeneMark.hmm|316_aa|+|5611|6561 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MSSIINNKFGKDVNVKFTSVSNGLLVSIIKIDNVRGEIVLSDEDEYFLGEILKNVLSK
NKHSHLLISPNTHIKYGNSYIPSEYIHSALSKITLSKVYDSYTEEGMYISLKHINNMIDV
SSIIKLFNDVVSKIKTLYKNNILFDIQNKIAEMWGFVKLPNNLTQVNLDERIYNRVELA
KNIKSGEDVILDVEVGSNAVRHEISRNIKFNFVFFGDILRIYIHM RKDISNVLNEISKI
NNDTHGRIMIIKETLFDNAKDKYDIAKSLVDNVEYKLSNEYIISISLPKCLGNVDGRDI
LREINKKYAMKRISHL

>gene_476|GeneMark.hmm|491_aa|+|6563|8038 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MKGIFIEGEIGEEYTKSKYLYKGIVELTLNDKYKGALMSERIIQISTSYIGHIEDIESI
KEIIINMCSKLLHSDVEEVTTTKTYSKNGIMTTFYPICKGRPLYSLDYSRFRVNCNIKEF
MGYTYIGNANEMRYIMDNLQDKYRELITESYLLGYCKPYIKEICGLGLGRSDPPYQINT
IKNKIQLLRENRIVVMPRMTTDNNIKLYPEIAKAFGIEIVSDALTVPIAFKFERFKEIT
LQSWLQESAIQIVNNNIPIYTIDFMTLPKFSHLSKSHTSKVRSSIESTSNIPSIVVGEVT
NIYKEILPIEFIKDFSIKTDAITGRFSSIKQINRFVDALHSFVDGTEIAIGKNTKRFDYR
NVKPVNSNVYIEERDL DVEIKSIYDLTGTVLVSVHVKIHVDDYFGNEYVEFHLDIPMIR
SDQSFSDLFTLVTELWETGMFLSTWCKFNII RTGEMSRYPVYIFFDSVTLDSLVEHETA
RTECDGNTKLI

>gene_477|GeneMark.hmm|231_aa|-|8360|9055 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MDGGIYLSIFVTFILFALILLYFHTTNI STSRTLCPVKGCKTNILSGVKQCPDSKARILV

TPSTEV CNSPSTCESNKTPFALKKDGSTNADGVCDEGDVCRCLQKPRCANHITSYFTA EK
GTPSLGILPQRIVFNQVYSYTDISGKYNIKRPLEYINTLTDFCTIPNSWVSDDRIWPNNC
VLGTLVSIPDEPDTFNKSKISITPMGCVIGNGDECPDKFPYWDKDKISCAS

>gene_478|GeneMark.hmm|182_aa|-|9080|9628 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MADIENQINVHIRNCGTDSGTHSFTSSDSFEDITENITEDIVEGLEDIIVDDVKEMIKAL
RKKIFLCDIAKAKTYRISSNFLAILIILMASTLGAYESFQTEKNIPVITISFAIATLKVLH
QYINTGNRGTFFYKVMHIKFRKMFTNATYALETLDNNDELLEFAKILRNDIDNLDLSLYGA
PK

>gene_479|GeneMark.hmm|245_aa|+|9693|10430 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MESVIPLTAFSDKLSLCFDAGVYLNLDNMTLSKISLKYTNEVYKVTSNRSSTFLKYIALI
KDNRCVFDLIKSNPNISNIFGFLWNDEKKNVNVMDRKSIVTKYCGRSMGDKCFCKMG
ISYWDWNECLIPVSCGGSTTEENIRITCFRCHKASSTYVHLAEYMLHMKYDIPKSVPS
VINLYKSIVSICESGEHKIDHLVKDKRISLIESAEFKTLLWDLNLDTRFITYNTLCEIFN
RFRSD

>gene_480|GeneMark.hmm|131_aa|+|10993|11388 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MNHKNKLDPFSAKLLLDLELKAFFPGKTEELAADLLPGDSGGMRALMTMNPKLLAATL
SLIISGYRVDEVSVGDGQMEIINYLYGKGSGEIANEKKGKTKTSLMRYARAIKHYSLSL
LYEESDDSSS

>gene_481|GeneMark.hmm|636_aa|+|11473|13383 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MQDVFAFEYSGVNISLDPSEYSNSERPEVSSDNVIISPIGSEDDKKIVLELLPMVSVER
ACNLQDCMRIGRSLHVCYDGSVEGLSKWVDFVSNDDILDEEDCNMEWRHMFDSKSMGLRN
IGYYAELDSPLEYDEWNNIRFCKQLELALGLAHTDVARLVWLTCWTSYLCTRIDGNGWYY
YDGNKWTMDKGVKLRKYVSNEFRSLLERKRTNLSRQLEGPGTSPKLGERALDNISALI
CKLGITAYKTCVVKELAEFFYDEFMERLDTNMHYTGLSNGVIEICKGEAFIRIGMPGDY
ISKSTNIRMPSDITYESGPVVECMTWFKKCFCDNELVRYFLRMSASLLMGGNQDKLIMFF
LGAKGDNSKTTIKLFEKSGDYCATFNPNLFTKEMSNSGPSPELEKKGKTKVAFINEPS
PDSPWGSSLIKTISGGDRYFARKNRDDGGYIESSFMLIILANMIPPMSPEDAVKNRLKSL
PFDSTFVNDPPESEERWERRIFKGEKNFSRNFVLPAYFLWIIASMYTSYHKHGLKEPT
QVIESTKQYWSNDIYEIYIRQCLHRVTIDDTDEIDTNIKLLVVDAYTKFTQWMTSYSSH
IRVPSRSVFINEMKKKYRLGNPIRDEWVGFTIKCEI

>gene_482|GeneMark.hmm|191_aa|-|13425|14000 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
LEFHLPFSFSAIYVLLPSNIFYMLNVYVDIINMEIARHKTSKVDEIYLISEKIEKPSGL
GYLMGSGNLNSKGFILNAISSTSSTKRLTMVGDKYQIEPNIHISPTLVYQGDNDYSKMLS
NSGDYLVVIRNNDKSGISNKIKNMSFGVWVLSYKDALRVASEVIRLGFILTEKKMATLDE
MRSLDVDFITK

>gene_483|GeneMark.hmm|290_aa|+|13982|14854 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MGDEIPTNPKSPRDETIITIDGKDVDNRDGVDKIELIDPLFPNFEEVVDKIEFTEEVPELA
VDKEVLDLAVKKIEFVDDTHELPKSLEDMSYEEKLDTKNELLVKIRILRKTYPEYDIPMC
STKCVSEIKKIYDKWLRQAVVEKNAGDYKIYLVLFVWLVIELIGTKVLGLNFSGFTLNQFN
LVNKYETLLELGEKSYSDISAEWSPEVRLIFLSMTNAIIFTIFKYISSSLGVETANAQ
SAFNGLFTKTKSGKGETDVAGMIANFGSMFTGVSNTKTNTKPSRVPKYSG

>gene_484|GeneMark.hmm|206_aa|-|15339|15959 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MCELYWPHTERKKEDFMKSISHHIVIRIVSIDPGVVNFCFRIEDRYNNGNVVTLAYTNI
DNNNDKFVYLSKFLDKYTNEYAKTNIFVIEKQLYFSVGAFSVMHHVLSYFIKETKNKSNY
PLIYLANASIKWNGITDKPKNVKKWSIGKAIELLELRDWTSLRILDSAKKKDDLSDVV
TQAEIVRKLGLNYHITRAKIHLCI

>gene_485|GeneMark.hmm|135_aa|-|15992|16399 >NVVL01000010.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_7217, whole genome shotgun sequence
MYIVILLVYILYLFYLTNNGNVKLAKLSHLLNIIINKSKIYKYSYTLSESNVSSFVLNK
KDIYVVLQRNGIMYDDNTIIGVLLHEYSHIVCSLENNGHTDLFNKIESVLITSANDLGV
YDSTLGVD DDTYPCVK

>gene_486|GeneMark.hmm|147_aa|+|3|446 >NVVL01000011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
NRSRVKENKAVLPTLSRVVINKVDAVSVPTIPSTERIESRSSHSQPQLTKETPKHRFPKW
ISPTNQMNTRTRRRRENDLLKRKNVKVSFKPDVPIMRDMIRNAPTDQRKKNIVKRAPSPT
VRVLSKRKNKLD SGLKVKPKPKYII

>gene_487|GeneMark.hmm|82_aa|+|454|702 >NVVL01000011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MERVQMHPE DRASFRNEKSRVAVRMCILQYKCSIACIIVFFLVIELLSFGGELLFVLKDE
ETSNKIFKMFLFRNCSRKIEKD

>gene_488|GeneMark.hmm|434_aa|-|1514|2818 >NVVL01000011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MAQTKPLPIGEFEWLTDEEDREEEKWLEYEQEYGFIVEVDLDYDPDYLHGHHSFPLAVE
RVKIDESMLSEYAADCHKLLRGGREKYSAEKLTATFNPRKKYVTHIFNLQTYLKLGMELT
KVHRVLRFRQAPFLKPYIEFCTAKRAASTSKFQENLQKFFANAVFGKTIENVRSHSVCKF
VRNKKSCGRYIASPRFKHFKIISENCAIVFLSQSQVKNKPIAVGFTILELAKEFMYSQY
YNTIKPIFNNQCEVIMHDTDSLLMRVSTPQAE DNIEKIKHILDFSKYPKTHPKYNIINKN
RLGFFKDEVAGNHTEVCALRSKVYSLQIDEGDTKVKTENRCKGIRKGYSKKIPFAAFKK
CVLSITNHRTTQYNIMSRNHNVTTNKVNKLSFSSFCDKRSLAICGIHSYPYGSILIKKNY
CYLCVRDNVIVKRL

>gene_489|GeneMark.hmm|822_aa|-|2882|5350 >NVVL01000011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MPLCDLCGIVFSRAYHLKRHTERVHKFGQRFVQCAICNAIFTKRETLQKHREQHIPTTLF

IRYQSAFKRKLASYRKIYPRMVKTYEKAWQLDHVSLNKLISFHLETDKFFKVYISTTIEF
VKYELDDETPEDNIELHLTSNTYAVNNARSARTFLRNARRNIAERVDDMLTHGSNWRVDE
VLYTDIHFAAFNPIAGSCGMLSINNLKQIKKFKPKDSKKGANQNDCFYEAIAYHFTKSKNY
KVLQAFIRKHINRNVKTPIAVKDIDRFLRGNKQLNIAINVVYEEEDDEEIPIYTNSEVKD
EDHTITLFLYNTEVDGVLVRHYTHVEDINRLLRRKYNNGRKSIGNALHCFNCLQPFFTRN
ALSNHRELCLTNKTQRIELPQEDSVMQFEHHRKFKVPIIGFFDFESSLVAPEHSCDKCK
VGISACKHKTVEHLQIPNTYSIVVDWTDTVIHTNTYSGEDCMEKFFDELLEPRLTA
VVDEAKALHGELNMSKEDEVMFQSATACNICDKVFMHDEMRRHDHCHLTGVFLGAAHVAC
NVNRVVPSTFVLMShnftGFDSHFVMSMTEDKRLNSLKALPYNTEKFRTLFNNYTFVD
SIAFLPSSLEQLVRDLTTTECFNILDQVQLYPNDRSDLKKLFLRKNVFPYEFNTSLAKL
RATKNIPAKEDFSSKLSNSVISDEDEYAHATKWEEFECENMDEYCKMYCLSDTALLAxVM
LRFrNEVMQDHGLDCCHYISLPQLAFDCMLKMTGVKIGLISDPDMYLFIEANIRGGSSYV
NQRYSKSGLQDGGEQEIGLPHAREEYIEHVYVDAINLYGEL

>gene_490|GeneMark.hmm|441_aa|+|5603|6928 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MEKGFGLLENETDETTGSLDFYAGVKYENSVVSGTIETFKPLSGTVAPFQFQMTDRGRG
SYIDLARSRLYMELQVVTDKGKPVTTDLDSIVNDIGNALWSTVQFELADRACSELTQEE
YNYHSLIQKLLSYSSTSVAGHLKASRFHVDTANNYDKVEQRQNEGYDQRKKFCEESNVFQ
VIGPLCAGFCQMSRYLPASLRPQITLVRASSDDFVILHKGDAKLKIVVKAELLVPYITI
SDTMQNRIESSLMKQPMIFPFTKTIKTKQIPTGNLSAEIENLFTGLLPTSIIVGMVRAD
SRSGRSELNPFrfQPfnVGEVSLYANGVQYPRGAFTPSFDEKMYMKEYLALFDNTGIGSE
DDTNLITTTQQFEDGMLTFAFDLSPDGCNLYHNHSPPLEGNIELKIKFKSALAQPITVFVF
GNIQSALSVDKNNKTVVLTGI

>gene_491|GeneMark.hmm|166_aa|+|6933|7433 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MAWQEKIVRKAYPVISSEGLTNIFVENYLAHCHTFRGVFSADRIPNILALEKRFSIVVN
LSNYGEIGSHFIAIIVFEDHVYIDVLGEECTNKHIKKYLDYLRKPIQSNIRKIQSNTSR
CCGFFAIVYVMYFERPTVIEIVFHRGEQNLyrNDDLCIQYIIALRQ

>gene_492|GeneMark.hmm|86_aa|-|7527|7787 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
VRDFSRAGPTLPRDKFFLGEKHSLOIGSVKFPKGRGYSFDAVVFTRDGGVDSEGRQKKPF
SFNLPAKLILPLHRAVTEIVTQAGLI

>gene_493|GeneMark.hmm|250_aa|-|7883|8635 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
LHCYIVENKPTAPTLPDASDIESCREGEDEYDSDPDFWQSGQNLDNVLAASEGEEEEV
EEEEEEEEEEEEHDAVENVVTPrTSGGVGRRVALKPAIKRVRDQADREGDAAVKSP
GANLLRRSVSVFQKGGDDHDKEREVACGAASEVGSPPKSSQIIASSAPPPPKPKRRVAG
REGAGGSTDNGERHTGAGRSKLLKFGGLSIDSPNlGGVGGGDVEPSCSDNALDTPGG
LKKQKIKGEY

>gene_494|GeneMark.hmm|191_aa|+|9258|9833 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MSGEPTLKNIKLHFYIDIISLEKKLSKVECSVVCNNFAVLRskfTYIVFYGVNFVNTTG

VKSFGEIEASISHFCNLIQADRVTIEKYTIDNITWSGVYRSQIDLINLKREVINSKEDIR
VIYNPFKFGASFRYNKTLTREKSPTLILFTRGTYTIVGSKCIEDAMMIYANIKTFLRMI
DREKSFAQTAG

>gene_495|GeneMark.hmm|211_aa|+|9836|10471 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
LGPLLQADLYCTHQSMNRCQAQCDVMEFIKNVCDRSHICTRISEYAYEYLRLLKLLAAS
FTMEETAFAIFESCNRHDSPRSSEEICQHSGVATSRLFLENLINTSNTSAKHFLER
FCGNLDLDFTEVQIGRVLGNNLYALRRMQPNCLVAAVIYFHCIVNNVKNLKEICEACN
VSTGNTRRIAGLIREPYYGEGFKSKMENDFV

>gene_496|GeneMark.hmm|123_aa|+|10528|10899 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MYIARGRYIQRGRGWGGVFKSIFRTIMPLVSKIGKSIAASPTAMRVANTAKQSIANSALS
VAADAISGENVGESLERNWKRTRQDLGNSLAPPRAKKAKKKKKKTKFTARASKYRRDRD
IFD

>gene_497|GeneMark.hmm|363_aa|+|10902|11993 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MSRKRVESNYVKLRHPTAFSGKSKLSQYYKNTAKESEIDNALSSNYSYSLHRQYKRPRQY
NPFFIYKKRQQLQIDLLETSKLSASNDGVRYLLTAIDCFSRKAWIEPIINKEKNTVLAAL
RRILEESGPFETAYVDHGSEFISNVMKRFFIAENIKVYTRSEIKAAIVERFNRTIQTLI
YQYLTEYETLRYVDVLQDLLSYNDRAHRSIANLSPNQAELEENKNKVVNALNKHYTKAT
RLRNAKKKRQFKVGMVRLKLGAKFVRGYHLQFTLELFKIEKIEHRMPIKTYVVRSMdT
NEVIEGSSYPEELQLVTNGGIFKVEKVMKKRTRRGVREELVRWEGFGPDHDSWNKVSDVA
RRF

>gene_498|GeneMark.hmm|583_aa|+|12000|13751 >NVVL0100011.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8423, whole genome shotgun sequence
MSSFYVILSSAYSTKEHPSNALSKFVNIFCHPLDLKENDWKVAVQSVSFDSVYFYSNHGVM
KICADVALVPYLTNETIITVTVPFQNESLDIKTPTDLYNYLFPFVKQFNRESVKKLDLYI
QQNNDVNSSSYQTFSTEDLAKAPYVLMTLEKNQIKIEGVYCYIKMWTVLARWMKLNVIHG
YNGEYVVLILNRDSAYITKPASEYDKPKKPELISVKMSEVKHLSKKNQIISTHPFMDE
HNPYGNYYFEVTRKEYHSLTHINIPQLSVELDENNKQLHLLPGQATHIKLKFMRMNSST
FVLRGSSDNSTSIYPDNNAAAFKIQLPTYIDLKHQYEVALLSITHPQKLNYSVADEHNF
WIELEYLYEGETIIRKFDASPCLDVDNKKDNKSFRRSLYKMLNDRITIEHRQKVRFTHV
EEDSNTVLASSLDTTTRVSILLAHVLGKHNIHTLYDEIKTSKNRNNMGEGANIILGDSI
VYSTGFDLFRLLPHCMMLLYASCINPVHYGGHQAQILKFIPLHLVNKTLELQHSYESTHLD
YQTVNQNTLNQLQFELRTIDGKLVGFEGSQNTFINLIFRRIE

>gene_499|GeneMark.hmm|107_aa|+|3|326 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
GVGNIYAAESLFMSKINPLTKANTLGAGAVSALVKSIRVLQKAIYAGGTTLKDFLGGDS
KPGYFKQELQVYGRKGLPCYICKTPIESLKQAGRATFFCPCSQQNKD

>gene_500|GeneMark.hmm|428_aa|+|633|1919 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
LKKALLIEEKARVNIIMSARSKVLLMLFLIIVLFLIINTKTICNEKYWEIARTKKQI
ANIEICTKEGNVDAAILASQMYGKGDTIKRDHDKAIDIIQKFADSGNSAALIQIADLYSC
YNKYRNFNKAEKWYKEAINNGDNYSEKAKIALAKFYLRKYFNTKDSKYIGLYIDHLKEIA
NNGNIDAILLLAAEYKEGSYIGKDYYTSLNWLEKAAERNSIRAYRSIGNYYANGFFGEAN
YKEAKHWFQKAAKSGDNVAASFLKSNPTPFGLEITKATITDFKRKFRKHKNKIDAPNFING
GYTYLVSPKYIPLDDVKKEVVFVFDKNSILDSVLIVFDKRKYGEIQTHLKSXYAPIVKGA
QNIFMHSLTEVRLNGYVFYSQLNTDGYNSKVCTLIYESRAFSIKLYERDRFLRKRQQDI
KKQKMNLL

>gene_501|GeneMark.hmm|90_aa|-|2220|2492 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MDSFNVSALNSLQDILFALTQHNEELRNAAWQHLISWHNQYAVKLWFSFGDDTYERTVKM
LDKLRKTNIPEPPYHAWNDLPNIMKTIQKKK

>gene_502|GeneMark.hmm|126_aa|+|2555|2935 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MGFAVCPLYIYQRFYPIFIMLSIISLSCGGQNYNKYYISTILAAIVLAAHYHTSIEWGIF
EPSSLCKPLVYIDADFSVDFKMLYSQKIGTCSKPALVIFGLSMTEWNLLLNLVLLPIF
IKYRRL

>gene_503|GeneMark.hmm|83_aa|+|3163|3414 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MHSITYTALRKSLSSVLDLENNHVAYQVTRKNHKNMIILTEEDYNSKQETLYLLSNPAN
AARIRESIKQANNSEFVEVDLDD

>gene_504|GeneMark.hmm|88_aa|+|3407|3673 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MTRKIKWTVNAAEDLAYWKKYDLNKYNRIKLLVKNIQETPITGIGKPEALKHALAGLWSR
RINQEHRLIYCITAKEIIINYCRFHYYK

>gene_505|GeneMark.hmm|74_aa|+|3859|4083 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MSLDKRGDYWMDKAVQIWLKKNYALTAEIARLEQQKGLTPDPTIDSWVEQVVDIQLENTVL
AAEIARLEDCMPSN

>gene_506|GeneMark.hmm|84_aa|-|4236|4490 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MKKFTIYTTNVCPYCVRAKALFDRKGFAYDELNAEDAKIREEMLAKSGGMRTVPQIFLGH
IHIGGCDELYALEKDGKLDGMVEG

>gene_507|GeneMark.hmm|661_aa|+|4728|6713 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MSSFKIKSKYKPNGDQPKAIASLIKGLEAKEKSQMLLGITGSGKFTMANVIEQTGRPAL
IMVHNKTLAAQIYAEMKDLFPDNAVYFVSYDYQPEAYIARTDTFIEKDSSINEQIDM
LRHSATRSLMERRDVIVVSSVSCIYGLGSPELYSQMTLLEAGKEYKRKDFLNQLIDLQY

DRNDIAFERGSFRVVGGNIDIFPSHYSTRAWNLSFFGDELEYIREFDPLTGEKFRKFDAA
VLYASSHFVTPEAVIKKSIVEIEDELQERLAVMKDMGNSLEAHLNQRQTQYDMEMMLQATG
SCKGIENYSRFFTGRKAGMPPPTLFEYLPPDALLFVDESHVMVPQIRAMYNGDRARKSSL
VEHGFRLPSALDNRPLKFEWLDYRPQTIFVSATPAAFELEETQGEVVELIIRPTGLLDP
ECIVRPASTQVEDLIGEIKSTIKRGFRILVTTTLTKMAEDLSAYLQELGHKVSYLHSEIH
TLERVEIIRSLRLEIDILIGVNLLREGLDIPECALVAILDADKEGFLRSETSLVQTIGR
AARNSEGRVLLYADKMTNSLNKALAETDRRRKIQREYNKANGIIPQTISSKIHSMELKK
VEDIAGGTEEAKIILSDPAKLQKHIAKLRREMCQAADLEFEKAAKLRDQMEVLKQAAL
M

>gene_508|GeneMark.hmm|426_aa|-|6845|8125 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MSVPSVNASSMDVSSAQASPAQASPAQVSSAQVSSAQVLPNSMPPISYIHWPFCLSLCP
YCDFNSHISGSIDHEQWLTAYKAEIDYFAHKISGRKVRISFFGGGTPSLMKASVVEAIQ
KIGDLAKITDDTEITLEANPTSJETQKFEFESAGVNRVSIQVQSLRQEGQLLGRKHS
KEAMHAIESASKLFARYSFDLIYAIPDQTLLEWQDDLKAAMSLAGGHISLYQLTIEKGP
FYKLFHDGKHLPSNDISSNMYEWTNEYLLENGYRRYEISNYAKQTHESIHNLCYWNYNE
YIGIGAGAHSRHLHNDNMEIQAIMMTHAPAKWLSSVMKNGHGIQTSCNLSRSEVIDEMLLM
GTRLETGILEDNFQVRTGMNFESVLNLKTVKHIEQDLVSLDNGRLKLTDRGLMLHNYLV
PRMIKT

>gene_509|GeneMark.hmm|260_aa|-|8122|8904 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MKIITWNINSVRLRIKLEKLCIEQNPDIICLQETKTEDKTFPLEAIKALGYEHVVYSGE
KSYNGVAIISKQPISKSFSLSLYNDHKRHICAQIGDIEVHNFYVPAGGDEPDIELNPKYK
HKLEYIDLMMHWLASNKSXSKDIILVGDNLNAPHEHDVWSSRQLRNVISHTEPERTALLA
LQDSLEFIDTGRYFVNMSEKLYSWWSYRNRDWTNSNRGRRLDHIWVTQPLKDNLKSINSF
QEARSWEKPSDHAPFILDML

>gene_510|GeneMark.hmm|94_aa|-|8947|9231 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MRQIEYSSAFKKDYRRESKGGKHQKTIDAKFKYVISSLIEDKILAKEYRDHDLGDLWGYR
ECHISPDLIIYRKTGKDFIRLARIGSHSKLFFK

>gene_511|GeneMark.hmm|88_aa|-|9218|9484 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MSVANTYVRARIDSVTKERATEALHAMGLSVSDAIRLLMLRIAQEHRLPFKVPNQATK
EAIGELESNKGTKVSNIQTLMASLHETD

>gene_512|GeneMark.hmm|464_aa|-|9591|10985 >NVVL0100012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MMRFFKHMRAGLKLLCTLCKNQILTYPPDKLKLPRHLKVFGTICGIIFYPKGLFIRPKT
YGERFSNCLYALGSIYIKFGQTLSTRPDLIGAEMAESLRYLQDRLPFFDSIVIERIETQ
FGKKISELDFEFEEKPVAASIAQVHKARLKSSELVAVKILRPDIKKYNDIDFLEYCA
ALITKMKVSSKRLKLTVEVIGIFRRSMFELDLRSEAAAASRIADNFTGDDSLCVPKIHWN
LTTNDIITLEWIDGVSIDYKEAIIALGHDPKEIAAKIAVIFFNQAYRDGFFHADLHPGNI
FVCKDGRVALVDFGIVGILPENDRLAIAEILFAFLNRDYALIAKVHHRIGYIPSDTNLEY

FAQSCRAIAEPIIGLAIKEVSIARLLSHLFKVTEDFGMETQPQLLLLQKTMVVVEGIGQS
LDEDINMWQLAEPWIKKWAANKNITPEAKILRAVKKIINDLLDRA

>gene_513|GeneMark.hmm|269_aa|-|10995|11804 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
VDEKDKKDEKTFDEKSLDGKNLDDKKSFGFEKVTSKQKRSLVDNIFSDVSAKYDLMNDLMS
LGVHRLWKNEFCKMIPNLDSKIIDVAGGTGDISLRIKENAKNQNKDPHIVVCDINPDMLE
VCRARAIDNNILTNFDILTCDAEKLPFPDNSFDYYTIAFGIRNMISIEKTLAEAYRVLKP
TGKFLCLEFSKVQNDVVRPLYDFYSFKLIPSIGQSIANNKDAYKYLAESIRMFDPQEDFK
TMIQSGFSDVNYKNLSFGIAAIHYGFKN

>gene_514|GeneMark.hmm|265_aa|+|11905|12702 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MSFKIVTWNVNSIKVRLPHLLEFIKEHDPDIICLQELKCQTENFPSEELSHLPYNLYVEG
QKTYNGVAILSQIQADEVKTSFPNNPASEQARFIEIALNTPMGYGRVICLYAPNGGEVDS
DKFSMKLKFYDAFTDYIEQIKSFEEKLYICADYNIAPFDIDVYSPQKLQDSTCCTTYVEKQ
KLRTILNSDFVDSFRAKYPDKQEFWSWWDYRGGSEFNKGMRIDTISSSNAISDLVDCTI
DYKTRGKHKPSDHAPVIAEYLSEAK

>gene_515|GeneMark.hmm|224_aa|+|12834|13508 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MNNKLLQFLCIIASFAQLFLCANTIADEGSTQKEPELGKVEEALGVKRGECKNPPCSTD
IDSLIDRLMVEDVKKQESLEMLRRLKEKNKKNKFNLSLVEMNTAKIMVLNKITSKSRQETL
KLREVAFFGNLSIELHRCVKNTDPLNGNSLMLLTILDNHLEDDNLSVFHGWVLSNPSIS
TLEHAIYEIIPDCFMVEEKRPVDPEDDEEPLDLDRGKPLDNNNN

>gene_516|GeneMark.hmm|207_aa|+|13624|14247 >NVVL01000012.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8430, whole genome shotgun sequence
MHRLEEKRFHIDSIEENIKNQAVPIQSFESAAPLYSKVTLTSGTFLTDKSVYLYGRRSAS
PEKDGYYLLTPFAADNGEVYFVSRGWAPQSVKDKMEAESYTRKTIEAMVMSGEKKNFFVP
ENDQKNNIWFTLDLDMAKKLLRVSVADFVLMQINSQNLPGKAKPLATTYLNKVHNNHLEY
AITWYSLAACLFVFMFIYGRKPEESST

>gene_517|GeneMark.hmm|510_aa|+|2|1534 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
LLEKCVNIVESQYGKNSSERARILHLFGLIYYNLFDYHKAITVFKKVVIHKKTIFGTGSL
KFNESLLHLAMISSDIGQHFKATELLEPAITVIQNHYGENHVKTADALMHLAKALYAVGN
YARSEKLLRKALSLYTDSFSSEHLITAEVYHIMSSYRQKGYKESIDMLNKALKIRRE
YGDNDNLVAELKVLAHAYRHIGEYNTALPLLKSAISVYKNKYGINNMNTAWAMTYLGH
FWDSGKINDSIQLLTQASEIMTKNYGEENLYTAWSFRLRGYILTATGSYDKAREFIQKGY
KIYGKYYKYPHIEKAWSDAYIGSFYNKTNKLTALSHLKKALEIYQKQFGKNHKRTNWK
IMLADNYSRRGDFAKALKLSEEAYESYRLHYGEQHSKTALSQAVGRIYFAHGLSKGEKL
VRESLKILESQNSSKLYSTFSIMADIAFKKAQTHKRNGKMIKAQHYYRKSQEYLDQSLKI
AKRNLLSDSEHIKFLEQSAKLASMNFLDN

>gene_518|GeneMark.hmm|324_aa|+|1554|2528 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MWSKIVKNLIRAAICTLFGISANATTLNPNIIITHNVGLSSVDM EHEIERVQHQDNLLFSV
EKTLSLLAQLNEFDLGCFLLRNKGLNGYWTSYLILQDKGQFDSPLEDWLIKKAPTVLATR
ERFYIFQDKAKSIIESKSSNEQINIASIPCGVLSDLLTMKFQTKAKVKFTGIDLDETSIK
MAKINAENFPKMHQTQILKRDAWNLGLKDEFDIIMSNGLNINIEKDEDRLVALYKEYKSL
KTGGKLITSFLTYPPAFSKDSPWKNVILEDAQKQIALFRDILGAKWMVYRTEKEVRQQLS
EAGFVVEEVIYDSKHIFPTIIAKK

>gene_519|GeneMark.hmm|124_aa|-|2730|3104 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
LENIKMKKLHKALENARHFGKKQFIGLKHKVGVSNDFQHG METVAEQVKHVNKLLSITED
NLSYLNRLVDYINDCIDRIVETLSNIIDILNEFFDDVLDN NCINNLDFFLEEAADILGEY
EISD

>gene_520|GeneMark.hmm|75_aa|+|3620|3847 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MGVDGSAECKAYSPAFCFGLRVGAHLERGEDVVELAKRDANPLVLDGECDEIRSSLLGV
LQETPICKFCADVGF

>gene_521|GeneMark.hmm|549_aa|-|3844|5493 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MSTDSESRYSQSLMAFNFPVSRDDAPQRARYNEYKEAISQEKLATLLCQGKTIKSLTP
IELAALISFAVSNNYIDEIARLVSEVGIDVNTLYRDVDYDNLMKSTDFVLSPRVSRVSC
LLYNAYRLENSEDAGRHFHGMGYVSKVIMGFNIDVSALSEYDKMLILEESMRYEDLADISD
ILRVELPELSVDNKKLLLILAITNIAPIRGILTLLGIEDINELSPNLISAF LHCASMHSI
LKYVIDTWEVKLQVFIDDVEALYLPDTHISFGFAPEMILSHLSYAEFLQIELKLQDYLL
HSSEHSVGRPEWLPNIIIEQRHLEQCLVKS NKVTP EINVYCSWRVVSFITQCIETKNLQAF C
QILTPRIDASSWNEEGDCTDHSLCVLLVEIAQCAMREEQAPQLLMLGGAVFDNMMRACKN
ACYYEDPYNERWDITLEMVINQVIVGEGGLS QLLLFLRENDVFAELNLLDSQDNLESISS
VEMRK FVELWEYSMQHLFFNQLLDQYLSCETNDKSELKNALLATSFGKIFQDDDDLSGSS
SGLCQSDHP

>gene_522|GeneMark.hmm|39_aa|+|6149|6268 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MAAGSRWTIEECFEMAKGEVGLDEYEVRSFRGIAVSHRQ

>gene_523|GeneMark.hmm|108_aa|-|6341|6667 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MTTEQTLAEEISEGLAEAIKFAKGEHVEGCVTYMFNDQEICPRDIRQSLHLTRERFHEWF
VCKVSNQRNWETGLRKPSEVTLAFYSMIKENPSQVYKMLHHS TIPKNG

>gene_524|GeneMark.hmm|72_aa|-|6673|6891 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
VELAESGKSDGKLNIEEKAVVLGLSTNYYDKKNVLFLLATYSKNKKEDLSAKEQKQISNL
TKELIMSFNQNK

>gene_525|GeneMark.hmm|355_aa|-|7489|8556 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MVSTIDENNTVHVQIGRLKGRDLAIALKSKEVVVALGDSLTHLDRLEGIYLAITLKSKE
VVAALGDSLTHLDRLEGRDLVNALKNKALVAALGDSLTHLDRLEGDDLVALESDAIV
VALGDSLTHLDRLEGYDLVNALESDAIVAALGDSFTIQIGRLEGGYLIYALKSKKVVVA
LGDSLTIQIGRLEGRDLVNALESKEVVAALGDSLTMHLGRLEGDDLVAALKALMAALGDS
FAEYAATLSQHKWYECAKDLNLPKEVMLAVHDFGEVNNWNPNILKTDVLRNFSSAPATA
IAIATATDKDLKLCVPSDLTQIIMS FVHLNCPQNDQVDILALEESDSGTGGSNS

>gene_526|GeneMark.hmm|164_aa|+|8704|9198 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MAIEIQSIKDLLTIVDNLTKTLEQLRKGDTLVVWKLDRGRSLRHLELINELEAKEIKF
RSIQDGDITSNSIQFFFHITGAFaelERNLIKERTKAGLAAARARGRKGGKPSLNKQQ
TQMMELEYQARSASIMEICDQFKISRKTFYRYVEKAKIMADANP

>gene_527|GeneMark.hmm|1212_aa|+|9754|13392 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
MSKSSNVGAEQNMPAVVFNKAFWYQGHVIVKLWEKYLTskNDSISFLSARDGEVAGEDNV
SSLFNGMSLNYNFAIVLQGNLYRNSSDQTITLCGEVADRDVASITRRMEAIIEQIRSYN
QSHPEAAITNHIIIFPYHRNPGHWNLTGVELTFTSNDDNDEQINARISYEPFGGVSTGY
DHLASSLSDLNIVFEQNKLSATKQYNGTSCGAI TAENAKLFLAQSLDDQSGDLLERTYK
AGAEELRRQHIAEIDDKAFNQTQRDNQAYAVGGDRSIEEAHTATQSLADLIAHADRDWVK
QAIRHLLNSEDDNIRRDNIDLFKQFLLQQYNEDDQYSKIAGMLLEADGRFKEGAMDVIA
AVVFREDNSQFPTFSATNSSARHETTvtLESSDYDNLDEAKVILDSVKKVSLDDLIIQ
GTYSFVPSKPTARALFKNTDTEETIIFGASDNLLFYIASLENGFEVIPRIAFGIRKVLDS
HGNNILHHAVFRQDLNLVTAILHRAMLDGIISDLVNRNHDGTNPLGMAFLSTDSNNLGG
IKIATIFAGIFAYDITGYLNNKVHMDYTTSTTIGGTTLLHNVM LAASKCKGQEFKALSE
FFKVLSKRMHDDKDCFNPNYPTMNPGLGELENGKKLDSKKLDGHMISSSKLLELKFQSQ
GIKLLCKKYFD FILASYEVDQFDDDSGDSADEDSPAYTYKQMLLDFNRFIGNSIKGHTR
KSHANFQRTFDAYDSDFAFFSDAMEGLSITEDDPWNNFWLKLNSISADSTESA EYKEVID
SMYVPLFHGVPFMHSQYSNFQRREVAKKIFAINRKLGRFDDSMTEVEYTLTPEEEILIG
IHSRTATASAGMQSLYEIMVASPEDLQRLNTIDENLWGYFNHDLPKKFKIAMKD YVFN
ASSPIRGFWENNNNDGAPHSDELPPSDDEIVKYRFPVIATSKAPDHAIRFAIGNVEAA
RGEIRMQPEYIDGFPTHRLAGLLYVTMHKLSDLLEARGNHTMIDVNRRVKSGDIDIPTEN
IEKDPDFLRFKNQLECDFLGKISSDTVVAVIPVIYPNIHDGDFESGYHEAVFGLNSSAT
RIYVTSPVKIRGDLNQP NPKIMSGSSNIVGFGKVIPTMVALANGILTAIAEKYGYFLC
AIRDDNELVPYKVKFDERKKKGAGQLSEAQLDIKNSGDIPQAIRLWQSIADQTEEDSDVA
EIGSMLSNAHID

>gene_528|GeneMark.hmm|106_aa|-|13615|13935 >NVVL01000013.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8708, whole genome shotgun sequence
VINAINFSEKGI AISVDREKYFASF AIRDEGKGIPKTEIYDIFTPFKMGSNTESKAAGR
GVGLALCKAVIEAHDGEIKAESRPV GALFRVCLPYAGALQNGTKSF

>gene_529|GeneMark.hmm|158_aa|+|494|970 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence

VTPSSLIAAKASPRCLKNNYKIHMFNISPLQFYTVLGLLLFSFLSTPAYANGGVQTTLET
DEAPGSLGDIPESDFFEFQDEPLEGPLTLPDWFKLSFLELSNDIIDLKENNKNGLIVYFG
QKHCAyCxAHLEHNWQAPFIVLFLSKIDKKRQYHIILL

>gene_530|GeneMark.hmm|380_aa|+|985|2127 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MNKQSGKYLTQKIGGEEYKAYIPFKLPPGGGIDLQKLHPYLEKATCAIAELNGAAKFLPN
HSLFIYMYVRREALSSQIEGTQSSFSDLMLFENDQKPNISLDDVEEVSNYVKAINYGLE
RIKNGFPLSLRLLREIHEILLSGIRGSLKSPGEFRRSQNWIGGTRPGNAFFVPAPPEQMM
DCLYDLEKFLHDDSVPTLIKAGLAHVQFETIHPFLDGNRGLGRLLIILLHAEGMIESPI
LYLSMYLKQNRETYYSLLQEVTRGAWAEWLEFFLQGVIAASKDGIQTAQEINALFKADF
AKIESLGQIKFSCRVLEHLKHLPOISVRHLSQTLAITPPTARNCLNKMVSLGILEETT
KKRDKIYVYCKYLTLLEGEV

>gene_531|GeneMark.hmm|271_aa|+|2400|3215 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MFLIIGKVIVMGDIVDRKALKYSTASGEKNISSPKEPVEGYDIWESGKVVGSIDVWWDSD
QDIQRSLADESNSDQVLLILLDRHNIISGNIEYVEYFLGCIAPHSISPYANLVMYSAK
SEEMQKYLLEYCEMHKLDGRKKLFAYFLCKSLLKNDIESAKSLLKHCGDNEIDYVPVLD
IWNILRYTPANGASSLDYSLAVDAILYILETHADFLDYTQTIIDVKRYDGVLYQKGL
LEGQVLENSSEWNNESSEMVGGSTESMESLD

>gene_532|GeneMark.hmm|107_aa|+|3592|3915 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MAKEDKADGFEPWIMGGFLNILDRDISTKGYPSGMSNEDALLFLLKGDNLSPETVQFFN
GLVDQSPESNDERAHFILFGENSTEVRDVELEPEPECNFDWSFTDF

>gene_533|GeneMark.hmm|792_aa|-|4068|6446 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MIFTLWLKQFLDQATLEQITNTLTMTGLELEDLVDSKELEAFKVAKIIETEPHPDAD
KLKLCVKVETDSKTLQIVCGAPNARAGIKVVLASIGTVIPSGNFKIKKSQIRGISSGMMC
SADELNIPGDSSGIIELPDDAVIGDAAAKYLGLDDPIIHINITPNRADALGVYGIARDLA
ASGLGLTKKLGNEPFEFQEFETKTTLNVRGSEACPLFAIREIKDLENKESPTWLKLLDNI
GVGSISPVVDVTNYISYSFGQPMHAYDADKISDNIIIVETLSSDEKFKALNEKEYELKTGD
IVIRDEKNIHCLGGIIGGENSACDKNTKRIILEAASFDAEHIAKTGRRLIIDTDSRYRFE
RNVDFREFTHMALDFATDLILSICNGVASKMVSSGDPALPVRTIDFPAGFLESRTNISLAP
QEIEDILCKLGFICTNIGESIKITIPSWRYDVSIEDIVEEIVRIYGYDKIPETPLPEAP
IARIIPRDQRRVSDIKRLLASSGYDEIVTWSFMDSEKAKSFTTIKEELTLLNPISDLDY
MRPSILPNLLRVANNINRSFHDLSLFEVGPFIEDTGHKVITHASGIRTGNIAPKNSHEA
CRVFDLFDVKADIAAILESAGLDINKCQIRQNAPDYHPTRSASICLGKNVLYGQVFGVHP
LILKEFEIDADVIAFEMNISALPFGKEKYGKKPELVRSYQAITRDYAFVVDKQDPVGM
LSFIKNADKKRVKSVNLFDIYSGTHIDADKKSVALSVDIQDDAKTLTESDIETINKAIID
GIEKKFSATLRG

>gene_534|GeneMark.hmm|346_aa|-|6443|7483 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MLEEILQSADEKINSKSKELQDIKVEFLGKSSLINQEMKKLGKAAPEERKELGQKINS

VKQKIQELIDAQSILLQKKEFTERFASEKLDLTPARPRATGSIHPITQAMEELIQVFSK
YGFDIKDGPSIEDDWYNFTALNIDENHPARQMHDTFYLKTSSESKLLRHTHTSPIQIRTM
QNEKPPYRFIAPGRTYRSDSDMTHTPMFHQIEGLVIDKNIHMGHLKHVIIDFIRSFEEQS
NIEVQFRPSFFPFTEPSAEVDIRMNKDDKWLEVLGCGMVHPNVLKNVGDPEEYQGFAGF
LGVERFAMLYGIKDLRQFFEGDMRWLNHYNFKTLDIPTLAGGLTR

>gene_535|GeneMark.hmm|87_aa|+|7742|8005 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MVFSKVVFNENLVTQLRLLIIMATGTVKWFNNTKGYGFIAPDDGTDKDFVHISALEKAGM
SGLEDGQKIKFEVVNEKGRDSAGNLEV

>gene_536|GeneMark.hmm|38_aa|+|8601|8717 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MVFLLRAIRDQKSYPTVAAALEFLRLPALSDTDYD

>gene_537|GeneMark.hmm|413_aa|+|8790|10031 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MEKFSEAGIPEPLLHRLTEMGFTTPTPIQAEAIPIHALEGRDILGSAQTGTGKTGAFGIPL
VTHLMNNAKGSALVLLPTRELAVQVMKALEQFTGRGKISTALLIGGEDMQRQYRQLNAKP
RLVVGTPGRINDHLTRKSLKLNDFLALDEVDRMLDMGFGIQLDAIAKHLTAKRQTLMF
SATLPKNIQKLSAKYLNDPVRISVGATHAPAANVKQEHVKLTDSEKYPRLLEISEREYS
IIVFVKTKYSADGMAKRLKNGHKVDALHGDLRQNKRSSVILAFRQQKYRILIATDVAAR
GLDIPHIQHVVNYDLPQNPEDIYHRIGRTARAGAEGNALSFLSPADGIKWRAIQRLNPD
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>gene_538|GeneMark.hmm|402_aa|+|10600|11808 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MIDRKVRYLIEKALSRQPAVAIIGARQVGKTTALDIAKGRSLYLDLESYIDREKLQDP
IFFFDQYPDDLIIILDEIHRMPELFQTLRGVIDSDRRKGKKTGRFLILGSAGLDLLKQSGE
SLAGRIGYVDMTPLTALEIDPNDVVKLWVRGGFPESFLGSSSEDSFLIRKDFIRTYLERE
IPQFAPRFPVETLERLWMMMLAHCSGGMNLSSKLANLSISTKTVSFYIDLLVLDLFRRL
KPFHANIGKRLVKAPKIYIRDSGILHATLGITEYNALAGNPVIGASWEGFVIENILSVVQ
AGTRASFYRTSAGAEIDLVEMPNNDIWAIEIKSGLTAKPSKGFYNAIEDIKATHRFVVY
SGKTQYPISENIQAISLIGIMKLEATSAGLKDPASSAFGGG

>gene_539|GeneMark.hmm|613_aa|-|11961|13802 >NVVL01000014.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8750, whole genome shotgun sequence
MKNKDQPFREQISFEISDLETYVEGVAHDAEITPLANWMTLKSQIYTEGLKEFHVSLNKT
PPMTIEQIREQHSKALLHDLEMITKRQALVEYNIPPFQEAIFYKEINKPNDRSEEYNNFVI
ACSEIQIDAHFIERVSAQALLKLNENNVTVKILQEHDRELSNYLEEHKRETARDLSRTA
ILLKTENGMVRGSFVEEIMTSKEINLTGEQREFIISWQQGLFDLGWAASCVSVLHKAHP
DMENIWGMDTPRDRTSIFIDTSDGEVKILNRSKIILRSQDDPEGELKPYLEM LASVNITG
LTSNEFIPGCATAPPEIRFDINRINENLEFTIPENLTLKTSNPLDAYTRLRKDTIEEYF
DSIKNDRPISSFAWEGLKNIMGDAESIKYAATHIHPKSEKLLKATLLKINILADEASNHP
VNFSDLSTASIAFCSTESDKEKQEEFTSKLLASCSTHQITITLGDREIDSMEEAVVSIMT
PLLDYSNEDSLRKNNAKIIRESSSKLGIKFSWSQRWEQLKDNTSNLFTTLTGGTNSAHEF
MHNPENARIIQNINASLSKRSKGFPHAPVTTPPRKRFEPPHPPETKPPVEVSPNPPTS

VVHKKKTNSGRKH

>gene_540|GeneMark.hmm|307_aa|-|3|923 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MKHIHIQDCVPSLFQEAPPADKQLTDAELAGAVVAARGRGLVFSMACQQNETPEHDFLK
EVNVLIRAEYKAAVKWCMSHGTCGVSGETLDWVAELATIFITGNNTRHVAKSFHPYREIY
NPGEEAQIFALFSEMENSPPGELISKFLKIFDVANAAQIVEAVIDSIAADEDLASIIRAG
LSNAGDDEITHGLVEEIIIKILIYSQSDSTIRGANAYLLQQVIEKHPTCADGIREVYMAQ
EAMHSAAANMVPYLQEPLLDNKQLADAVVAARGKGVFFTRAYQDIPPIELGSWTEVNALI
RAEYEAS

>gene_541|GeneMark.hmm|91_aa|-|1113|1388 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MAATGRDALRMLAKTEYNLIFIQKTPDIALQIRSETELNREPAIISVLIPRTPVKQDPK
YLDAGIDYVLENPLIGDKIEEVLEKFGGG

>gene_542|GeneMark.hmm|115_aa|-|2207|2554 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MAVKIRLARGGAKKRPYYRVIVADERAPRDGAFIEKLGTYNPLLKRDEDRVSLKADRIE
HWLARGAQPTERVARFIKEAGIKLPDSILKKMEIKQKAQTTKPSKELKEQAKAK

>gene_543|GeneMark.hmm|57_aa|-|2566|2739 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
VSKKKSKNLLVKLSTADTGYLVKKNPKTLTEKLSFRKYDPKVRKHVEFKEEKIK

>gene_544|GeneMark.hmm|505_aa|-|2855|4372 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MLLRSGIVIAFFTMLSRFLGLARELFIAATFGTSGIADSVNVAFKLPNLFRRIFGEGALS
AVFIPMFNEKLITSKDEALKFSGEV FALLLLILTVLTIILQISMPYMMLIAPGFFNDPE
KYELTTTLCQITIPYLIFVSITALFGGMLNSVKFAAFVPIIMSICVIGITYVFQEKH
SPHFSVAYALVIAGIFQVAFMYVCLKRAGLTFPFLFHPKDREVKKLLKNMGPATLGSGAQ
QLNLFLSQSIASFLPGAVSILSYAERLYQLPLSLIGITFGTLLPELSRIYKQKDFAKAN
TLQNSIKIALAISIPAMFGLFVLSAPIIHIIYEHGAFTPADTALTANALAAFSLGLPAF
VVAKIITPIFYANLDTKTPLRITVYSLNLTILNVILMIPFGHIGIAIGSSIASWFNVWM
LARHSGKYGGFKIHPDIKLSAKIVLSSCMLASIVTFNYYYGYLFYSKSLIKASALTG
VVVLGVFVFLSSYFLKIHTKLLER

>gene_545|GeneMark.hmm|55_aa|+|4371|4538 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MSFKFMFLESVSNLVFCTIFSRNQGISRLFLEGFLGKMDGWMVIAIKIRSLSL

>gene_546|GeneMark.hmm|68_aa|-|4670|4876 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MTTGIVKWFNPTKGYGFIAPEDGSPDVFVHISAVESAGFNNLNEGEKLEFEVSDNKGKQS
ATNLKSLG

>gene_547|GeneMark.hmm|303_aa|-|5049|5960 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MQIRIGTRKSKLALIQTNMVIRVIERHFPGAECIIVPMVTTGDKITDRNLYDIGGKALFL
KELEEALLANEIDLAVHSLKDVPGILPEGLLVAAVLEREDARDCFISADYKSIQELPHGS
VIGTSSVRRKIIIQQERPDCLKLVQFRGNINTRLDKLKNSDIDATILAAAGLIRSSLFDPA
YCHMIETSQMLPAAGQGIIGIEIRDDDALTREICAKINHLPWSVAQAERSFLAYLDASC
RTPLSAYAVLSGGVILARYMLSDDDGRFVFHHEEEAEEEHASDMGESAGEKLLARLKA
AV
MQQ

>gene_548|GeneMark.hmm|318_aa|-|5997|6953 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MIKFDREKDKVAIIAPASGANDDDGVLDVEKSMEKLGVAMNLFQNAAGFRCEYDDKIFAGD
SLGYFAAPRAERLRQLKNALEDPEVKIISAFRGGYGCSEIVFDCLDVNPSGAKILIGFSD
ITVLHFLFNQHYNFPSIHTLVNDSYKHMFGDVLSVLSGGDITLDTPLNDAATSATDALV
PSTTTAISAPAI
SAEMLGGNMTLICSLLGTLKHPNISGKILFIEDVNEKGYRIHRSLMHM
HNAGLFKEAAAVIFGDFTKADKHAEATLRVFSAEYLGIIAAYKTTGIGHGRVSH
PITIGG
SGKIEGNQLVVSSSFELI

>gene_549|GeneMark.hmm|604_aa|-|7026|8840 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MTDHKFIRNFSIIAHIDHGKSTLADRLIEFCGGVQKREMSQQILDSMDIERERGITIKAQ
TVRLEYKAKDGNIIYHLNLMMDTPGHVDFSYEVSRLAACEGSLLVVDASQGV
EAQTLANVY
QAMDNNHDIVPVLNKVDLPAAEPDQVKEQIEDVIGIDASNALLISAKTGLGIEDVLEAIV
HRLPPPKNFVEKESPDALKALLVDSWYDQYLGVVILIRVFGSLKKGMMKVKMLSTNKTY
NIDNVGYFTPKKVMCDSLEQGVGFFTASIKKVTDCKVGDTITENGEEVQMLTGFKPNLP
VVF
CGLYPTDASEFETLRDSLEKLHLNDASLEFETETSTALGFGFRGFLGLLHLEIVQE
RLDREFDL
DLITTAPSVIYKVNLTNGKQMEVHN
PADFPDVQTIDS
IHEPWIKATIMVPEE
YLG
SVLALCTDKRGVQVDMKYIAGRIMLIYRLPLNEIVDFDYDRLK
SCTKGYASFDWEMD
GYEVS
NLVKSILVNSEPV
DALSTIVHKSRAESRGRDLCNRLKDLIPRQLFQIAVQAAIG
GKIIARE
NVKAMRKDV
LAKCYGGDVS
RKRKLEKQKAGKKRMRNVGNVEI
PQSAFIAALR
VGDS

>gene_550|GeneMark.hmm|351_aa|+|8976|10031 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
LGGLFDPVSLKQRLDELEEISLDKDLWNP
KKASTLLKEKS
LLEKTLGLYNHINDGLAEN
IELASIA
EEENDTKMADQIQKDLEAIAKSAEKFETECLFSGEADNNNCFLEINAGAGGTE
SHDWAL
MMMMRMYMRFGERMGFKTEIINIINGEDAGIKSCCIKFKGDMAYGWLKTESGVHR
LVRIS
PFNSAGKRMTS
FASCWVYPEVDDNIDIVIEDKDLRIDTYRASGAGGQHVNTTDSA
VRITHI
PTNIVVQSQND
RSQHRNKA
EAMQMLKARLFDLELKKKTEESDKQNAAKTDNGWG
HQIRS
YVLQPYQMVKDLRTNYETSNSAKVLDGDLEKFVSASLAANANKING

>gene_551|GeneMark.hmm|443_aa|+|10090|11421 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MKEKRIGIFGLGVTGESVFTTLDGADKVDGTDKEIICWDDSEDNRRNFQTKFEHSTLAPL
SSPEW
SKLDTHIISP
GISKLHEVFS
LAASHNILISSDVQLFIDNNP
DSELIITGTNGKS
TTTAL
IGHILTC
SGIDHDIGGNIGPAVLSL
PKNKYYVLELSSFQIDLLK
KFEP
AISVLL
NLTPD
HIDRHGSF
DKYCAAKARIFDNDGLKII
GTNSDKSKELYEKLKKTGDKK
VIPISSD

EGINCTSDTITDNFFDRKSYHMETLVNLTGVHNCENIAAAFAVCRAMGLKAGEIIQHIKS
FGGLKHRMQLFNGNIENISFYNSKATNTNSAASSISSLDNVLWLAGGVFKEDNLKPLGNS
IKNIKKAYLFGESKLLFAEYLEGIAEYKIYDNMEKAFYSAVRDAKIEGESANILLAPACT
SLDQFKNFEDRGERFIQLFEAIK

>gene_552|GeneMark.hmm|371_aa|+|11422|12537 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MYGFGKNNFVQRWWRGVDQQLIIALTILIAFSLMLVTTTTSMIAIEKIGLRDNYFSLRQVI
YLFISAGLLILFSSFDKKWIKRIGILGFLVSIVMMILIKFYGYEVKGARRWISIAGFSYQ
ASEFLKPPFWIVTGWILSLKYHEDFPSFTVCAALYIIVASLLITQPDFGMLVLVTAVFGT
QLFVAGLPLIWILFASITGFLGVISAYLLLPHVASRINSFLDPSESNYQVSKSILAFEQG
GLYGKPGEGAIKQYLPDSHTDFIFAVAGEEFGGIICMIIVLVFAFIVLRTLINLRTEFN
KRVQLAAIGIITQFGLQATINMGVTLNLLPTKGMTLPFVSYGGSSTLSIAIAIGMLLGLT
KKQALFSRNRM

>gene_553|GeneMark.hmm|376_aa|+|12628|13758 >NVVL01000015.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_8784, whole genome shotgun sequence
MKKEKTILLAAGGTGGHLFPAIALSEELSKHNSNILECNILECNHILITDLRCKKYLTPK
LPFAHIVDLHLNNGIFAKLKSARKIVAACYRSFFLIRKIKPDVIIGFGGYPTFPMSLI
CKLMHIPIIVQEENSILGKSNHFFAKSALKIALSYSNTSNIDESFKSRICISGDLIRSSI
LKLAACKGSNAKKFRSKRFHIFIVGGSQGARIFFSELIPPALALLKKQHPGADLFITQQAP
KTEQPRIEALYDELNIKYELAEFFHNISEIYDKAQLVIARSGAGTIAELAATGLPAIFIP
FPSAAQNHQYFNAKSIEDMGAGWCFVQEEVSAPILAALKSELLEDRLLEDASRKLARK
TDGSKYLADTILKIIQ

>gene_554|GeneMark.hmm|726_aa|-|1|2178 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
VFGILLTGKCRYMLFDIDVIIVAAFLIATLVIGLGHGGDVKTIKDYALGGRNFSTGALVA
TVVATWISGSGFAITISRTYYDGLYYLVATFGMMISFLITAFYFVPRMGEFLGKTSIADA
MGDLYGKKVREISAISGIIASAGHIAVQFKVLGDIVSYFTDSNSTLTIIVAGIAVTAYSA
YGGIKSVTFTDVLQFFTCFAIPLIGMMIWNKLYLVDSFNMSHALQIDKFNYEKVLDLKN
HRFWEMIPILIYFSLPGMKPSLFQRISMGNLAQIKKVFIISAFIIFVKIAIAWIPFLV
FNANPNIEQQQLFGYIVDNYTYTGLKGVFVICVIAMSMSTADTEINISSVLFANDACSGF
QISPKRLLLSKIFALGLGIISTFVALSTADLLDIILSTASFYMPIVSTPFMLTVFGFRS
TGKSVLIGMGGGFITVVAWKAMGIQANPIAIAMLVNLIIFLMGSHYLLGQTGGWVGIKDRS
FLEKQKDENIRKRREIFEKLTFFNFDFCKKYAVASNITYVGLGIYFVFTITTMYSIEA
TLLQGRGQIIFAIYQIMMVTGTAMAMYPIWPVSIKSSKELIIQTWWPIAIFYMLILFST
FFVLVNKENHLQFVIFAINMIIAIVLGWRTASIFIATGVYLSVQFYKYMGIDYIDISI
GSPQFVLMYILMLIGTVTIIFLKPQQEHQKQTEHRVGELSDEVTLVTVVSSRDSQIITL
DTKVSG

>gene_555|GeneMark.hmm|81_aa|+|2218|2463 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
LHKCEHASTNNDPRYSRKLGLDGGFSMPQTLDDYNSKSFRRGRELSSFLQLFEAAHAVRR
GIYPRFQGGKSKIRGILGLRT

>gene_556|GeneMark.hmm|222_aa|-|2567|3235 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MEEEQRYSKLNRTFARRIGKSLSNLKDLLSGELPKYSYSSEKLEANRAGKKTFFLEIGF
GMGEHFLSQLANHPDAVHIGVEVYLVNGVANVLKQLEHNCAELMLWPDDIDLVLVLEDMPEAS
IDGIYVLPDPWHKRRYLKRRMFNKERVASFGSKLKAGGFIFASDIEDYFDSACDILRE
DAGFVIEGDDFSSEHAGYVQTKYHQKAIREGRRPQFVKAIKR

>gene_557|GeneMark.hmm|277_aa|-|3328|4161 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MTDKRDRAAKWFETLRNNLCSAFEIEQDFARDKDISPEKFKQTPWNREGGGGGVMSVMH
GNVFEKVGVNISTVQGEFSEDFRKKIPGGEDDPRFFATGVSLVAHMCSPVLPAMHFNTY
IETKKGWFGGGDLTPMYEDAETAQFHESFKTACDKHDEGYPRFKKECDEYFYLKHRK
EPRGVGGIFDYLSNNFEDDFAFTKDVGLAILDVYPKIVKNKMHKPSKEEREHQLIKRG
RYVEFNLLYDRGTTFGLSTGGNVEAILMSMPPEVKWP

>gene_558|GeneMark.hmm|111_aa|-|4204|4539 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MKSFRLGIFAELYAMLLYAVRFYGILHHRMKTIVGEVDLVIARGRQLVFVEVKARKNGIC
EGIVSSSQNRITKAAELFISRNSRFAGYDVRFDLVVIEPYKWPVVIQNAW

>gene_559|GeneMark.hmm|423_aa|-|4555|5826 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MNKRRSIFLSAISGNVLEYYDFTVYAVFSLAIGRAFFPGDSEIVQVFSSLAVFAVGFVTR
PIGGIIFGYIADKHGRRVSLITSM LGMTIPTFAIGLIPDYSEIGHYAPMILVMMRLLQGL
CISGEGAGAAIFILEHYQNLRPGF TAGV VHASNIAGTLMATLVGIALATFMPDSEFAWRF
AFILGGVMGIIGFYFRLRVSETPIFIMLAEKKTLKAPFIHVIKTAWRSMLITFCLGGFA
SSVVYLIKTYINIFHCNVLHFDDVTARAF LAYSSVIMLLTMPLSGHISDSIGRFRTITIS
SIAVLV LALPCFMLSCTDMLRQMLALTMLAVLGGMVAGTAYIFIISLFTPEQRFSGVAF
SYNLGIAMFGGTSAAISRWLLEVTGLHYAPAFYIMLTATMFLTATYFLRHTIRELLDANL
KNK

>gene_560|GeneMark.hmm|219_aa|-|5947|6606 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MSVSKIGAGHTHAAEDIQVEHDHIPANGQAEHRLVHPRVAVLHNPLHTFGLDLGTVTLLS
MYTAFSSGTLQQQIDRLVESEEDVVIISLFENAVDNIDSPALKYLLPCIEANPQALGYII
AWIDDYGHGDFSVLSRIRDNSSDPSGVGAHASGKLAVMHMEALQEEKFDMLVDLLRLVVG
ATDGVDSPTLVKLESELPEDPPIAIAAGEALIESTDTPIN

>gene_561|GeneMark.hmm|401_aa|-|6806|8011 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MVMFKDLNPISVFLVIVYPLTIITLAVLYALNNSLGFELGLFFAGYYISTISVGVGLHR
LWAHDTFKTNKFVFLVLM LLSAGTLQGPVLSWASNHFHHTYTDTEKDPHTPLKYKSRVK
GFWWSHMGWMLYGTGSYQSVNRVTMLKLGKNKLLRWQFKNYWQLGLLMNLVLPFMLGYAI
GGNLTSACAGILFIGVGRALQQQTFFVNSLCHFAGTHKYVSGTAGDVWWLAICLLGENW
HNFHHAFPSDYRNGSRWYQFDVHKWIIYLLSKCGMAWDLKVTTEVRINAKMTQAAKALS
LQTEKLESLNKTINDLSVIHQETLEKLELSSVKAKIKLKSFAKMQENIKTLKLQLDQQF
KELKAPISDKVVS LITKKARKLESAMQKLCREFEQSNMQAA

>gene_562|GeneMark.hmm|250_aa|+|8364|9116 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MAGHSKFKNIQHRKGAQDKKRAKVFTKLVREIITAAKIGGVDINNNPRLRTAIVGAKSQN
LPKDRIEKALAKASDPSDNDNYTEMRYEGFVPGGIAIIVETLTDNKNRTVSDVRSFTKH
GGNLGESGSVSFMDRVGKIEYQASIASADEVMESEAIEAGADDAESTDSEHIIYTNVESF
ASCLEYLSDKYGAPLASEIEWRPQNTIMLEDLERAEEKLLKLIDALEESDDVQSVFGNYEL
SEEIFNKLSS

>gene_563|GeneMark.hmm|246_aa|+|9127|9867 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MNKQIIILAAGHGTRMKSNIPLKVMHDVDGKPMIEHVITNCYKASDDLVLVHSHHLQPYLD
QFTDRCKLANQKEQLGTAHAAAKDLFANEKYIGVIYGDNPLITDEIINDLFTHLEQGT
SKAVTLAFEYAKPNQYGRIVTDAEGNFERIVETKFANEEERKITLCNSGIMAFAPGILEE
YIDKCLAPNPEHPEREFYLTEIIEICSLAGEKVSYFKSGNPNLVVGVTQDELVNANSII
QNHKEG

>gene_564|GeneMark.hmm|923_aa|+|10011|12782 >NVVL01000016.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_9413, whole genome shotgun sequence
MEKTAEEKPVLIIDGYGFIFRAYHVQPPLTSPAGAPVGALYGFVSMMLLKLINDFKPEHAV
IVLDHGGKNFRHDLYKEYKANRPPVPDDLIAQLKLVRTAAEALNFTCLSKQGFADDIIA
TLATKATSIRNALIISDDKMLQVNEHVRMYDPAKAKHLTDEDIFNKFGVPPSKVREA
QSLIGDASDNIPGVAGIGVKTAALLINEFGDLGDGLASIDKIKSKRQQNLLTEYRDNALL
SWKLVGLDCAVEIDQDIENFWAPPKAEIITAFLENYGFKSLNKRIENLFNIKSLPSAQ
ESKANKQRPERANITQGSIVRIENPAQLEPLFKEIEICGMLAVNIHQNGTEHELVLGAGA
DLYIVPYIAESPVALDLFSYTNSSVFNPNFKQIHELLENKAIKKITYNLKELLKCDCK
IQSAEDLQMDYVLSAGGKSKNLAEIIEFYTHNKP GDNGTNQPSAETSEPGDLATSNLG
KKTGKAAGGGGASITSYFIACYKALDCALIQDKTLYLYKSIDLPLCHILRNMEKEGVKI
NTQHLVRLSGEFAQKISKLEKEIFAITGKEFNIA SPKQLGQILFDEMKL PFAKMTGKTKS
YSTNAEILEKLQDDGHKIGGLLE YRHFTKLKNTYTDALPKQTDPRSGRIHTTFLQALTS
TGRSSANPNVQNIPTRTPEGSSIREAFVASEGNKLISADYSQVELRILSHIANIEPLKQ
AFREN RDIHAQTASQVFELPLDKITPEIRRS AKAINFGIYGMSAFLARGLAISKQEAA
DYIEKYFKEYPGIQKYMSETIIAAKENSFVANMLGRKCF LPSINNK NHTLRSFGERAAIN
APMQSLASDIVKIAMIKLDQEFTKRSMKTKMILQIHDELIFESPSDEVESATKLIKSI ME
GAFSLDVNLDAGISSGSNWREIH

>gene_565|GeneMark.hmm|75_aa|-|115|342 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MSSRKEEISVVTTSNKTLIVSEEIKKTVCS DIGLET LILNDGIGYVDRSYNKLTELIMPG
SATHLDCSSNQSHLL

>gene_566|GeneMark.hmm|263_aa|+|920|1711 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MHSSYYLTGEIEGKIYLVYNKNNIPYVLS DTS DGLVFDPRMTNPLELTISLSNNGMFIEL
ESGHLGSINNIATNVTNRELLLENSPNVNSDNSILSGVCYTISNSNGLLLSFQIYEPDLN
TLVDGIATEILKIGNDPIINLITNCIRFLPTYYIQG SCLSIDNTDMKSEKSWVTEIGTP

ILGFTNIDECKVGIKYKYCGRNIGCNLLCKGPCKNNTLCFYNNKVDGYSCSKDKGNDGK
TIIIIILILLVVSFVFLVIRRV

>gene_567|GeneMark.hmm|276_aa|-|1891|2721 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
LDFGELTEKITMDGYSTVTHNAMFWLDSKTEKKITKNIKYKFFYDASKTTIDTYWKRIIL
RMSKGSFPKWFSFYDGNLVYRHRKIHEQISITKLCPIICSVCEIDFIRSKTSMMSKMDKM
ELDSARKKHTNIKTWKCVKSAKFRSTLINDFIKRTVRENNCNCFREMKGGLYSLLNISVELK
HIGEEEDIVVDNRIDNIKGLFLSDDGFKITGTHEKQKQKPFIKSDIYMSPKHKRKNVKNV
KNIVDLWKDNMIKMCDDIQDGTIICENGNIPLILL

>gene_568|GeneMark.hmm|69_aa|-|2787|2996 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MEGGSVVILVGSVILLIYIIFVICYQQKKFIFSPYKQPKLENGFQPNGKVTKLTPIEKM
NRANRILGN

>gene_569|GeneMark.hmm|778_aa|-|3063|5399 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MLSEDKILNNAIAIAKGTETKALRILADSMGHSTTSYNDHKMAGIFLMECVLREGPKNIG
EYLEVMSHRLNKRTLSFMVSHSTIIDKELKKNYLVDLNFWDWISASILVRSYLSRPQYGSA
VFETPSIMRMRIAIQMCSHEGIAKVLDAYGEMNDKLYMPASPTMFNAGMMMSGQMSSCFIM
SSQDTSSEILDNVKYTSLVSKHNGGYGLDVSRLRHSAGSVGRSSGIIPMIKMYDSSTST
FGQTGKRAGAGTISCRLHHIDIVQFINVRSNEGSHTNRVFTVGTAIYTPWVFWERVRSNG
IWSMFCPNLTKSLNDIYGIDFMKEYERIENSNDVDRKTIKARVLLSMISESKRKCYPYIL
NGDSCNYKSNQKHLGYIRSCNLCTEIIQYAPEDEITSCNLHSITLPSHMKDGTDFDYSALC
LTAAMCVNNLNNIIDNNFYVLGDKTKTNLDNRPLGIGIQGFFDVVYLLDLLPNSNEVIE
LNKKIFACIYFSVLAASVDLAIKYGKCKGHDGSPMSEGKQLQFDLWAEYKLLKDNKLIED
SVRKEEDDIPLSPSEWGQLEIVLSNGEVIENTWESLRIFIKYGLRNTLLTTIAPTATSA
QLMGSCSEQVECHQANIYSRILHTGNVTVINKYMYRDLSDIGVWSNEISDLIKADGGSISK
LEAYVKSSIEDYENVIDMHLRYVVKKYKTMYESLQKFMINLMADRSRYIDQSSSLNIYM
GDPTTSDVTTAILYANAKGLKTIMYYLRRKAANKQPMITINSKIKTFVDGYKECLSCQ

>gene_570|GeneMark.hmm|356_aa|-|5462|6532 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MKPNTPDVFSRGYSVFLDSTKISSDDYITLMLIISKPDIPTYLSSLCTIKGDIPNDIYDK
KVIEYAKNKISEFVGYDVGEINTTVNSKRLYNLLKDIEHKKEWKSYSMLLKFFGIHSPCV
NVDMIKTLDRFGYDRKYRDYINVDKFTALYYMDRTHKNFANSLVMSYRGCEILPHQSEFL
VAVIKHGIVLQALELGLDWSFIEQMSGILKKSDTKKCNEQVSPGKGDGFSKIFNLPYGFA
MTVSFAYSINSWYALENKIRELEWKVLRIPRLGNHTSIIENSGISLYEDLCESKTLYSLV
NLLMSSKNKVHKILLYDIENELHKSFCIDIQNKTMSELSVLDMASELTNGGELG

>gene_571|GeneMark.hmm|109_aa|+|6519|6848 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
VLGFMSFYKFIFKLMSSKQSLILWAVIFAISYYVFRYKRIRNLSAVAISFFIALLVSFM
FYVPTTPTDIFESDGMNALYAFVASITYIFLIFYLLLKATSDVESPMESH

>gene_572|GeneMark.hmm|117_aa|+|7042|7395 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MGDVEILELTVGTPQFKDVKKHGDLVDFISWYPTFILFTMDSWNGNKLNGVVYCGKLVG
DNISFDNTLKFDPKYTNMVDWVIKSKSVLESKSQLPFEDDEVVYEPGYSSVVIDNDY

>gene_573|GeneMark.hmm|113_aa|+|7446|7787 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MTQLKDECKTFGIYSSIEALLLKDSFDPVDKVNKYMELDEMAMLSGLPLEHGNIYAL
MIHYNNTHEKSISVPLYNGNRLSPKRGMFSFLDDIPKGLILISLYLKCIDL

>gene_574|GeneMark.hmm|114_aa|-|7782|8126 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MSNTTETRWFKIFVSVITAFVVGISIANVVYYNRIRTGTCNAITRGEADAMFWINIIVSI
SSGLLFVWSLWRLVFSKDLRSQITHGISGHAKSERSGLERKHFGLTNFSSDEL

>gene_575|GeneMark.hmm|398_aa|+|8341|9537 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
LNQKVSNNKKELYIMEETQGSEFLYPSLEPTSKVGPKNLWHYTVLEARSKKHMVYNQIL
LLGDETSRGYYYVSNVVLGGSANNWKAKSGKFNSTGDELLGRLERHSYVYSPSLRIAGPR
TVITDIFREPGKFLPSGFDAFVYDSEIQETGGRYLKSUYKEIENKRDASKGEKIPESAL
TNASYLNEIHKALKAAKMGKSKSHKNSNKMSLGAKYMEIITINKTDEKKRTLDTVTKADW
EKSTGFLKRVKPVTDNSKAGAGSTYKQTIHISETQDNYERALETLIDDVNLDATVKAYI
KEHLDAAIRDWDWAKSRKGGKSKKVPKSSLSAPRAYSRVKTGRGPVKVDFPEVVVDFSE
SEEEDESEEDGVTLDGDGDSEEEEEVEVDEGNIFN

>gene_576|GeneMark.hmm|249_aa|+|9706|10455 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MNFVKGESDDMLMEATSTLSKYRNCDFRSTDSDEIYHVSPFVKLLEKYKRKIITLHLSSD
SYSNDMWLSNTSEILQYGCNTGISSDIRIYISYLYNLSSHENKKIIMLKLYRTLMAACKS
SFNENNIDDNDIQDLQKSIEYLQATKSPSNAIETLHIPS NKFDPKEMIENLLGSIGDLDL
SDPGQCMKTLMSMMGNMGIDVETTMKIISGMSGIDKGTESDIKEILDNGGEIKAILGAND
TDDVTDENI

>gene_577|GeneMark.hmm|145_aa|-|10436|10873 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
MSTKMVSLVSSIHRSADPRIFGPGWLWFAIHTLSFDLNEKSDELKFSAMLSKLINNLKCPKC
KKHAIAYLKRKPITKRQNAKHLGEDVSVFRWTWIFHNYVNSILGKPLVSFIDAFDMFRNN
TNVCSKGC GSGKSNFRGITPIYSHQ

>gene_578|GeneMark.hmm|262_aa|-|10882|11670 >NVVL01000017.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10295, whole genome shotgun sequence
VHILKEPNYQFRFFITINIDYKMSCTHCKKYEYDCDSQGYKKQCCEGITKVIAYAGEKYLK
GYKQEWSCDRPKCKLAVVTCMDSRLDVPRLGLCPGDCCIIRNAGGVVTDVVRSLVVS
RELNGTVEILLIGVLDTVQTVYDGNTLASELEDDLCQSPEFLFETFSSAEKKLKEGVMRL
LRNPFIKGKECIKAYFYVTCDCCTLGDNDYVAGELVPVCLDDLKEKACLHPKEKCKPQPC
YKDTKQCHSSHYYQHDTSCHDF

>gene_579|GeneMark.hmm|276_aa|+|540|1370 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MPELPEVETLKCYLEGHIIGETIASLEARRDNLRYELSPYLEQHAVLGVVSGVKRRAKFL
IMELSNGYMLIFHLGMSGRLTMSVDYQPQKHDHIIISFQSGDQLVFNDARRFGMVYSCR
ADMLSEQSFLNRFQGEPLIEGFDACYLLKQLAAKKSPIKTAIMDNKIVVGVGNIAAESL
FMSKINPLTKANTLGAGAVSALVKSIRVQLKAIHAGGTTLKDFLGGDSKPGYFKQELQV
YGRKGLPCYICKTPIESVKQAGRATFFCPNCQQNKD

>gene_580|GeneMark.hmm|205_aa|+|1448|2065 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MRKKKLIKQSTINHMLKFFSFSKAPVRSILAVLTLGIGIGVAYEEMFGIGTWHFHPKT
DKLNVCFPPSGCGDLIAGQIVSAKSSIYMQAYGLTSKPIIQQKLARGRGVTVRILLDG
GNLSDNESIYKELKAAHITVGFDKMSGIAHNKVIIDKKKVITGSFNFTGAADYRNAENV
LLIDDKKIAKQYLQNWESRNKASKK

>gene_581|GeneMark.hmm|129_aa|-|2092|2481 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
LIYSLIIFMQFPAVSKKIHFSFSTAITALGISLILLAMPYLFYIEYLYGAAIWCSLLA
FEEMFAPYIDYAAKHNAILTKEVSISIGGGLSVFWMRYFHDPTILIMFSLLLLLLAHYI
LALRIRNSS

>gene_582|GeneMark.hmm|888_aa|+|3046|5712 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MNKLIYHFGGGDAEGDMTMRDILGGKGANLAQMCKLGLPIPPGFTISAELCQIYAKRESP
LTPNTEKELRKSIAKLEEETDKKFGSNDNPLLVSVRSGAKFSMPGMMDTILNLGMNDVA
KALAARTDNPRFAYDSYRRFLEMYSVLEISSHLFEELDDHKKANHDVMRDSDLTVEML
QEIEKYKAILKYTRPFESDPFKQMKHAVSAVMKSWMSPRAVVYRKINNLTAIGTAV
NIQSMVFGNKGENSATGVIFTRCPSTGDNSLFGFLVNAQGEDVVAGIRTPSPILAVAGG
KGDSMEEKMPKMOVRELSDICQKLESYFRDMQDIEFTIEEGKLYILQTRNGKRAAASAVKI
AVDMVGEVVISKQEAIMRIDPELNLQLLHTAIDYSNSPEVIATGLPASPGACTGIAVFSS
GEAEELSHHHKVLVRNDTSPEDIKGMHVSVMGLTARGGMTSHAAVVARGMGTPCVCGMR
GVVVNEAAQTLTTPGRTIKQGDITIDGSSGKVMVGDVCLVYPEFSDEFKILEWADSE
RTLQVRANAETPLDAKVAIKFGASGIGLCRTEHMFDSNKILIVREMIAMDYEGRMRAI
RRLQPLQIADFKALFEVMEGKPVNIRLLDPPLHEFLPTTENDKSELAKLLNVSSSVIEHR
LQTLHELNPMLGHRGCRGLGISYPEIYMQVRSILQAMHELDVEKGIKSNELEMIPLISEV
KELERIKYVVKTIGEMEAESTKFDIKLGTMIELPRAALTADKIAKHVEFFSFGSNDLT
QTTFGMSRDDIGSFLPDYIEQKILTHDPFVRIDEEGVGLIDIAIKRGKKAKPGLKMGIC
GEHAADPESIDFFYKIGMDYISCSPYRVPIARFAAARSKIKLSKGWNR

>gene_583|GeneMark.hmm|358_aa|+|5709|6785 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MSLRDNLNKILAKHQELSDKLASGIVGEEFVKAKEYSGLETVVEKITKYNKALSLEDLA
KEMLLEEGDAETKDMVEAELRELGAAPKLEREVKIALLPKDAADGKGAIIEVRGGTGG
EEAALFASDLFDYQRYAAIKGWKFEILSISEIGVGGYKASALIKGDGVFSRLKFESGV
HRVQRVPKTESSGRIHTSAATVAVLPEAEVVDVKIEDKDLRIDTYRASGAGGQHVNTTDS
AVRITHIPTGVVVAIQDEKSQHKNKAKALKILRSRIYEEERRALDAERATSRKGQIGSGD

RSERIRTYNFPQGRISDHRINLTLYKIDEVLREGRLDEFIDALISDDEAKRLAEVSDY

>gene_584|GeneMark.hmm|45_aa|-|6779|6916 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
VQPARGSSSELIVAAAALVQCVATPTARLGSPRAQLPQAQASPSHQ

>gene_585|GeneMark.hmm|165_aa|-|7040|7537 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MQEHSTVVVEEQKSMLIENLTVLGSCITIGSFEIRDIFQSFSTLTVVSETETCLLQNK
STSVSPNISFNSETLVLLSNIPTNAQTITAEHHEALLAYLQHPPEMLKLFNPTADMISGIN
DYTDEHLMELSNLTLAESTPVALCRIIGEYLLTEEVIAIPEFE

>gene_586|GeneMark.hmm|172_aa|+|7536|8054 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MYKDVSSLGSIKVTSLLEMLSLPDISGFFLKKLKSLSRVTELMVVKSSFVVSALQASP
AAKGLNTTEDVSSPTISTIPTMLDLVLDIIHFPSITYLQQCAVTLDKISIFLNFVNL
FLIKIKKTFKNLKSQKFVSVRSYVCRPKIGGYFRPADVASNLQGNIIILNKH

>gene_587|GeneMark.hmm|433_aa|+|8114|9415 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
MSNIVNDSKNFFKVALLASLGSGLEYDFVIYGMMVKYIGDIFFPNHLEFISIMQAFSVF
AVGYLIRPVGIVFGMIADSYGRKKSFILVMLTALSTLAIGLLPTYEQAGIIPILLVI
CRLFQGVSFGAELPGAATIVSEFAPKGRGLRSLVLSSTSLGSLAVFTLSMLASNFTY
VEITNNIWRIPFIIGGVLAVISFYIRNNITETPEFMAARRRQTGTQAGQPGVLTPLKIL
SENMANIAIGFGLSFFLATLVIMNLYFPVYISKYFNYNLPDIYHAMTISMMAFILILFF
GVISDYVSKFNMLLTLCAASLPFSYELLSRGGEGDLQIFFIIHQIWIASFFTSYIPI
LPRLFTTNVRYTGVALSYNIAFSMASLIPVICAYFFQEESPFFLVGFIIAIAMAMAAI
IALIFRGKGEYSY

>gene_588|GeneMark.hmm|727_aa|-|9458|11641 >NVVL01000018.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_10570, whole genome shotgun sequence
ISCNDATANPSCANIKELEKLSNQGDALAQTYLALCYDGEQIAQDFAKAAKWHKKAADQ
GNALAQYNLGIQYFNGKGIKDVTKAVNWFKKAADQGYTDAQYDLGVLYAKGKGVTKDFT
QAVKWKYKAAEQGDDFAQYNLGIYFKGEGVTKDFTQAAKWKYKKAADQGCIAQYNLGV
YVIGKGVTKDFTQAVKWKYKKAADQGYALAQYNLGVQYANGEGVAKDFTKAAKWYRKAADQ
GNADAQCSLGIQYVNGEATKDFTKAAKWYRKAADQGHVLAQNNLGTLYFNGEGVNDFT
KAAKCFRKAADQGNALAQYNLGVRYFNGEGVTKDFAKAAKCFRKAADQGNALAQYNLGT
YFNGEGVTKDFTQAAKWFRKAADQGNIFAQNSLGIRYVNGEGVAKDFTQAIKWFRKAADQ
GYALAQHILGDLYLKGEGVTQDFTQAAKWYRKAEEQGHAAAQYNLGARYDKGEGVTQDFT
KSAKWYRKAEEQGHAFQYNLGDQYAKGEGITKDFTKAAKWFRKAADQGNIFAQSSLGAR
YKKGEGVAKDVTKAAKWYRKAADQGCALAQNNLGAIIYKGDGVAKDFTKAVKWFRKAEEQ
GYALAQCNLQARYAKGEGVAQNFTQAAKWYRKAEEQGYADAQNNLATQYAKGDGVAKDFT
KAAKWYKKAQGDADAQYNLGVLYFRGEGVTQDFTKTIKWFRKAEEQGHAAAQKNLKLK
RPSARAV

>gene_589|GeneMark.hmm|262_aa|+|40|828 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MNFSKEETLIVTKTTKTLIVPKGIKKLICIKISLETILNEGIVYVDCGFNQLTVLTPN
SVIHLNCSYNHLTALIVPNSVIRFNCSGNQLPKLIVPNGVIRFNCSGNQLTILIVPNGVT
YLDCSNNELTELTVPNSVTRLICSDNKLTLFVSNVSTLLYCSNNQLTQLIVPNSVTDLS
CHGNLLEDLSKYSELIKPKVVSLYAMCHGIVNENNIPKCFSKVDKVTCDGCKNKVVKDLV
YTSYKGYRDGYIRKTIICKKCL

>gene_590|GeneMark.hmm|340_aa|+|856|1878 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
LYSKCVSYNIVFLFCVHYDQMDNAFSRTKPHRFLMCTDGLIDLNAIGLQNYILVNPKNKI
DMISKYKIAQSCINKMDKNRPFPEVVVYSSCNDNDIDLDFKYSITQWVIIEGAFYKGC
CCGDKMALSYNMLNFYNGNVLVVCPICKKCTNFHKTSIDLLKSVVRNCISCNKMSPFC
DIKGGMCRNCRGRKQKGLGICATCLSEGVPYQHKRCSSCYNSNNKSFIELQTLEKSIADV
LIDTKSLCTSVCSRSSVYKEYTFKPLCKDCYDPYKETKPCSICFKEMNFIPRWKLC
NSCLDVRCFICESPYDRGNSNLHMCSKCKLVSDEFEKSYL

>gene_591|GeneMark.hmm|1002_aa|-|1950|4958 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MINDYQTYCYFEMPLKTVSGVPIKWSYEMANIFYKKSILKNSKHSPVKFEFKFMKTFY
YYQPKATKPIITMWFNSTEAMKHCVNLRMCKSDGNVYVKGIGMLKCSVWENNVNIVKMM
LIDKCKHSQWVKVLAAKVVNVDDKISKIEREFVASFSDLKVLPECDTKGLMTHPSILVF
DVECYSDRYNSMPKSRNPLHACFMISVIFQKMGLCDTRERYMLTLGSGVEIKGTNVITFR
FDQEKELLLKFIELISTLKPNIISGHNIFGFDWKYIYGRCKVTGVNAKEWDVISLLKNKK
SKYVKNEWDSSTGTVMMEYIRSPGFINDTLYISRREFKLRKYTLESVSQHLLGRGKHD
VSPKQMFIAYEENMLSEKLMKIKCGSGYHKNIARCVIDEVLRSFKKNSEELTKVAKYCI
EDSELVIDILEKMNCWISMIETSNAVGVSIFSIYTRGQQHRVLSKVLDTSHSMGIVVDSK
ESTIGKWNGGHVAKPITGLHDYVCCDFKSLYPMIIYKNICHSTLVLDKSIPDSDCNIC
EWDVDSNGKKWKFRYIKQEYKGVLPPTLERSLLSARQNVKDMKVEKDSIYRIVLDRQAG
IKVTCNSVFGSLGVRVGGKLSLPEGAMSITAMGRNDIITCNYLENKGFVVIYNDTDSTF
SKYKNTNDKLTQVEIYRLAVQWGKDMAKELTKLFPAPMSMELEKVGRMFSIGKKMYTFRE
VCMYGTNFGFEKHNDDIMFKGDVIARREASPWKRETYKKVLIMILDRVPFKTIMKSYITN
MYNVFKGDVEWECLLMSRRSRSIYKSKSAFMKVFSRDLSTIGINVEKGDRLEYLILEGK
GNLGSRAITSDLYKEMTKTGNMIESFSVTCDIDKSYIEDSENSVMGIIGIAFSDDELHKI
TESNNLEDCMLVINEIKKRYNQLSNKIDAMLSTNDPEYVLTVLNKSNAKIVTECRRAKVS
GRYIFNRLTSPATKLSKAYKLSEDNLEKTYFNMMCVLDKL

>gene_592|GeneMark.hmm|257_aa|+|5229|6002 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MYSVVAKGNCLSKINDIVWAKGAVILNEFTRKSLICKCKNTHEFTISIKDVLLGKWCTS
CITCRIQGNQNLNMNRQLVCYKYSNILISRNGEMISTYNNGKTKVRVRCSSNHVTDLYV
SQIKNKSWCIICKNKRYTGKYKIRASTTKPKTNILLSKFVNTDVPLVIKCKHGHEFTNT
ANDMISKACPCSDEFGTMDNEISIVENINRRGILLSPYVSENVILCLQCEKTHTFKLS
PINIRKGHWC GDCEK GK

>gene_593|GeneMark.hmm|185_aa|+|6361|6918 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence

MTNFQLKYFREFAIMAFERKCELISTYINTNSTIRIKCKCGYTMNIRPKTIRTGKWCRVC
ERRSANRMMNAHPLNNIYFSRDKKDRGDQVEEMFTLVMGDQVEEIDTNSSEGINDAKGS
IITREYTNKEMFIVENINRRGGILLSPYSNEKSLVSIQCTNRHEFEMYPMNIRRGYWCKV
CEK GK

>gene_594|GeneMark.hmm|175_aa|+|7049|7576 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MEFKTEEILIVNKRMETLVVFPFGIKKVICVSLGLKVLVLSDACVHVDCSNNNLGFLHIPP
NIVYLDCNNNKIRFLNLRDRKHIEYIDCYDNELEDDIKVYSDHLEHLCCCTNNIKKITLSY
SKVLTVNYDGTLLTTNTYNDNTLTKVKCSIENPHSEKLSNIFISSKNKTKVILS

>gene_595|GeneMark.hmm|116_aa|+|7661|8011 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
LTASSYDVKIETFTFVNEDKALVRSIRKLGAFCKDVEFHKTYVPLVHGIDSLITLKYD
YVTENNGTHVNASFVLNIGCIYISCGGVKVDLESIKQDITAMFEFRYDVVAKQVY

>gene_596|GeneMark.hmm|257_aa|-|8041|8814 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MGANQVNVSKSTQELQNDILQVTEENCHAKCTNYDGGGTVIIDGTNIKGDLDIVQQCTAS
ASCTMNQTLQSQVEDIMSSISKQSQKSEQSFINFISNQADVSEIKQNITNSITQIMQSS
CQATSDNIQKDNIVILRNDTVGGDFTLGQKGSASSNCILNNVAKQVLFNKQQAQDQSQT
AENVLAIIVVAIVIGIHALGLFALFFFGKKILGSSSEILESPNSGEKGVGNTKKKSSGL
FSKIGGLLEADPELLL

>gene_597|GeneMark.hmm|690_aa|+|8866|10938 >NVVL01000019.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11027, whole genome shotgun sequence
MSRKVRIVGKVKVVISRKSFDIISQKSSFYCYTHDFDYLPMLVGDVAVIVKGDYVDSVL
TLDQYPMVVPGENKEAVVGYMRKGFYKVGVSKIENIVSEVSSKYGSCIDYISNESQSYK
IETTKTIFSYEKTSYSYVNSVRVSDILSSGNEGHDKNMIKWWYNNITLRRYLLGLNKRT
INEVEDYSLNQMYKILLDNPLRIVELDVPLCIKILKRTENSVTKKQIHQGKIARLIHKYR
KDGWSGVPMSKVKLSCSDIDEHTKALVTDYKIVIDESSDEIIYFCHQLKLENKVASEFN
KRIKEKTLNIDVKYRMDTLDVDQKKAIRMAINNQISIITGPAGSGKTIVIGEIIINLRLR
DISYEVVSFTGKAVARLQEVTDGKEALTMHRLMARGGPFKHLIIDEASMVSTKLMGTFLS
GCGGNYKITLVGDVNQLLPIGWGSMFSESISMCIETTRLVNNYRSDDDGININSTNIIK
DKGIDIKSYENFKLINGDMSDIDKVLKQMEDVEDFDKNNVTVLTYPYKNLENINKKLRTK
FTNNTSDMFEEGDRVMMTQNNYEINVMNGEEGTVTGKYADYITVKFGGTTTHKFVLESRKE
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WVIGSIGDFRLGCSRDPYSYRHDLHQRLLS

>gene_598|GeneMark.hmm|122_aa|+|183|551 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MIFVLLYIEYSSHDCARGKQCSHNIIDNDNVGSDSIDKIVEMVKKNTVYTIWRQSVIVGL
ISSLLVPYYTHQSLPSFHEWTGILLVSLSTYLSSSWIWSHFSPNSKEIIRLESLSQI
VG

>gene_599|GeneMark.hmm|500_aa|-|594|2096 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
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LKMHRPKLGESGATIEDLVSDDLVTLSSIKLRPSIVDGVIDEIETRKIQEYFRIAIKV
TSNESKNTSELVYQLLGYRDKSDVKCLSIMEMVNEVVKLMGRSSDVPLQSSKQKLGIKT
FHNSKIDGGIEGKFGGLISMFGSSFSQSESDTNKPIHSYSKDNELFGELLNILKLPDRIP
DVKLAKIREIKIYQPILIKMSTIFIDMLLNNQRFFDTLSKGIVQDNVSIIVRGFSDDFT
KLFTLISQSVKSGSLEYSKLLCSSIHNDRKNILGKGCESLIQTTELPVSNILINNVN
KCGNNSRRKLVSSLSNLYDHVSYIKNSVDCDSECLVDINLLSSIVNNLMEVSSLRPRIC
NISGDFERECKINVDNRCGTIYPMTMSSGKKIVLNTRYPNLLCYSKKELSEILRSLDNVS
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>gene_600|GeneMark.hmm|171_aa|+|2259|2774 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MQVPHVDRFKKNVHDMVDLIGDIIELSEQGNKRNNKITLNVAGLFIKSYDKEKLIDHFIL
ESYKHWETIHKRDETFFLKNAISVFGKLPEDNVNTFKKLFADGDISDEDKGAIWDFDIS
LVKICIKYIHSVRLPKTVLVGGEERNVYSNKKYSSVNLFSFSTLYDIKLVW

>gene_601|GeneMark.hmm|792_aa|+|2768|5146 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
VVGNYEWYIFIWDYQMTTIVTKNDRKLRTVISAVENGISINGTTIDIGTPGITKIHKALIS
QQNGVHSDTLVQYYSRDDFSPDLIASCYSVENSVAIHLVSDNVNEILSRTNIYPSLNE
LEDIMSGNTYITMDVTSFMKDNKYVGINLKVVTSGDPQRNWDTIFGTAYGSNIFVLHHTH
IYDNVLIGMIAKSMNKFVSIVVVVPAKHLEKYKKGATGSLPSTTSRPRVVKTKPKPKRVV
KTKPKPKRVVVKPKRVVVKTKPKPKRVVVKPKRVVVKTKPKPKRVVVKPKPKRVVVK
EPKHTRAVEVSANIETHAINVRKMYEESLGAGGDGKFTELYKYYTLNIEDIFKPENGAIR
AFGVDSKPLVNSSDILDTLHGNLNVIVLIFLTTIGMVLKDKDCTTIENGKDKHKKMRLDLY
FGDDKKQTTKRMINLLHIGMKTQNSMVEAHKPGAWEDFVKINESFRVLLRNLMGKLTLY
ESDDDEYESNDEYESDGKALKLKEYASVIIGLFKGNKASKYSQIYEYFEANIDLMFLGDN
FGEGDLSGVLDALGSNINNITIIIFLATIGMVFTKNKATIEDGRDRNKIKRMEKYISSSSA
KKTPEIISYIEGISMNKNLAEEFGKYNPNKSWTVLPSVVVLLKQLHGKVTVKYLIGDF
EEKLFLHVEKLNDAQIVEDNCAEDAGDMFEYIDANIKSIANGSRVISVANRYSDKEIQNK
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EFAENFTKKFQT

>gene_602|GeneMark.hmm|123_aa|+|5165|5536 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MSKSPNPLKIISKDLTDVMGLGNYITFDGMAILTFDMLVQWWTIYVSSNELMDDKGNIFP
NSIVSYVMDFRHRNSFNIIKLYDRLNNTESFDGTLTDSQIKDIKDYEKYLEELYESYT
PKL

>gene_603|GeneMark.hmm|452_aa|-|5518|6876 >NVVL01000020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MIRDKISEILGVGNDVWMIYDYIQEDGLYMLGMNKTSVDNMYGFVEGLVVDINYMKIICS
SDGYKEIFMLNEITPDAIGNIDLVSFVGTKKTVNVKGLQVEMYPDGFDIRVFKYRGIVYH
ISNTKLSLNYSECYNKNSYDDLYNYFEIPDSDILEDRCYKFRIVSKDTLHVSKERINEPY
MVYCGVLGEQFPLNLSKYDRVFDTESLSVEDTNDYLFSGYYEIDDSLDVRLLPGERVQI

KYTNKYYILESESYAWRKYVRGYEKDLYERMLQLLDVTHADTTINNPITNYPKMSTWDVK
GIMDEVSNKNIITWPGDSYIPKSSEYKFYNVWAAFLMSVPLHSQANVSKFYNKIINDMS
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>gene_604|GeneMark.hmm|366_aa|+|6989|8089 >NVVL0100020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MDQNNISIRLWNIEFDSKCLVTKYGMLNGKIQSASVEIYSKCNRTLDEQALLEASNKYNKK
IRNGYGVVDVNACINSCNTLQLANKYIIPGSLTAKGNAIASNVKCFPVLLQPKIDGIRCKA
FMKGGNMLMSRNNKKHSFLDHIEDVRRRISLVGNRTLDGELYNGDMSFVNIQSSIMCS
KTKSPSNEKIQYWIFDVEDYTLVDKSRLLDKAKVVKSHIVFVPSIEAVSHEDISKKH
RGYVIDGYEGTMIRHIAKEGSKYHKMSLYRGKRNNNLLKHKDFLDEEGEVISISEGRGKF
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LYFIEK

>gene_605|GeneMark.hmm|92_aa|+|8108|8386 >NVVL0100020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MERQNLSSLSRGQATGMYGGNTNMFVLWFVLLTAVVWFLLYTIKPSFIQKKDSSGETTG
ESNNGKAFLWSLGISAVLLFILWAIKQSSMSY

>gene_606|GeneMark.hmm|179_aa|+|8425|8964 >NVVL0100020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MSYTLPIITSIDDRPLHHTVRKSDTLYDNNTTKLIQCXYLFSTVLWILLVKSLGIYNGEY
MGLLFLSIPVIVYMINYVVGCKEITKDVEQHMFKGNFLSFGYLIVVIFMNWNSSIERTKFF
KTLVISIILLMLSLVDLWVCESSLILSSSLKSIFQTASLGLLSYSLYMYLDNRNKTMA

>gene_607|GeneMark.hmm|356_aa|+|9178|10248 >NVVL0100020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MNFSEETLVVTEATKTLIVPKGIKLVCSGIGLETLILNEGIVVDCQNNKLTCLVTPN
SVTRLYCFNNKLTTELTPDSDVTDLYCSDNKLTELTPGVTRLDVSYNHLTKLIVHNGVTD
LDCSGNRLTILV PNSVTYLNCS DNKLTELIVPNSVTRLYCSYNELSKLTPNGVILLHC
SCNHLTKLIVHNGVTDLYCYGNKLAKLTPNGVIYLNCHSNVLTVLIVPNSVTHLYCFNN
KLTELTPDSDVIRLHCSSNLLTELIVPNSVTCLNCYGNLLEDLREYSELIKPRVVSlyTM
CYGIVNENNVPKFFSKVDKVTCECGDKVIKDLAYILCKGNVEGYIRKTIICKKCF

>gene_608|GeneMark.hmm|205_aa|+|10371|10988 >NVVL0100020.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_11070, whole genome shotgun sequence
MNFSEETLIVTKATKTLIVPKGIKLVCFVGLLETLILNEGIVFVECCHNKLTLLIIPN
SVTRLDCYDNKLTVLIIPNSVTHLRCSNKLTELIVPNDVTYLNCCYNELIELIVPNSVT
DLDCSGNLLDLREYSELIKPRVVSlyAMCYGIVNEKDIPKFFSKVDKVTCDGCKNKVIK
DLAYILCKGNVEGYIRKTIICKKCF

>gene_609|GeneMark.hmm|978_aa|+|1|2937 >NVVL0100021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
NFSFEVLRKPACSHKSASVEDLVTSMMIPGSGEYVYDTKIQQKTILTPHGAEIETTDVN
SHNYHKIANSVHSLNQLQQICKNTEWVSPVVCWFGDNINARDCLIKPAVEFKDTKVAYSE

EWRVGGYNRETAYEITKDAFDRPLYGGSVNDASVVRYLKELKSRNLKTMFYPMFFLDVPPQ
KPWRGHMTTEPEYVRDFFQKEHGYNDFILHYAELARDHVDAFVIGSELIGLTSIRSGDNF
PAVDELVALAQVKQIMGDKVLVYAADWSEYHHTTGGWFNLDPLWASSGIDFVGIDAYF
PVAPAAGSVITKEELEAGWNSGEGYDYYIDQSDSKHPLAPEYAWKNLRYWWENPHKNPD
GALTEWVPRSKPIWFTEFGFPSINQATNQPNVFFDPRCIDGGVPKGSNGNIDFTIQRAI
KAFIEYWKTQEYIGQMFLWTWDARPYPAWPHMRVWRDGNLWEKGHWVNNKFGTSNLGAIL
LEISLRSQINLDHVDVSTLDDTIEGFVLSNQMTAINAIDMLRASYFFDICGANQEMISFI
KRGSAEELSVSSSECLKLSDNSFIEEIEIPKEVTLDKVDLYFIDGSKEYSTNYIYVNNET
NSYTDKATLRTLPLVITEAEAKIMGELLLENASIEDKIISFILNKQDFKLPKPTDFVSFKHA
GREYSIRVINTEIHGNQMIVTGIVDYRDFYLSVASAKNQLTLEYEHSEDSNLVILDLPFI
FNNARAPYLAAYLCNNASAPLYSKLPHDLHGNWSRIASLEPTNALGTLVEFIQPRHVNMF
MIDETSKLIVKGRRLKYALGAQQLAMIGGEVITFRHIEKLQDGLYKISYLTRGGMGTEN
LMTNHAPGEDFVIINAGMGMNMISVSKKLIGKPVIFRACSIEKSMIYENKAQSPLPPFVT
YEQISGHELHIKWVTRSRHYNQWDEPAGAEDSSFTVKLHLNANGDAAEYQSLTWEIIAI
SALDLSAGYSVDIIKGGN

>gene_610|GeneMark.hmm|245_aa|+|2960|3697 >NVVL01000021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
MQTNNFDMELMVPQGQENKDVTFNESLLKIDSFLNLSVNGFRDEVPDEVPLGEKYIITNGE
YQHHCYSSHESKGVQYFRPKQGMVVSFVQAHSFMLYHEHNWVEIMQAAHEPPREDGAMV
GGAVDAAVVADDADAVNVGGAYVDDNFTGIDDEFIAPPNKKHFSLYLNSNTTLNFDNVLF
SEVTILIKQCYNAARSLTWPHNILWPDGSAHIMSEAPNAIDIVKLYRMPESTHFLGKIIG
QNYQF

>gene_611|GeneMark.hmm|148_aa|+|3792|4238 >NVVL01000021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
MVTLLASIAGFLTSIPEIKYFKDMNDKEHELSILEIQMQYNRDNDARSLEEIYVARDI
LEQASLYATFESKIWWVDMLNGSVRPVLAYSFFIMYVAVKYLQYNAISASAHIVEHIEII
WNIDDQAIFASVVSFYQGQRTFRRSYRT

>gene_612|GeneMark.hmm|154_aa|+|4201|4665 >NVVL01000021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
MGNEHSGGLIVHRCITKEGIELIKIFEGFSAKPYICSGGHLTIGYGHKLLPDEPTEEISQ
AEGILLEQDLFRFERAVVRYIDNPLNNNQFAALVSFSFNLGAAALQRSTLRQKINYGLY
NEAANEFKWKVYADGRKIAGLVHRRIVEQELFLL

>gene_613|GeneMark.hmm|194_aa|-|4690|5274 >NVVL01000021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
MPIGRTNSRIASDFILSGIVVKKELSDNITQTLQGGLALKSYAAIWENFNHEQVGNIVEA
FVNHGGKEVWNLMPALLTPNSTQEIQIGVIFSPKYQSLEFIRICAVVATILPPSPLKSYAL
QQAQIILARDHSAFEFEALSNOVALLGASKEMAHVIFQFVVGDVVGIRDEVHELIDLELE
QLQPAGVVIEEVAE

>gene_614|GeneMark.hmm|59_aa|-|5772|5951 >NVVL01000021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
LLEDYSSFFELHNHLPVNOGALASKTVSLKKAQEVAIILSSSNPEETIQNRVAYKAS

>gene_615|GeneMark.hmm|94_aa|-|6080|6364 >NVVL0100021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
MGNNSQLRDTASSNAESVVKPGTVTTELDRASLRKSVGDDLPGDSKNEDNEPPLLKNLSP
FEQAIYNLNQRENTLGLDLELVSGQMTIEGTSGE

>gene_616|GeneMark.hmm|689_aa|-|6846|8915 >NVVL0100021.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13643, whole genome shotgun sequence
LRKFKQASIVGTSGIGKTQLIRTFAYENRSNYKVIWFVDCNLNLNQEFIKLAKELNKNNG
ANIKEGGNLVKEKVLEYLQKKDNWLLIFDNLKGIGENKKVQDFINWEHNGHVIFASQDKEN
LPYSIELTKFNRNDSIILANNILESSSSEQEEFLAKSFGNGYPILIVQAAQLLNQVPGLNF
KTYKKQVLRSSNKLKLNIALAISEFTPTAVNLLYKMALINNQAFSKDFLSYITDNKTSLE
DDIFQISKFALISNISSSEQNSIFEMHDIIAQTIIDMNGRKKSQDVLEKLISNLLKSVPR
SVTDFHVFRRSGKTIFENFKVISRYTEEYPISLFGTMGLSLYLMTQYNNYSYDYEAAEELVK
WFNEREDINKFNPSLMNNDERARYADFLQSLARHYRNRHFDFDKSMKYAMKAKEVYKNVE
GYESIKADLFYQLASNEIKVGNMKSAEQYIVKLNTPFINNVESMLFFLKGDYESALNRM
SLLIKIRLGKIKADDLVLTSNYLLRAKILNFLGRYQEAYDQAKQIYNMHKFKKEDHLIF
GRIFAELARSELGLGKIADALEHIKKSISILKNMQQEKAQKARFLESAYLARSYVVQGEI
FMKQNCFKDAIEFYRAAQKIYFYLYKNNMAHIEHVSYLHLQGAKAACRAGDLYHYKTFG
PQVRGFGQEHPTIAMFKYCGNYNMNLWQ

>gene_617|GeneMark.hmm|243_aa|-|747|1478 >NVVL0100022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MNFSKEETLxVTEETKTLIVPKGIKKLVCSDIGLETILNNEEVVYVDCPYNKLTELIVPN
GVTFLNCSHNQLSLLIVPNSVTHLDCSNNKLTILIVPNNTTHLRCYDNKLTTLIIHKHMT
RLNCSHNKLTTELIVPNSVTYLGCSGNRLTELIVPTS SVVRLFCFYNLLEDLSKYNELIKPK
VVSLYDMCHAMVNENNIPKCFKSKVDKVTCDGCKSKVIKDSAYILYEGYHEGYIRKTIKCK
KCF

>gene_618|GeneMark.hmm|391_aa|-|1605|2780 >NVVL0100022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MRRGMQDTGIYIVRCYTCMKVLSPPYDYSDLIGDGVSPRTAIRLIKLGNIINVGVESEI
TGEYITKLFANDLDITRYNRLIKGTTPEEALELMKLSHILDIDHGSSSNEYIAGLFRFN
NVFGRYKEYIRISNGLNEFDVLDLMDGLSDKFESRFTVNNMVNFFSSIDSMKRYEDYLKI
LAGLNASEIMKLMGLGYVLDNSYKHKNTNSYVKRLLVSSGMPGKYKQYIEIVNGTKVHKL
LKLLGLEIYILDTPGCIITSYVTKLFKENKVEYAFDSYIECISGEMNTRKALDILGVKR
ICCRMRVMSQAKIPLGRALNRDDGRVYETKPLEISRAFSNSSRMTNKSLLLEKFSKINVP
LFSDDPPVRNANMAGKIRTPREGTLREFKTN

>gene_619|GeneMark.hmm|227_aa|+|2852|3535 >NVVL0100022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MVSVEYVMIVIVALIVLVGLLIYHFAFRKHGNIIEGEPCKDPCAACHYCGGDTKCHSG
ISGGGSGMECSISAHCSGLTCVDDKCGTGSSQDNHSGSFTNSSITAIIDGKRYLTLS
ATNDDDEAVSIWEKDEPNHKYSYSSSTNELSSSDSKLMVNSFGFIKEGPAAKFYFISSGG
EMRMEDAFANILSLDTRDNTAVFKDPPRYTSQSTGPTVKGIVIKVVK

>gene_620|GeneMark.hmm|367_aa|+|3573|4676 >NVVL01000022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MENDDDVIDYIDLPLEMSCKIVEKITEIADVILKEDERMGPLMMEYGRTLRQLGGFKMY
NINLIQGMRMSLYVDENILISVKTVLEANMLSTLAPGVSVTIVILSDNFTESELEIAKAVV
DNYLTKSITKGSVHRNMRIAIFRNIDFDISDDSGGDFILINKNKMLIGTSLYRDVALVALS
IINKLDIQMVSVDHENIKGLSLIVGNEIYLNTDMIYDFSRSDLGCLDQSNPCLKDITILG
FNGTYSEFPDRLLTIYMYNNGFLFHREETDEFLLTSDTLIHRMIERDEYINGNKNKNGKID
TTLNIWSSSKNYESLMDIFAKTIFVNSKDIMIKELTIKIPLEFLNAHEMTDDSIHIEQS
YLEIFEG

>gene_621|GeneMark.hmm|632_aa|+|4711|6609 >NVVL01000022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
VIFKENSVSKMEDINIFDGRCKTKHLLRILELVKTKDLVSIMNPIGSGKDIYIPLILTK
IGKVLVSFNTRSRELSLNCYLSKYTDVGRSLDESTYNEKTSVICGTSSEVRDLVSSNSSI
YFSREIIIIGGLDTSLVNNIITVAIWRKKIKLSSTSPRMVLSNTSPSNMLYKSAADYNR
HTLVDVSSYTVSVIENFDITYDDSYGPGSYMMLTKIAYILSNVYENVTKSTLVFLTDLP
RINRLVDLISEVVNASIVTNPVDEPGDESEHNGNVVYVDDMSSSSPYIGNVDFVIDSMS
RTRGREVVYIDKRTAKMRASRLNTTKSPVCHRMCTKRVDLLNGWDDSKMSSDDMYDLIV
GYKENGIDLSKINNQNGKSITEANNSFILGSLTSRDEITEKGFIRESHMSRRCSSMLW
ECMKKEYSKYPIYACVCLISLIDSYEHGYFKYPKRLDGERTVDYFNAVTTFKRRHHAKFF
GYSDVGTLLIMWLDLLNNSIDRESVKIWALENKLNMEMIINVYDSTNKIMESIGGEHIKY
FEIKDVIDRMRPIIINAYTDRCLFLENGNNTKYSDNYGNFYFDKLFNYNTMIVNPPKQL
VCLYFDDTKIGPGRIMKLSLNADDYVIKYFEH

>gene_622|GeneMark.hmm|300_aa|-|6639|7541 >NVVL01000022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MNFSKEETLIVTEATKTLIVPKGIKKLVCTFVGLLETILNEGIEYVDCSSNQLTELTPD
SVIRLYCSSNELTKLIVPSSVTRLKCFNKLTELIVPNNVIHLYCSRNLTKLIVPNGVT
CLYCSHNKLTTELIVPNNVTCLYCPYNRLTKLIVSDNVTCLYCPYNRTELTAPEVIRLN
CSYNQLTELTPNSAIRLYCSYNLLTKLTPNGVTCLTCHDNLLEDLSKYNELIKPKVVS
LYDMCYGMVNENNIPKCFSKVDKVTCDKVIKDLAYTRYKGNVEGYIRKTIKCKKCF

>gene_623|GeneMark.hmm|319_aa|-|7643|8602 >NVVL01000022.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_13955, whole genome shotgun sequence
MNFSKEEILIVVGTTKTLIVPKGIKKLICSKIGLETILNEGIVYVDCSRNLTKLIVPD
SVIDLNCSDNKLTVLIVPDGVTYLYCLSNKLTTELIVPDGVTCLYCSNNKLAKLIVPDGVT
RLYCSSNELTILIVPNGVTHLDCSNNKLTCLIVPKSVTFLYCYGNQLTELTPDGVTFLN
CCRNHLTILIVPDNVTNLDCSFNKITELIVTDGVNYLVCSFNKLTTELIVTNGVDYLVCYD
NLLEDLSKYSELTKPKVVSLEYAMCYEIVNENNIPKCFSKVDKVTCDKVIKDLAYTRYKGNVEGYIRKTIKCKKCF

>gene_624|GeneMark.hmm|28_aa|+|1|87 >NVVL01000023.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_14627, whole genome shotgun sequence
LSQFGTMLLKGFLLPEIQDYRLFYLLR

>gene_625|GeneMark.hmm|65_aa|-|84|281 >NVVL0100023.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_14627, whole genome shotgun sequence
MRIVDDAAEPTQAQMEDELKSAPVASLSIHQPTTAVTFSPEQVLQGMAARLANANITLG
TASSS

>gene_626|GeneMark.hmm|395_aa|+|791|1978 >NVVL0100023.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_14627, whole genome shotgun sequence
MAIFSPHTSIVQMSRREIARDYLKKGRVVYSKIHVPAGILEDSGKGLDAGIGRKPQGVYDG
SARYMKSAELRALNEELAKENARAIWKNPELVFEYLPLDNPVFTKEEIGAALLEALHKDL
VIGEVADEKLIVGLEKNLARRCMVLEARIFSSDTLSLVTKCDLRGRALYTQTKRVELEER
YTKTIKELHGRSNHSLYLQDVLDDHLSIREWLAKHARSGILRFTQKLEQKIGLKLNVASS
KQRVLSPEQRKAVVGILNGKDLSSLQGLPGSGKTMLAGVIARQYKKAGKKVIGITPSDAA
ALALAKETGIECRNAILWRKIWLDEKWRGRYGEFQPLRMDYKEDKFQSKISNLTKNHV
VIMDESSRMDLINMDFILSEVRKAGAKIIMLGDN

>gene_627|GeneMark.hmm|311_aa|+|1994|2929 >NVVL0100023.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_14627, whole genome shotgun sequence
MAGGFKKSIDICGSETLVEVRRQNNPADREAVKLLSQYRTHDALTMFEETGSIIIETEL
AADSRLVDDYVEAYTKKAEELDRSNHRVADSLVCSHTNASVVKFNSEIRERLQKNGILK
YSKVGIVGLFRRKGGVNVGNKRMELLPEQIVFTGNLNYEESDVFNSEVGTVLSVNWV
DKQGFYIAVLVKNKADGSLEQVLDTKKLESEYPGSILDYGYAVTAYKLQGATIDQTFIRH
GSNIGYETFNVMSRHRENVWLYADRKTLHDALYATLDKNIVKARYRYNLEAKPGQNLDM
LGLKSHIINSL

>gene_628|GeneMark.hmm|1779_aa|-|2986|8325 >NVVL0100023.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_14627, whole genome shotgun sequence
FNEQDES VKTLLNGGDTDISGLEGYSGYKICELRDGLLNSSDQLNQESVEPYEITAAQ
TGEDKLLSAFVSKELQINYDSDSDTPEDEDERYDALMCDALWRAAFNEQDES VKTLLNG
GDTDISGLEGYSGYKILQLKEAMSSQRQVLEQLRIDLFTAARSGRNLELLSELVQGKL
GFSESELQKVIEDTIEIAAFNSQQGALIRLLEGGNIDVSSFREHMIWDIAIQALDKVDEE
QSVAGNEIHTTLRQDAVTQPTPTGLDISTMNLNLVIPTLDEFKQHPHPEGVDPALLQQY
GHEAKIPEELLAASSPASSAVPSSAVDFATTPAQISSDPAAEEKQKTLALIRDYYQRGLEL
YHSGDSANLALAAQELAQALRPTLSKPSMRSLHVNIADVKEELDSMYHLGKIYLADSSY
PDHHSKAAAIFQYACAGFARKHFTEEYFAQQGGVLTIAATSADDRKEFPSAEAAAAYFTNQ
AYLVENQFLVTLHSNMPAVTLINAEDTKAADLYCSSYHQQISGYKDSLQIRFSTQDKLE
EISDLTVVDIAQRAAEVAKIYSDVTRFFVRHERDVLHQDAQHQAPQQAAPPQVQQLLI
ECYEQLGAPPEGCEYAIVSLGSLASGTMTWPWSGLEFAILINEDNESYREYFRNLTKLLHI
KVINLGETPLRNVEIESLNNFKTANEADEWFQDEVMSGFNFDGSDWHARKLPFSQQGQQ
AENELDIEITIISDKPDYELILTPGQLAMLQREVGHSLSLTEPEHDLADSTPPDSSTEST
PGSESTESWVSSDERLVQALRSISLIDGSTRVDYETGQEFRTGQGLLDSYRAHLRDPEIL
APQILQERAMHILQEDVSKFSLKLSDEKKNLVDVKKDFHRLGEVIQALSNNYNNILAKDD
SPAITIWEMIDVMEIRDNPILSPVGAQHLREALGIATELELSSYPNNEAQGEWMSTYVPT
VENLSKEQRQQLVQQTFFHIKDTSLHFFYYVMSKVRTIMDGFSKEESREVAERTLVNDL
FDASNYNKG MVHARFIEYDQALGYLKIakteapesfELLKNLFLVHQKMKATEDALAVAE
KMLRLSQAQHPDNPNDLAASYNLSGNAYDLKGN YDKAIEYHDLALTIRLQAYANSLSH
PEIAASYNLGNAYNAKGEYQQAIIYHKQALAIRQEAYVSNPNHPDLATSFNNLGNAYER
KGEYDQAILYHEQALGVMQKAYTSTPHHPDLATSFNNLGNAYEKKGEYDQAICYHDLALT

IRLQAYANSPSHPDIA MSYNNLGNVYDSKGEYGQAIYHKLALAIKLEAYASTPNHPDIA
ISHNNLGNAYYSKGEYDQAYEHAGKAVEIYFRNHHQQHLAIKSVYDQIVLQLGNLALLD
DSAAAAIEYYQQIDPNYEHIVFESEEFVRLQFEHAAMAYSSNALQSALNCQLVLVKIDPG
LRHGNHYHNLASYAYLGHIEKANITFTDALAQPPAKVTGRLHVEYAQFLIVNRDNEALA
TSVQEISPHLHAAISSDNMSDLPYGRAEKDSVCEILQNLLSQRNAAIQVNPVKLAYYLLI
KYPECMQETNTPDLLKALRSHCDNLQDEISFTLLADAYRSVGNEELAGQYTEQAALIVI
VDDLITGKIKLTTDGGDIEPAMVQEFARGLGVTGSSAVSEGRLDDAAKSYAKLFKIYHEI
LTGDLKGFQAGANSLATIALLCNHKDLFLHLKQKFGAEINRELVESGLDLLPLEQQIPT
QLGIPHQAMQSDETLIQSPAEEEEASSALGGANSSADDEG

>gene_629|GeneMark.hmm|29_aa|+|2|91 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
IVLRTISILNLFKNSILVDFKSILNSFK

>gene_630|GeneMark.hmm|59_aa|+|437|616 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MNQDFSVSIFYGDDQGRVAFLTGPTPTTKPNVARKIVRRIDTDAGGSRVAQFYAKMNL

>gene_631|GeneMark.hmm|170_aa|-|835|1347 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
VHWDERGLQRMHCVRILPRQVHWEERGLQRMHWVRLIPRQVHWDERGLIVRRVHWVRLIP
RQVHWFANNSTAGTDTHTGAMLAATTRARRSILVTQTTRQGIDQARSLSTASGKNTENIA
STTKFQIQGVVDVGLSSFLGLDMDESIPGTRKVVGGHVDSVETKPTMSKI

>gene_632|GeneMark.hmm|503_aa|-|2103|3614 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MKKCYQLEKKVLKPFWNTQCLEISKLLWYPENTDLQDLQDLQDLEHISSSKLSVSSNQM
MENSSFWITKMKNQKMKNWQTTYLSSTSLTVDKWEKEDIKSKMIRIYPTKKQTKILD
DWRHTNRYVYNKTIAYTRNNPSEKINFQSFNSLVNTIKDVDDKRSQNPVNLWEMKTP
KEIRAYAVKDVVTAYKTAWSNLKNRNISHFKIGFRKKKSPTSSMTIQKQSIDFKNNYFYI
YNTFFSGSGISIGKRTLKIKKNDFKDGFKVEHDSKIVYKHGKYLLIPIDISKDNTNKKI
KKNGVIALDPGTRTFMTGYSTSEVIECSRKADIFKLLKNKISILQENRKYKTIQKYIRI
GNLVDDLHWRTIKYLTNDYDEILLPSFESQELVKKKNKKNKVVREQLLNKHYQFKRRICK
SNMLGNVKVYIVGEEYTSKTCGRCGALNNNLGSKEIFKCVKDDCNFKTGRDVNGARNILL
KHLDVCPRSTQVGSTQDKFASKS

>gene_633|GeneMark.hmm|143_aa|+|3779|4210 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MSNTVEMSSKNDEMSNEIVALSNNGNCDLWNRINDLSSKNDEMSNEIVALSNNGNCDSWNRI
NDLSSKNDELSSKVNDLSSKVNDLSSKVNDLSSKVNDLSDNSVLCDKNAALMRKISSLD
ESVNSLKRSSNSDGERVSKKIRI

>gene_634|GeneMark.hmm|117_aa|+|4362|4715 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MVKTIVSLAVKCATSKICELDAKCRITRINKNIETSLIKYVEKNSETFAGPIDDFAWS
RDEIAYEIAKNNFPFHALFSDECGEFGPFEDTDEVEDFIGEIIKQFFKGQCYIDSD

>gene_635|GeneMark.hmm|135_aa|+|4758|5165 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MNFTFFKKKEPLFIKLTMDKFESNFSSTKEEKIDGIVTNTIYEFFISTCEIPKWKQCQQQ
KLYVKNTDLYPQILVFYDDKIKQCSVPYWESSTILTYQKNVKTIKVVLVLFQSHYTKDVVA
CETDYRPEESSDFV

>gene_636|GeneMark.hmm|435_aa|+|5393|6700 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
MAVSQMTIYNIANAANAFAEFQTMVGNIIPEGLKHKCMKFPDCNIDVYAPTLFCNDHAATMY
LGQTTCNIPGCKNKPLVGFVCEESRHMFLTVRLMAKQVKIIREYLKTAENEDTCAMT
QEQAAVIESLKNELTKKDEHIDALTLEKSGAEANLLFQNAETIKQVKSLEDDLSNAERRV
FLRHLKYTDDIGSIVDEHKKDIAKKNVEIENFKNMAKNNNTEEIDDLKESLEYFKMRESE
LSIKCTHLATEKKKMTGAYNDATGVNQAIYGRIRDFQTEDNLKTATINAQNEKISTLKRK
FAQDFSNLERKFAQDFSNLEKVQEMALNKMASNDVELHRENDKIKTVNDAMETDLNCFKA
ECETLRSTTDAISEERDALFEECENYRIIMASMKTVFQGFARPATIERPKKRTRVIVEDD
SDDEIVSELVIDETV

>gene_637|GeneMark.hmm|55_aa|-|7420|7587 >NVVL0100024.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_15885, whole genome shotgun sequence
LQIARFQDIWELPIYNGFYFPKQLIFAACCTYSTADNENRSDPTYSDFDQNHNS

>gene_638|GeneMark.hmm|621_aa|+|2|1867 >NVVL0100025.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_16436, whole genome shotgun sequence
LLISRLFAFLGGGAIMFSLVETDLLSIIVLANSFYYPVTPPFLLTVFGFRSSSKSVLI
GMIAGLATSLIWKMLPIEFGSFSQKMIGVLFAMLMNTVFLASHYVLKQKGGWVGIKDS
YLDEQKIRREKWAALVSKARNFNIPINYIKALPVADDSRYVTLGAYFLVFTFTSIYSTHA
EMLKANKAIITTIYKTMIISSMMGMYLWPLSIKTEIKQMVMRVWYPLAIFYMLIFFSI
FFVLLNKDNNLHFVLFVAVNMIVSIVLLGWQMASVMIVVGMVMAVQFYKYYAGIEYLDISL
GSPQFILLSLVFIGAALVIFFRPQQERQKQTEHKVGELLDVGTLVTVVSSRDSQISTL
DTKVSGLLEERVDHYTERTTNQAQEIERLGSTAQRILNNVNHELRLPVGNVNMNFAEILHDG
LGKLSDEQLKMLSKEVYKNSNRLSTMILNMLDLATLQAKKIELQIKLANFSELVEERLAA
CRKIYVEEKPLKFIKIEKNVMVxMDENYIRQTIDNLVINAINFSEKGIKLVxVAKQTNF
VTFTIKDQIGIPLSELYDVFTPFKMGSNTEKAEGRVGLALCKAAVNAHGGGEVKVSS
GAGVLFVRVVLPLASDRGRPRS

>gene_639|GeneMark.hmm|514_aa|+|2625|4169 >NVVL0100025.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_16436, whole genome shotgun sequence
MQEKQMTVMTKSLTGAPTAKDIDWNSIPWNKANSEVKRLQMRIAKAERDGMGKVKVLQR
LLTCSFYAKCLAVKRVVINKGAKTPGVDGIIWSSSNQKIQAVLSLKRGRYKQPALRRIYV
PKKQRGKLRPISIPTMKDKAMQALWLMALIPAEERADPNISYGFPRKRSTQDARGQCFNA
LSKGKSAKWVFEVDIHSDFDKISHQWLIENIPMDKVLKFLKAGYMEKQRLYPTNAGTG
QGSIIPTLAVMAxSGIEQKVRNSxKRVRxKEKINFISYADxFVITxDTPExLxxKVIPI
VTExLQEVxLELSxEKSKITHIDDGFNFLGFxVRKYQGVLLIKPAKENVKAVLAEIRSTI
KANYPAKTENLIYLLNPKIRGWANYFRGSVSSKTYSYVDEMIYRMLKAWMLRRHSNKS
WINRKYFKRRGFSNWNFYATVKDKQGDQTPLYLYKASETPIRRHIKIRAAAHPYNPEFNE

YFKFRETSKTRITNKNPDFLLDYKLLGDNVAHT

>gene_640|GeneMark.hmm|640_aa|-|4241|6163 >NVVL01000025.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_16436, whole genome shotgun sequence
MASDPPASDPTRVDPLDQDGLKVDLDCGLEFRLEFESADDIPKVVATPPEKPVFQTRHE
ATGGLDLLEIPFDSPEIYLDLSADASAGDAMEEEFRASLGRADSLFGSLRDAIGDYDIEE
DEPPLVMNGEKPTCEVLELPHPSPELNDETIALDMLKMAQSMQERFERIRLTLEDIFNS
REGEREDACRLSRLEAEIKFSAAEETMRHDSEMRFRNMWDIIDGIIDDSLEEEEREYSARL
SRLEKDIKSSTAQEIMRDNAQVASEYAEPFVQRHETWEDWSSEEDTPALSTIEERDELPK
FQPLSDEPTFSDDELETIEFSSAPSSINVAYEEERSNYERELNASDFVLPDDEEIQTPE
KVIQHTIGSDSKYTNPFTQGIHSDYDGDSEYFKEEYTPDLEQPDPLDLEDELVEPNPN
SPAVEELIIIEEPEILAYSPPSALVDLTHHAPHNEPVDYKMDLNVPDFILQPDEKTKIA
ASNNDLPANTEQLFQEAEDDISIFSLIDEVILPESDIIGEISQDKPTEVKPSITPSQTAS
INDAPLAKKAATDEVVVNNIQKVEDAKTKPKIPMEQEINLGTKQEEAEERNAYNTWLIQ
KETEHMVSAIGLMRRFIMPRFNTKCRVKSTLLKIPPLSAE

>gene_641|GeneMark.hmm|67_aa|-|6370|6573 >NVVL01000025.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_16436, whole genome shotgun sequence
LQEIMPFPKLNLELVELHNFADQQQAAAAIFEYIEVFYKIRLHSTIRYLAPAQFEDNER
ILRKSVL

>gene_642|GeneMark.hmm|114_aa|-|6715|7059 >NVVL01000025.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_16436, whole genome shotgun sequence
MTKLIDMINSFKDNGIEFISLENNIDTTTPMGMLLFTMCTAFSEMERVLISERVKAGLDA
ARYKDRKGGRPKALTPDKLRLKLLKKSQAFSVTDMCNTVKIIRSVYYRPSIIT

>gene_643|GeneMark.hmm|822_aa|-|1|2466 >NVVL01000026.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_17624, whole genome shotgun sequence
MFGIEIGLDLAVVIGFLLINLGVGLYYGQGVKNIKDYALGGRDFSTPALVATIVATWVSG
SYFVITVSEAYREGMWFVAGMGEVFSLLTAFVLGPKIGKFLGNLSVAETMGVLFGRYA
RIITAIASIAKTIGYTQAQIKIFSIVLSHILGTDSMLTMLFSSTIIITYSAFGGVKSVAF
TDVIQFITFGAFIPVCALFIWKIFGDTELLRNTLEHSSNFDYTQLTNIENPKFWTYLFLF
IYFTVPQLNPTMFQRMLMGKDANQVKRSFAIAAIIILVINLVASLIGIIYANNPDLEPN
NIFIQIVDDYFSREVKAVALSIIAMIMSTTDSWINSGAVIFVHDLCKPLNIKIRNELLL
SRIFTVCFGVISVFLALYVTRLFDLVLLTSNFYMPVIPVLVLSLLGFRSTERAYLISVV
CAIIVISWKYFVTFKVDSIVPAMIVNLVSFLLAHYLLGEPGGWVGNANEPKAKEIKVTQ
RISEWFARLPARIHQFNLECYCKSRLPKSSAVFNYPFIVAMTMATTMSIESDLYNSHLL
LINSLQILVLTIAFFCRSLWPQILKEKYLGLIWCVSIFTGLAVISSFLVLLSKFSHMS
LAILTIHLTTISLFXWRSIAVMISXGLWISFFFYERYXXEMVXGEIYDLKLMIVVXXM
VAGFAXTIXRSKQEXLEQXEHXXXTLETEVTTQDXKITXXNKEXXHYXXRVSXQAREIEX
XXXTAQKILXNVNHELXXPVGXVMXFAEMMRDGLGTFSDQXXMISEEVYTNNSRNLXMI
LNMXDLAXXNAKKIELKKEEVNFSKLVHERFENCXRDVYAQDK

>gene_644|GeneMark.hmm|161_aa|-|2577|3062 >NVVL01000026.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_17624, whole genome shotgun sequence
MAKESEITNESNIVNITDNSNLAGRRAAIMFHRPYMETVFYEKLHLEVECKQLGITIVDT

IYNDDKDAFIAYNKLRPHRKKESDESKPLILLASARNLLSSRSLLPKIILSALIELKEID
LYLYNHGFNIKNGKSELTLKPCNVKGLNMKKSASNLGLFV

>gene_645|GeneMark.hmm|854_aa|+|3675|6239 >NVVL0100026.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_17624, whole genome shotgun sequence
MNINQNLINLRLTSIYKADSLWPYVNLTKRGAKFMSIFKRFEQAARRAVEAERRKIAGI
ATIEAEKVGSAALRSEQSSAISLAQRASDAYTDREVTAKAKQSISSLSQGLSSAVSRLSREE
ASTRQSNQSIQSQKAAWAVERAEQEVAAELRAAAEEAAGRMELAAIEQQEQNAAQLVLQQE
LELQAARQIAPYEPNIQPAVIFPAEDIEGKFAEHSEIIQTSSRICEGNDRIAKEKHPQ
AILLIGNTGAGKSTLAHALSGRGLQGIVEDETGELLIDALHPTEDIVIGHQMTSETTIPN
KCRNGETVVWDCPGSNDTQVDQEFNIFYIKRLEMSQAVRLVLLVPEPNIVGDKGSKFV
ETIKYFMNSFDAAMLGNSVSLVSVKVPVPHKRIDHIKNSIDKVLTKNQVTDKEMKAFVGT
LESSSVHLFYRPRDEGVMPSQANLLAAIEADGDYVVSNDKLNALKLTVSQPAQEYSHDLLQT
VSGNFNINVLMINAVADSTNMRADDGNLFTKNHAMIARWVPDQMSYDDLREELYFL
NLDMLTALKGLFESPVITFEQVAVLRGAMQIFERFVDNDEAKQMQEYAYVLNQQFEYI
KFFSEFIEEPEAQIYDLNALQAVIAQCWENIATNFEYQVKTIELEPGQGAAYYKKAIFYL
DQCDHPVCATTIAQAHMRIAELVVGDDVPAIEHYVAAIGYDKTLAEVYEQGLGQFQREG
EYSKAIKWKVVGKAYAIKNSFDWLENAPENVYAIMMVRGGYCEYKGRVDDAVSWYNNA
ASVAVNLEAAKQASSEERTLSNAKNIRDEGAARVREMMDSNFCNYSMTPEFVESIADG
VIAGGAFAEADV

>gene_646|GeneMark.hmm|129_aa|-|6387|6776 >NVVL0100026.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_17624, whole genome shotgun sequence
MTKEIKILSVNRYPLNTTLRLWKKNFCTIDEAPTGRDALKMFTKTEYNLMFIRELPDM
LSTDIALQIRSETELNREPAIISVLIPRTPANQDPKYLDAGIDYVLEDPLIGDKIEEVV
KKFGLGGDW

>gene_647|GeneMark.hmm|57_aa|+|3|176 >NVVL0100027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
EQFCGQAKILLDLSGRNIHKIALKNGQRIYVPEAWYMAAEDLMREKKTQEEGGSDE

>gene_648|GeneMark.hmm|325_aa|+|169|1146 >NVVL0100027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MSDIKVFDENEEPENIGICTRWVEIGALFILCEVVFVLLMTKEGALIVDIASMWVVF
LLFLAWVVVLGFVFGVWGLEKAEALSFGWGFVWLSVLLMVLLAFATQEGAGLRRQEDKE
KQHLQQVTTQLEEATAKYVPWLFNVEEKDIQHKKSYVVDVLENLSSQDLLDDWYNSNSAK
QFVLQKTKVDAKAQRVELTGLEFGAGHASDTPWQQRIYVIHFIQQDGRWLIRNILDKRLE
EHFKRVDELKEQGTQESETQESEIKQPAQTGFLTPGELYQSIKDLLGFVSRQRYLFAQNN
NTNLGYSISLDILYLEKSRDLDLKI

>gene_649|GeneMark.hmm|134_aa|+|1339|1743 >NVVL0100027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MIKKMAISSQAASSNAASSQATSGCTTGGEAAVNKKGEKELRYKQLLALGAGLGVLLALIP
EMALANFNLNAGVTAATPLITALTEHWGKGVLSGAGNAIIGEGDGWQRATRAVKGCI
AGGA AVLALIAMLG

>gene_650|GeneMark.hmm|98_aa|+|1736|2032 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
LVKAMNERVFTKCLNHERKYWNRSLGSIVLGVLMFALVGLWQGLMWGLGSGAIGFVVGGM
ISKHWYLGLIQRKLYWNLPAKVTVDNRNTPDSSDRELL

>gene_651|GeneMark.hmm|190_aa|+|2074|2646 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MNQEIVRLNIETIARQRNVFLLLAMLAISSCLALS SVKLVSTHDRVILVPGLNQEVWTSGK
GVSSSYLEEVSAMYLPLLLDLDAASIEWKKEHLMPYVSQSDPSYMKNLGEYFARVKARYK
KFTLSTHFALKSLESDQVNLTVKASGQLISRFGERGFKTNPAEYMLSFVWVNGRLLREF
AAVSKEKEEK

>gene_652|GeneMark.hmm|252_aa|+|2648|3406 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MIRIKGCMGLLIMLLYLVCAGGAMAGDAHIPSEYKFITVSYGKPTKITLSSNGINRINFA
EQRVVQIVGESQKFTKLLTSHGADLFLTSKLSGEAGCENISVVLSDGRVIDFVIKIEKSD
VPTIIKFNFSSLVFQRHEMVLAAASKMIRAMREERVGKYYYVDVKHFKPELLAGVGVQV
VANYRYLKLAVVVKVTPSNGGIEISENDFHQMFVKVISTRIGKTQGVGTRGVPVRISKP
EFVYVVYERSEE

>gene_653|GeneMark.hmm|447_aa|+|3403|4746 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MSNLLTSLKEKAIKAGVRIKQLAGRGTGLPVPGLPGLNGESARGNNKILRKKQRGVVVVS
VCIVLVLIGGVKSYWESSQESKRLAKTKTSETGRRASGSEVLKIELADKALDPELHWRNF
YEELRRSDRLEFEKRLKEIEKSQEAVLSKAKKAIDTELAGTKRKLMLAHQELEDAGMELT
RVARMEQERINGAPPHMETLLEAEYFEDEIEFFRPKSAKNYVPEGTYFTGYLLGGIMVST
ALNTAADNATPVSFRLKHRGNLSKLNKTDISKCRIMGSAYGDLSSERAIIRLEKMICEKD
GFYTASRVAGQIFGADGFNGIKGTVISTASKHIKNAMIGGIISGLSSSAKGQDGM SILSG
GLTSTQKKGFKDLAGGGLLKG VGNAGDKLAEYLLKQAEAMSPVLTIPSGARVNLQITKGF
FMGEKTTHRRIKNGRKGAKQIKKEQKR

>gene_654|GeneMark.hmm|120_aa|+|4743|5105 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MSILKTSIRVVCVGISMMLLSSCSSYKSSFSCGDAAGVHCTSMDCVDRLISSGEIEQYHN
KARLKGAAHKKWKKSKGNAAKRSIAHENMDLPRVKTPRVKSQGLKTPRVKASLVKPLHGGV

>gene_655|GeneMark.hmm|514_aa|+|5105|6646 >NVVL01000027.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18017, whole genome shotgun sequence
MLAIEKHLKSFADYCGGLKTGGERGCDPMEEFSAKIDAATGGATPLADVLLYDSFDDDSGL
AFHKDGS CGFFFEISPLVGS SAGLEKNLTLFFNDELPEGGYLQFLIAGHDTSSILDMWE
SGRTCGGPFLERITAYRRDFIEKGRDFENAGDGR LARNFRFTVYSTNDSGTEKGLKKI
IKFKRLENKLAERKFPVLCKADDLLQINREIMQMDINLDGATKPARHNMARHDILNSL
SNQMLSPLSPVRIEEEQINHLATGLVTKVFHPSSELPESFSLSRMISLLGEGDKTVPARFI
ISYTIANNLGASGTSAMKDQGNRSIHASEMSYTRNDLVAREEARDWREVLAIHKKGEQFL
TESMQVSITAPKEEIEIAEEVLKSLWNAQDWKLAISGNIQLLGM LSMLPMMQASYYQSLK
FFKLTRVAMSGEVVAKLPLQGEWKG VVWKS GVLLMGRRGQLFCWNPFERVGGGGNYNCTIV
APSGAGKSFNLAETATSMIAQDVAMFIMDIGGSY

>gene_656|GeneMark.hmm|629_aa|+|2|1891 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
HDICSIIDIKEENKLIKSRIFAIFISVAAVLMALLLNLDLILLAANFYLPVITAPLLL
AIAGFRTSERSVLIAMFSAGVTVIFWQWLQAITGVDSVLPGMVMHIIALFAAHYLLGED
GGWTGGGTSSGAGNSFGTGRDGTGTGIGEDNKRILSRERVQMAWQELKDFNILSYCNK
RLPKSWIYISFSFIVFMTIVPIVSIEKDLNMMHTGLISSLQAIVFAIGTAFRCRGFWPK
SIKEYLGLIWYVSIFTGLALISSFLVLLSKFSHMSLTILTIHLIMISLLVGWRMSLVM
PAGLWISFSFYEGYIGEMVTGEIYDLKLTIVLVVVTGFAATIIRNRQEHLEQTEHKVG
ALETEAITKDTKITLNKKVCHYSERVSQAREIERLGATAQKILNNVNHELRLPVGNVN
NFAEILRDGLEKYDKEHLKMLSDEVYQNSNRLSSMILNMLDLATLNAKKIELKKEKINFS
KLVHERFENCRNIYAQDKKALKFHLNIEDNVIVFADINYIRQMIDNLVINAINFSEQGTI
AISVNSEEFVSFTIKDKGKIPKTEIYDIFTPFKMGSNTESKAEGRGVGLALCKAVIEA
HDGEIKAESRPVGLFRVCLPYGELKEGK

>gene_657|GeneMark.hmm|77_aa|-|1975|2208 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
VRQNESEELTNLIQKHFGFLTDEIVDVLFEPEARDDAGGVLTCSQSEEFALKFDDILS
QSFHLFSSDLKGRAYSQ

>gene_658|GeneMark.hmm|107_aa|+|2260|2583 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MLYNNTPFKTLTENTPDELYEWIDEVKNTFLNKFKNIELIAQKDFETLTKVVDANNRKEQ
AKHIAKTKYPKLVFAMLDKDFRSMIWKMLEPSKESPFRLRKNPVTV

>gene_659|GeneMark.hmm|341_aa|+|2637|3662 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MTAKNSNKINKKKQSKSTNLAKAEIEKPKLKHDEFMKETLGRRLTAIDFVKDHLPAKM
QEQLDLSTLEVEKETHVEKSLKRMSDLVYSVKTKKGD DAYIYMVLEHQSSVDRDMALRL
QRYQLLLCQRHRDNKEPGKLPPIIFPLVIYHGKRYTAPLSFWELFDDPEYAKEIMAGNYT
LIDLRAMSDDDINYDRHHSFAAMKHIYDRDTLKMQLLANCKIAVSLDKREKYLFLS
LIEYTPKVPKREELAQVIQGHMSKEDGVKFMKTVRDSYIDEGYVIGEKKGAEQKSI
QIATNLLNQLDQKFVASVTGLSAHEILKLSAHNSNDKS

>gene_660|GeneMark.hmm|91_aa|+|3686|3961 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MNKAEFVSHIAKQYNCSKVRADIIINMFTSSVIDALGSGKEVSLAGFGHFTVSPVAARTG
RNPRTGEPLQIKAYNQPKFKSGQRMKDACNR

>gene_661|GeneMark.hmm|152_aa|+|4242|4700 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MSTSKLQNVGVFILLIFISWAVYADESAATIQQATKHAASSDKEIHLAYLQCYALQEND
KKQCHQLITQQFNLDREPSSQKYWLYYSYEAERLGFQWFLNSHNKSCAKIDHGVLFNQAT
NSYDVICADGNKFKMSFSYKDNSWTLLEWLIV

>gene_662|GeneMark.hmm|201_aa|-|4697|5302 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MPLSKLGANLKLLRESAGLSRNHIERNYKIPTGTVLAWESNKCLDIKLTCLMNYLDVYKK
LGFSVTIDSLSEKQFSPVSCKLSILNNFLVSSFGIDLLQKIPNLFYSDRDENILYLNP
LYHNTDSLVDKERMNANTLTAGQMLLKANNEYRAQIDEVLKGKTVNAEYHHAGDHMLKIQ
LQPNIYTHNKTIGFVATIVN

>gene_663|GeneMark.hmm|100_aa|+|5539|5841 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MDNNQTYHLDPALSTHMNSLVVQAFRELGDSLADNLAFLIEVLEGEQNCNVRTAYMRI
KDKIAENLDNILLRHS LAIIDEIRKEAVFIDTICSTEREF

>gene_664|GeneMark.hmm|131_aa|-|5933|6328 >NVVL01000028.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18079, whole genome shotgun sequence
MHKQELATTRESLQLLLAKEDIDMCVNRVHSSSSTA EYKYCSADLITSKLLETEAPALEE
WESLSVLP AFNSKDSFVRSMIHTHIAKYCTFLVGILYELQSSKNLAILSVKFKQELAEAN
FHKANPGSQSE

>gene_665|GeneMark.hmm|482_aa|+|3|1451 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
EMEIIKAENSLYESGLGAVRGKRALVVIMFAQKFAKTRNRIGQTEWEGSAKLLADDAKVS
VSTVRNTIDYLADHGF MNWELG LLQFQNGDIKQGHHSYYPTE RMTRLIDQVDPIKSAER
AADDGMLQAHVTVLNYGEEIDQNDLFSYWEQTAETIGGQNI DHTCLESRSKDIYPTPTVI
KPQRKHIGNKQMRRNEAIPVQATLAPAPLRDTKTSKLPNDISDMPNTKTVAFFPFGKKV
LEMHSTQKRRDSADLLELEDHEINLGNMPIAADGMEARELILIGLEALIISLALRQKDPE
IISGYDFECL ENAPISTLAKAVFNSAYLALGANIITSGAFKAVKSSGTITILALLD TTL
KKISRTAIPK NPFQYWRSTVKNSIESADPITGLGSAIKTHSAVVAADLRDFLT KTSALL
ATEWVNGQAERSAE EILEAHKDIRQKRGDWSDTMPYIDHVKMAFENRTVQNRTLFFPVGL
MF

>gene_666|GeneMark.hmm|68_aa|-|1523|1729 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
MKKTRTTPDRKKQILFKPMKYWRKKRGFSQKEFAESINKPAAHVSEFETGKRSVTEVWIT
SICKSAEH

>gene_667|GeneMark.hmm|135_aa|-|1803|2210 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
MLKYYSLENHTDLKKQIMAIKRASKINSKFKTFERMKFWRKQRGFSQTEFARKISKQPQH
VSQLESGNRGVTDDWMHLYADALNVSPIVFF EAGIDPISEKISADVAQHVKKLTHPQKIK
FYMTVLELVNQPIEK

>gene_668|GeneMark.hmm|112_aa|+|2615|2953 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
MYPSTFRFRHGSNLAEKLN AEDNKSKVIKQALQQY NAGPTTDPEIPAVWQSVNRKLSG
VSTNINQIAYAFNRSSKKNVEHLPPVESLLELNKQVSNIISELERLTIESAV

>gene_669|GeneMark.hmm|587_aa|+|2950|4713 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
MSKRPRNPWEQRLRAPTYRQQKVTIPQKFEKSKEVFKVLSHKTIRGVVNSIAYNADHG
GQDEENSMFDKNGVQLTPEEITKRIDNWNLIRDGYENFSKKAREATPVELREMPDDEKYY
LRQSTHFMI SF PHEHNELTDDKIHKIVQDAIRPMTDAGHHALYAIHRHQNKPHAHVVMKY
RGYNNKRLELNPHQIQKIREHIVEVAKEQVELTATRRRDRVQSLEKRLPSIENYKAAYL
YREMLKQKKDFDKAGLSAEDINLALSINERRDQIKKYKSDKIYNALGKKIQKLEAKHE
KKPSDKLRQNIAGLAVQRDGHKVAIDAEMNIRAQRVNKPEDLVYSAIDKSQLKEVKKTLL
GDYEAVTQ NINDLKLTRRHLENVAP EMLKQSKGDFVESKSHFDIVLENRNITRASLIK RQ
APN WYASHGLE YELRRSGATNTDVPNPYPNVRLPKLAMKTNQELKKFTEANYMDPEAARK
SFLIMAADNSRTAFWYANKCGEIFGELKPKDAKRIEISSRDIRLSKDWKDQAKVSIKSAYS
NVSDNIESYHQEIADKLSRNNENVNQVGYLMNSVEKEGLTKAVYRSG

>gene_670|GeneMark.hmm|217_aa|+|4942|5595 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
MILTMLNNIKILVVVTISILGISLASAKAETVIIDGTL SYWYEGSSRH SKYKLIQEDYPR
INNEG YLLPPKRTLIDEDGNEVPYSLEKHLERIEIIMEERSYNFEIVCDLDVARHKMFV
EDPQAYAGMLRNKQHPCEMSPGHISAHRIKSAKHIFVLD FIDEKEIHVGG LNRSH TTF
DDLAI VSLGDLRAGVNF SIKNEEGFLKDRQVNLKIRE

>gene_671|GeneMark.hmm|227_aa|-|5789|6472 >NVVL01000029.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18225, whole genome shotgun sequence
LAIDDYLAIPFAVLMFIIVMTVEINTDGDITGVLTAFR DIGLRLGLATI ANGEVDFES
GASSAGIGALLCKISDVYDNF WELTTTLWESISFY EIGKMFNIMFL TTPYFILDKLLLI
TL LIEFIVFYGAALLMPAGVYFLMFPKTRTF FMSLIKIMLGVM MKLYLVVINGVILTTF
EVANSHAGGEDKTLDFYSADFLYMGLSGWILIHLLRRISRCKSDV

>gene_672|GeneMark.hmm|116_aa|+|2|352 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
KQIDKIGNNGEKVMKTIADGRREEGWKDG LAEGREEG REEGREEG REEGISIGEERGEKI
GEERGEKIGVEVERKKT VARM LKENFAPKI ISSITGMSQRAISK LRSQLELQ GKLV

>gene_673|GeneMark.hmm|98_aa|+|440|736 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
MLKQIDKIGNNGEKVMKTIADGRREEGWKDG LAEGREEG REEGREEG REEGISIGEEVERKKT V
ISMLRENFAPKI ISSITGMSQRAISK LRSQLELQ EKLA

>gene_674|GeneMark.hmm|61_aa|+|760|945 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
LCFVICPPCGGSGAEKHGNSMPSG EFLDSAFR KLLLAGLEYCFEIRPSFWGDNSRPADVA
S

>gene_675|GeneMark.hmm|835_aa|-|942|3449 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
MYALQVLLLKTQVLLYN NCVIFIMLGIPMSNTENKPNADLYEADSIKVLKGLEAVRKRPG
MYIGDTDDGSGLHMMVYEVVDNAIDEALAGHCDLVRVIINKNGSVTVSDN GRGIPVDIHK

EEGISAAEVIMTQLHAGGKFDQNSYKISGGLHGVGVSVVNALSDWLELRIWRNGKEHLIR
FRNGDAEFPLRVEGDGNGKKGTEVTFMPSANIFKIMEFCYNTIEHRLRELAFLNSGVRIL
LVDNREEETKEIELLYEGGVQAYVEYINRSKTALHPCIALCSDNKQGITVEFAMQWNS
YHENILCFTNNIRQRDGGTHLSALKSALTRVINSYADKSGLMKKAKVSITGDDAREGLAC
ILSIKVPDPKFSSQTKDKLVSSVSRPVVVESSVYAKLLEWFEEHPSEAKAIIGKVIEAASA
REAAKRARELTRRKSALVSNLPGKLADCQEKDPALSELFIVEGDSAGGTAKQGRSRKTQ
AILPLRGKILNIERARFDKMLASEQVGTLITALGTSIGQDFNIEKLRVYHKIVIMTDADVD
GSHIRTLTLLFFYRHMMPPIIEKGYLYIAQPPLYKVKRGSSEVYLKNEQALQDHLVSGALQ
DASVKLNTGEEVSGAPLEEMTSQIVKFNSRLSNIAKRFDSNIAECLAINDLLKTESFTSS
KKDELVAALSPLNLGDAAPDKTDWEVSVSEGSIEFSRLVRGVKNTKTLTYREQAESSEFIL
LNKIGQKLERFFLGKCELNVKSQSYQISLPSHMLQLITESGKKGLTVQRFKGLGEMNAEQ
LWETTLDESEKRTLLQVGVNNIDEAEEIISTLMGSSVVEPRREFINKNALNVTNLDV

>gene_676|GeneMark.hmm|292_aa|+|3448|4326 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
MAGKFMTQLEFKQLSAAIDDDYDLILFDIWGVIVEGGEVYDGVVDANKVILQKEVIFLSN
APRPAFKVINTLRGWGISDLTEEMITTSGLARKIILQKKESLGGRNPIYHHLGADRND
ILSDFDHLTDLDDKAEVFLLSIYRDDNEDIHEFDELLKQAAKPNLLNICSNPDTTIPK
RGSRLRYCAGYFAEIIHQHGGEVVYTGPKTTIYDEIFRKKPNIKKNRILMVGDTFETDIL
GANDSGIHSALVLSGNSEPFHNMHSAMEDKLVALQKRGMKVGSMPNFVTKLV

>gene_677|GeneMark.hmm|143_aa|+|4330|4761 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
MFSAPCEFILENEQDSKALAQKIATNLKLHDVLAFTGDLGAGKSFFCREIISLGGQIN
VISPTFNLLQIYESKNFSIYHFDLYRLKHQSEVYELGIEEAFDSALSIEWPEIIGEILP
KGSIFVDIKIISDSSRRVSIRKD

>gene_678|GeneMark.hmm|551_aa|+|4844|6496 >NVVL01000030.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18417, whole genome shotgun sequence
MAVEDKGASLESRESGFGEARSREARSKENSTQRRRDPDDFDVLLGGRKADSPEKETP
SANEPDIYQTTATAPGGSRPKSEEKHAEPHIEVAVPPNATSETLAAAQVQEVEPEPEPD
AVQEQQEQEPEPAQNEEKEQDEKATLNAAPTAVGLEDAAPSPTDDEAKTEAIRAREDALFEAR
AKEQEQAIEISASGGKQGGDDDPGEERATDRFYSGGSGGDKAPPANELDQSVINASYINDAV
DDITQAIIRDQIIAKQQEILQAAIAKTLESEARDKFLNLTRLEFRDYLNKQGRGQAEAL
QNSGVQAEIQRIDLEGYRSVHYDFKDRFRNVWEKKDTTSTIVKDGDRICKLTETIVN
IPGQFVTANGEQVEVTSYRKINFPISLENGGPMHLSMAVKDQHGKNISKQDAVYFTAHYN
EEGKLMELSSPVPVKFAGEGGDAIGYIERGGKIYTLVTRANYQAMMHEVGINNGLSTNL
SQTLPSPAIATPAQAAGQEATGQAAGQAMGQDQGRERGQSQPKQRDPSNDRDAPPPPPA
PPPPPPPTPG

>gene_679|GeneMark.hmm|518_aa|+|285|1841 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
VSLQQNTRGGKQNPTRVSLGIGNIVPHYWYKSIKAPSGKPDVAITVLSLWFLHRKSG
GAEFNAGYANFERKDFRSQKLDAMVRLHDDGLLRFRALVINGRTFPNELHLALNIA
SLLAMLPNGASGGGKSGGSSFSQDMESSNSDDGEIFHGEVFGNSVQHSLETPEEHIRNRK
ISLRKNRSLRSEESSFKINDLKEELDSGSTLSATSNSVPSPSDYQKLPANAGLGEFYPL

EREDIAALASSSGREFGMNAVNEILLKLSKCPDHSFPNKA AFMSYMSKVLRYEKRDAVR
INNAHFRI RSNMSETELATVEQERFLAGIENIREVSPMLHLKKK LASVLAPDIAAPLLRA
FRSIRRDGDVCKIYLSRQVELTDLNKELILNQVKATHEGLTSGGAGMFETISRVEIISPQ
PSAVAPEALKPEMLASTTQEPGIWGQVRARLIEYFGADGVAIDQNWFSRLRAEIDDNSQS
LTLKTSSEFFRDWITSHYRDLIERFCKMFGFEFAGVVV

>gene_680|GeneMark.hmm|88_aa|+|1933|2199 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
MEKEFKAARKDNSAQDSLIVLEWVEEQFCGQKILLDLSGQNIHKIALKNGKRIYVVP
EAWYMAAADLIREKKTQKAGGSEDLLKG

>gene_681|GeneMark.hmm|70_aa|+|2228|2440 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
LLKVSQTNLARSWDNATSEFFSTLKRLEVELHNFADQQQAAAAAIFEYIEVFYKIRLHS
TTLISCSHTV

>gene_682|GeneMark.hmm|254_aa|+|2672|3436 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
MRQSLNLELR TETLELVKDYFTQLKMFKVDHIGYREFRKGDTSM AFCSHLDWYDVDTD VV
YKEEMANHYAKELIFLVKNQFDCITRSASSINNKFLQELSSKDMCNSFLIYKNTEDVIYM
YAFISSLNPDALSYFVNQSGFLEELINKYKATFASVFQKSKYQELREQMFSEKVAQHIF
SDLTSSMQNSSFQQLTPKEIECTALVARGWNNKAI AKKLNISTR TVEFHLSNIRNKL NIN
SRNDIVDI AKHINY

>gene_683|GeneMark.hmm|451_aa|+|3399|4754 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
MILLILLNTLIIKRTMKDLSKKVMGSCFLAACLEMYDFAIFGFFSSVLHSNYLSFLDKKN
AMIIAYALFAVG FIFRPLGSLIFGYIGDVYGRRIALILSVSFMGSASLAMFLMPSYAMIG
ILSCYLIARIVQGISVGG EYS GALIYAVEHFNKKKSGLVGGVVICGCITGVLLASIVS
KILQNP ELPEYSWRFAFL LGFGLSAIGYFIRKNLLETPEFKRLGSSRVKVPLIAGLKNYT
TECIGTIFA AASLGINFYFILIFLPGYINKLTGLDVKFYPTLTTVILILSPMFGWLS DK
LNRAQMLKWSMLAISCYSFVGLQLVALYPTYSSALLFFCGHAIIFSIQASTANIFIIEVF
PPQCRFSCASVCYSLGMGVVGGTSPLLASLILDKFDNPTFYLSYITMISFLGYVGV RVI
TSKKERVKEVEPLIAESDLVWSYSYEFENQQ

>gene_684|GeneMark.hmm|276_aa|+|4898|5728 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
MKNTIELRSGISLRESLA AVEGEFGIHASSVDISKLA EVVIPDQIKDEIPTLNRMGYMKT
AVDSYSQEFIDYASKSDLPVLEIGCAYGFVAGRVLENGGNIIATDLSAEHLAILL KKTNQ
EHLERLHLYEGSFPDNVDFPKKSVGAILISRVLHFLRGEVVEEGLDKMHGWLS DGGKLYF
TAVSPYHVAFKEKFLPSFQERSRAGDKWPGVIENLWEIAPQHKEYVHEFLNIFDIPQLEG
LLPKHGFTLDRISLDFPNDTDSAGKGHVGF AATKV

>gene_685|GeneMark.hmm|181_aa|+|5886|6428 >NVVL01000031.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_18590, whole genome shotgun sequence
VTILQKARGGKKNPAREVSLGIGNIVPHCWYKS IKAPSGKPDLVAITILSELWFLHRKSG
GVEFNDGYSHFERKFD FSRSQLQDATLRLHETGLLRRSFRALVINGRTFPNELHLALNIV

ALMAMLPNGGGFVGGSSSGLDMESSNSDDGEIFHGEVFGNSVQHSLETPEEHIRNRKISL
R

>gene_686|GeneMark.hmm|244_aa|-|1|732 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MGRHKLRIKDALKKIHCALESRGNLAAPIIESYCEMIESRMRGQIRSTIISPAISGMVSS
GFNMLGEQIISQMESGTLIEEARLLPDRDLGISAGDAADDEIKHHANSDDPDSSDDEAWS
QNNLASRDELGHFFPIEDREEPHEPATILNTEFGPVIIPSSAPMSFDPEQSPGLEFRFSS
VIEAEFLKMSDEDLQQEYSTLAGGMGALRPEFLYNAREIALSLAYKARFAEQIGQYNVAA
IADA

>gene_687|GeneMark.hmm|92_aa|-|835|1113 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MNKDPVKEYRLLMTEFVNGNIADSQFEISYLDLFMDDKKQGMSEKELYKIISDVFFDVEDY
CSDVTLRDERDIDETELLKRTKAALKKLNDFK

>gene_688|GeneMark.hmm|263_aa|-|1115|1906 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
VEYIVTREYLISLLKAWKNDKITDQNVYDTANFLYPNDEIYYIDWELEGGWDNDNTSIA
QEVVSILEPMDVDGILKEDADAYIEFLHTPIGKYKEGAVKLGIIYESKIDYTKRSEEFAL
YPLSFPTVRNSSTETFVITREYLISLLEAWKKDQITAEDIYNTTNGLFNSKFDSFDWQ
KGMLGSKVSLTQEVACALKAMDKNLITKDDIDVYLEFLHTPIGSYSEGAAKFEKYKSKIN
YAEREAKLSDISPYSKSKNGIVV

>gene_689|GeneMark.hmm|246_aa|-|1912|2652 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MLDQAAHTMHLIDPGSMALNGATNAAGHIVSKTLQKLPESFTNAVAVSYASLMSDCRTK
NQRFAVETMLGVVLVEVGGAGIKAVMMNRGVGVQGVTSKIVDIQPQFKGGGRNPTISEMH
LHNAAVHDISSPARYSGKMFKNTRDQARQFGDNAGVRKAARKFFGSATRGTVGRNTIPT
FAHFKARKVPNGDTVMEFFAKSKEPLYIKRYIQVDRNGAVKLRRQETIIKETGRLVNLK
FNNFKE

>gene_690|GeneMark.hmm|96_aa|-|2799|3089 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MYKIKDFGIFLEKVLKRTNKPSVIGNLAFKEYHNNLPDVEKEVQDIAITLSSMEDGIEFE
YSIDELHEIAKRLTEGDITVTRIGFDQKVNLIKTSK

>gene_691|GeneMark.hmm|607_aa|-|3092|4915 >NVVL01000032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MSLVSSTLSKMASNSGSAARAITSVSVVAQIASAIDKIEAIAAGEFCDHMEHTIHDISS
TLPTTEGILQHMLPSIRANDISNITRHLQNADIIQDNWNINASLLGFEGGIQQLTSAPAT
GTISPTRVSPSTLTASIPRPFEEELHSFAPPASTAATR PATQRRNFDQISGMGRHKL
RIKDALKKIHHALESRGNLATPIIESYCEMIESRMRGQIRSTIISPAISGMVSGFNMLG
EQIISQMESGALIEEARLLPDRNISGISAGDAVDEEIKHHANSDDPNSSDDEAWSQSNLAG
RDELERFLPIEDRPEPHEPATILNTEFGPVIIPSTAPMSFDPEQSPGLEFRFSSVIEEEF
LKMSDQDLQQEYSTLAGGMGALRPEFLYNAREIALSLAYKARFAEQIGQYNVAAIADAIR

ATIGRMPVIGDIAAEGAISTIEHITGQPLHKPGELPAINMIGNRVAAGFGGNISLDSTAP
KPVNVNRVPRINQQPARDNVQNVNAQSAKAKMSSLQNAQTNAVKTRTLDDGRIRYYEKE
RLARKEGITRGSSYVTEYNPQTGRVSSWNECYDHSGKVIRVHPKTKNGMVLNSVHFPLTK
KELEESR

>gene_692|GeneMark.hmm|161_aa|-|5029|5514 >NVVL0100032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MVVSAIVNSIKWTRKNKPITEEQKLLQKIPFIFPTMFIQLLKHSSNGGVLDDYDFNYCDIE
DKRVMENIPCIYGVVELKYDNLKEYHAPPEFFSKNIVAFSDTGGGNYVCFDYRSNPKTD
NPPIVYWNHESCEGEDVSFIAKDFESFLRMLKEPEYDDDEL

>gene_693|GeneMark.hmm|223_aa|-|5496|6167 >NVVL0100032.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19237, whole genome shotgun sequence
MPVIGDIAAEGAISTIEHITGQALRQPGLPAPNTIGSRMLGFGGNISLDSTAPKPVNVD
RVPRINQQPYDPRAAEALVQERFGDGVKIVPRTVPRSNAPNVRLAGTRHPETGVVFDNR
GFPIFDDHVIFDTRIPSKVSRVENSKNHMRAATSDLRQKIDEGVVNPNMFNAEQLEAINN
CEPKIPNYTWHHHQDQSRMQLISTELHKTTSHIGGMKLWWFQR

>gene_694|GeneMark.hmm|82_aa|+|3|251 >NVVL0100033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
RKFRKSNALKKEQGNSRIFKSKSGKSILRRVGGKNGIQKLYTLTDLKAHIRPRFGFQKMAHK
VFIRHFDKIFQRQLDHTLKTAL

>gene_695|GeneMark.hmm|67_aa|+|412|615 >NVVL0100033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
LERGIKNNFIGSPVFFKRRKPLRILTVAQGSRRRKAKTQVPQQIALNLEPTQKNEMPHL
PISVWGV

>gene_696|GeneMark.hmm|91_aa|+|694|969 >NVVL0100033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MVLTIEMIMEHIYANLTASISELKKSPALLNSSNGEPIALLNxNKPTAYLVPAxLYEQI
LDLLDDRELLQIAKSRLNEESKAIRVELDEL

>gene_697|GeneMark.hmm|82_aa|+|959|1207 >NVVL0100033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MSYKLDVFAAKKEWDKLDFTIKEQFMLALTIFFMRSLQKQKRRLESKVEREQKAIADLP
ELAITVLDYVKNHGRVTNRDMA

>gene_698|GeneMark.hmm|276_aa|+|1392|2222 >NVVL0100033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MSFFLHPNPKILRKDKLELMFHSNEEIIYQNRDDQLGDMIPFRHIFVIYFCDLQDTP
PNTTQNSYSLIVEQYKKNDEITYKAYFGYGDLSLRVKSEIDFIDSPKGFSGSIIINHLIH
WGKQNYPEAKIKQLYLSAHEEDKNNHIRRDRLYNKIGLIKYGFKHLSDLKPSCDERDF
EVIDAYKYINQILIEQDTLRSTKSDLKGDLSYLEECSKQEKQEIKKYKILDNPFRTAY
YLCNTIDNIIIGYVHWLWLNKIASILKGVANTKKQDD

>gene_699|GeneMark.hmm|93_aa|-|2330|2611 >NVVL01000033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MSKLIQLIKFLKSCYRKVYVYVYIFSTRKNWHISKKNKYYNPTYKATVYWYSGFGRNSEIK
EGWSIARFGVYNGYKSREIAQEQAFKMWMRQR

>gene_700|GeneMark.hmm|86_aa|+|2666|2926 >NVVL01000033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MLFSLCYKKLYIFSCIFTIKGGKGVINLSLKHATKPQIKKERALMKKSYPRLFSGGITTN
QRKTYTLPSNVLLFIGYKETIFDTLK

>gene_701|GeneMark.hmm|1056_aa|+|2923|6090 >NVVL01000033.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19549, whole genome shotgun sequence
MSADKVTDLIDYWIIVERFTPYEVEMNNKFGYVESIQKVCAEDIAWKNKFKFKHKNTKS
HNWVYTVFLGIIKIDDINARIKDLLGSDVNDPSWLKSNSSSCIGCFQVNINGKPIKGTFE
VPDYFPNICSQAQRKSLPKTWLDNSCVFRRKITDRFENYCDALEQENNHNSLGYNDLQIL
LDQIIDDLSLWPELTKNLIKNIHAVIAHAKLPKPKNPQEDLVTLPDSAIHNSFYTKDLEN
IRMDGRFGKGFQYEMNMIDCGEKIDLFGKQGALKEYSHPNYLSGARWPVAGNYPLSTAQQ
IAVNLALKSNEGLFSINGPPGTGKSTLLKDIISGVLLERSRILLTDNANDAFESSVSVS
VQGYNYKTWRLIPSLGHEIVIASSNNAAVENISKEIPRLREIDINLEQDVDYFSEIASY
ILKEDSWGLAASALGNRKNCLDFEFKFWYKPKKNPVVKEDYYYGLEILLQNTTDIPDWD
KAKQSFKKVLNQYDEIISELNKLYAMSQSLSGNIFDYHVERLDLEEEKEQLTDKLED
ARNQLLYLHKSLCDQNEYHVRHVQERSSGIGYLIDLIFNRERIRYWLQEYRRSSCKLLSI
CKSINTAEDTVNQLEKELRNKASRIRILNEKTHIAETEYDQWLNIELEYRSKMGDNFPDD
DFWQKDDKEILLSSPWLFEELHEIRKQLFIESLKLHKAFIFNSSKRLNLRNLCMHRIISS
NDWPVSRDILLPHIWGSFFMVVPAMSTTFASFSTLFRGMGRESIGWLLIDEAGQAPPQVA
SGAIYRAKRSIVVGDVFPQIQPVVTIHEVINNALLNYYNISDQWNCLESVQTIADRANIY
GTFVGNSENKKWIGCPLRVHRRCADPMFKVANEIAYNNLMIQATESVEPLPGAMASSQWI
HVPESVSNNNWIKEEGEVVQNLLSKITGELGLPPIIYIISFRNVVFNMKQLSHNLDKW
CHTQNTQEIKLWINKSVGTIHTFQGRESSAVILLGGDARKPGVFSWASKTPNLLNVAI
TRAKNTLIVVGNHDKWSKMPFFQVLARSIPKQNIKP

>gene_702|GeneMark.hmm|146_aa|-|1420|1860 >NVVL01000034.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19779, whole genome shotgun sequence
MDQTLRLVQNVETVVIKEMQRAIQLAPHSLSDRPVPRDGGKCAVLIIEGVRATHQLCERLR
DALRHLLQLSRQILGSGEGDVEGSGVGVVVCVDEGHPEGDSMGRRRSVGDECVWQIGISP
DLGTDEVVIVSLVALRLGLDRGIIM

>gene_703|GeneMark.hmm|89_aa|+|2420|2689 >NVVL01000034.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19779, whole genome shotgun sequence
MLECCINGDVMRPKLIGGKVFVRGYHLQFMLELFKIEKIEHRMSIKVVVQSVSFASFVHNN
HDVMKICVDVSPSLYLTSENDNNSIFQK

>gene_704|GeneMark.hmm|50_aa|+|4495|4647 >NVVL01000034.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19779, whole genome shotgun sequence
MKARILDYQTVNQNTLNQLQFELRTIDGKLVGFEGSQNTFINLIFRLIIE

>gene_705|GeneMark.hmm|86_aa|+|5313|5573 >NVVL0100034.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19779, whole genome shotgun sequence
MIYYYYLFP L SCLKEFDNKKEIKVFS DLYIQCVLNSADIHIGGIRHIKLLLYFFIVIDAKK
KCIILLFYPKK TMLTYKCF SQT SLLV

>gene_706|GeneMark.hmm|104_aa|-|5700|6014 >NVVL0100034.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_19779, whole genome shotgun sequence
RETAGVSEVSLRPLERSARSREKPREMQLKHLHAQHFNETVLCSSRRRRELQLARNNQRD
IKMVVLV P A R P H G E V R E K P K R H K N N T A F Y E K Y K N I L T V M N V I K P

>gene_707|GeneMark.hmm|110_aa|-|3|332 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MQSISSNIKQIAKQLDHMQKRQLPFATSTALNKIAIAAQNSITKAIPFIFNNRKKWVGK
NQPTGIKVKFANKYELVSAVYTRAYFANIQEEGGIKTPRS GHKLAVPASG

>gene_708|GeneMark.hmm|148_aa|-|347|793 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MAITREEKSNSRLMQLFAPALVGADQANIAAIDVSGFESVLV VANIGAAGDDL NQDN YIE
IELEESDDNAGFTHCSDESMQDAVAGTNTGTIAHLEAIDGAGISVLAAYKGRGRYIRPVI
RMTGNHGTGTIIGVSAILRGTKYRPVAA

>gene_709|GeneMark.hmm|172_aa|-|1032|1550 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MKMKTVKLNTAKLNTLKLQTTK P Q T S K L P S P N K N D K R P I A K F H R S W L Q D T L S G T P L E K H R
GINQAQYAAADRLSSNYQRIFSNGGWSP E E V Q V K Q D Y F R S N G V E R K V Q A I I N H N R I F K Q L
SKNSQAIIEHFCLNEQPIRAYELKQIPNWPKGAGTARLREGLDELVEIYRNS

>gene_710|GeneMark.hmm|769_aa|-|1835|4144 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MSNIIQMVPNALPQRDQLQTFYVLF G Y S E G L I P C R S F P E S G T D N S Q R P H N I W I D A D E L V
MDKVVTFAKWTAREKVAFYVIPGIVSKQGQAGSDDIEQM QVLLIDIDSGDTEEK L K I L T H
AMGQPTMIVESGGITPEGS AKLHIYWQLERPAAGDDLQRLVTLRHIALAAGGDTHFKSA
HQPIRVAGSIYHKKGAHKLVKIRSYEPLEYNLEELIKSAEKLPLPAQTSTSEKITSPLDY
NNAARSF D H I I T S K V Y E G A E G E Q S R F S H L Q R V V G F W L R R L H E G A I T Q Q Q A W E E I T G Y N A A
NVVPAWDEKKLRQLADGLWRKHVKKHGEAAEAREAREIAEPVTNVNTNSNKINAIDPSTW
HGEPK R Q W L I E D W L P R G Y V T A L Y G D G G V G K S L L A Q Q L M S A L A T G Q S F L G K V Q P K M R V Y A
LMCEDDASELWRRQVAINKHYGIDMHDLSNIRLVS R V G N D N L L M T F A N D D V G K L T K F F E E
LQTDILNYKPD LVILDTAADLFGGNENNR P Q V R Q F I Q T A C G Q L A R K I G G A V L L C A H P S E S
GMQKGTGSGGSTAWNNTVRSRWYLKHPEAGELSSDHRILSKVKS N Y S A K G Q E E Y F K W Q D G
ALVGLDSAYISKPVIGQKQHKNNAERDRKTQLMLRLIDLEAQQGN I Y T M N Q F A E A F E D Q
EDNNYGF G S K R S I N E R L S I A S T Q G L M K F F N D P K L Y G I D I K S N Y G Y L C C E N T M L K I G E I I
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>gene_711|GeneMark.hmm|264_aa|-|4207|5001 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MFGGRIMLDYNKIAKTSSTPINDQLNILIDDALVKIRDTQPKRRYLGASRVGVSCSRL

QYEQSGDSKDRGKGFSGQTLRIFAAGHVFEELATQWLRDAGFELLTNQEDGSQFGFSCAG
GNLAGHVVDGIIIAAPKALGLAVPALWEMKSMNNKSWKETIRKGLVSKPVYAAQIALYQA
YMEGAVVGISKNPALFTAINKDTAELYHELIPFDGELAQRMSDKAANIIRATKAGEMLPR
IASSDYECKMCAYQQRCWGNRQ

>gene_712|GeneMark.hmm|170_aa|-|4988|5500 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MQFNDFNNAETSNFLIRKGTAKVEMKIKPGGYNDEERGWTGAYVTKNEVSDACYLNCE
FTVLNGEHQGRKVWSLIGLYSPKNDNRWGDIGRGFIRSILNSAKGYSDSDKSDKATGARI
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>gene_713|GeneMark.hmm|111_aa|-|5490|5825 >NVVL0100035.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20288, whole genome shotgun sequence
MQIDGSKTELELPQVITMAEITGDDERPYRAFNHTINPYGYPAKDRSGCLEMLEE
AHLGRLMEKIKRARQDGNLTYDMAKESANNLSEQSNKQSNKQNKENNYAI

>gene_714|GeneMark.hmm|171_aa|-|1|513 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MRQDNKRFRGRLGIFCR LAVLQIAIICSPISAFAGVDKLIKNVFPGTMSNVTRGGVVE
HQSAGHLMGGSVMIRTPANPDLQMLHVQAPSCSMGGLPCGAQFEFFGGAASLMKLPAMLQ
HFQGLAKHLGIYAGITYIKTQCSFCEDVLEWMDNKADFLNQLANTNCQDMM

>gene_715|GeneMark.hmm|347_aa|-|510|1553 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MIRNKRTLIRGMILLQLGLAATAPVYAVSSSYESSPSRANIPSSRVVGTSMVMDTSVTGVG
AYSSTIDGISPSGASSNSTTKGASAFFGERYRGWLWFEEKEALVPEGLAPEAAEADIDE
EAEFIPPTKEEMQRAKTENDVFKEELELMRHMIRYPENLDYVVMYKKKEQEMHEGARKL
SRSWVMANFLNPDMTDELENPQNIYGRKLQKSLQKKQDKAALRALSSQIEIFVFRKEDCP
YCKTLEKHLSSFARMYGFKVEAVSADGSSSQHFHTHTQKELIEALSLDVMPMVI AVTNDS
SMRFELARGAVSILDLENKSLMLVRYLESKESGSAAGQELNNGRR

>gene_716|GeneMark.hmm|374_aa|-|1546|2670 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MQVKMIARYMIKTVMVLMALCSIWAGSLASSFADTSFRSNYPCHDTGKRCVSSGTRMIDG
FEVHRDCWEYSYTKKCDYPSKDDCGRYAHCYVLGDRNCLLQDSAGKCVNMRKEFSCKEWD
AVNDEKHTVRMGLEEKEGARGVVCKGVPCMDGNCVDKSYETNGEMMDSLSKLYSTTQMNP
DKDGNFNLFPGSHDHCSKKAAGYSNCCRMGKQGWGSNLGAKCSEDEKSLMEQRSKNLCIY
IGKKTNKVAGVTTLVKHHFCCFGTMLDKVVQQGARVQLGMSFGNASSANCRGLTLEEITR
IDFSKIDFTEFIDDFRAKFAAKYSPPDAAGIGAHVESVMGDI AVFDENDPNPENNPENNM
TGWRQNIIDEEDDD

>gene_717|GeneMark.hmm|405_aa|-|2655|3872 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MGVVNLGNIGSLVNSILLMSCISGAILFWCSPSYADHLDPTFRTNENEQTDLFEKNIPDL
RSFEEQIKSDRENAIHGIGNSESDVKMQGIEALSGKSISEVEAETERLSKIPAMELESTG
RAKLEDEILDDLWLDGSKPGNIRHKEDAKRLAKAQEGLLANMLGDLKDMGIECGQVRGN

TIREPAYYLQLETISRRPDTRYEQMFCESPREYNCRQFFNVRCTNKVSKPLQAESFATN
MPVRYAPRTGILTFGWIDNLSHIGECGEVYDYNIEFDLNDLRNVTEFKLLNVSFDDHVRI
TVNDHQIFMAPEQGDRELTGERSWRSRYFLVKVDESRRYSAEYGTRHNHAPDIDIRRH
LKEGSNSIKVRLIVGGGGGIWLKFRAKVAECENWGISREEQCRLK

>gene_718|GeneMark.hmm|271_aa|-|3872|4687 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MEEEKLLFYVENRIVKKSLLVLLLLTLVSVMSSSTSSFAKEEEAEVSMETKEWAKGLTEETR
RMSGETKKWVSELTTLTRDISMDAIKAKWQELQVMRMAKGEIDDTEIDIDNIDSSLTENI
GLRVFISSMSPSLLRQYGQAKKYGAVLVLRLPTGASGRGSRWKLSELVMTISGTSPG
GTSAGDASIPDASAEGIGIQLDPASFEKYNITSVPSMVLAREEWSLDDGQEKETGEFDKV
IGNIGLRAALELFAEDGDLADEARSFLEEAG

>gene_719|GeneMark.hmm|342_aa|-|4657|5685 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MKNNPGNILILVILLVPFTSSASFTCHGHFVNPLSDVCWGCVPPLNIGGFSIGKGSPPK
KRDTKNPSSPICTRAGVPMVPGISIGFWEVRLVDVTRTPYCMVNLGGIELGSDKSKI
SAHSRGRGGNGGTHSSFYHVHYVYPLIYWLELITDFMCLEAGTFDLAYMSEFDVTWNDP
KLQGLLNPELILFANPLAHASCALDCASATISMPIDSMFVCAGCLGSMYPFSGANGAHVG
GVKTSSLLVTRILAKMHRVGLAQETSTSSAxIDGxICRKSRAFKIKKSQYxxQMVNPKTT
SGGIGCWPLGxTDMMYSAFKEYPYDGEDWGYLIWRKKNCCFM

>gene_720|GeneMark.hmm|42_aa|-|5694|5822 >NVVL0100036.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20327, whole genome shotgun sequence
MHPHDAPILYGMILLDCKAALQERPDLRKRWSHLGRELLVKVD

>gene_721|GeneMark.hmm|188_aa|-|1|564 >NVVL0100037.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20496, whole genome shotgun sequence
MNFSKEEILIVTKATKTLIVPKGIKKLICTEIGLETILNNEEVVVDxHNNKLAKLTPVN
SxTHLDCSHxxLTKixVPDSVTHLYCSHNKLAkxxxxxSVTHLYCSHNKLAKLIVPDSVT
HLYCSHNQLTILIVPDSVSVIHLDCSYNQLTILIVPDSVTHLNCYNNKLAKLTPNSVTR
LSCSYNKL

>gene_722|GeneMark.hmm|290_aa|+|817|1689 >NVVL0100037.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20496, whole genome shotgun sequence
MKLRIVILFISIIAIITMTSWAVRHSFAPDKHMIWAPDEYVDMMIEDVNGFDTINSW
YVKNNEKSTCMLFFHGNGNMSWREYMVNMTKEIGVNLFMIDYRGFGKSRGNPTQRSLE
DGESAYRYITKKYKNCIIVWGESLGGAIASHVASKHKRCLVLLSTFSSLDDVVLEYHG
NYAIRYLMSLLIKYIVEEMPIKSWIKCVKSPVVIHKSDETIPFEVSNTLFENISHEQK
THIKIKGKHSSPEMTRDNLMEILDICGISFNGKTITKALKCIDNIKFPV

>gene_723|GeneMark.hmm|600_aa|-|1679|3481 >NVVL0100037.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20496, whole genome shotgun sequence
MDPISHEKQRPSSNKGMEKKRISEDEILNDDRKALEREILNNTSTCSSGTIDLVSWRIS
PLNILMTKNGLRNYYDPKVMESAACLVNSELDTNKNDVIGLRIKNWLTNLRRISEGVG
YALSIVGLGNTKDVFMKTPKSGNLLHEFFVGIVGLNKLKRIIPNFVYTLGGFGCPAIV

QGEELVSWCGGSDSDSDVDYILYENVVDQSITLKEFILGGCSTDEYLNIIYQVLYALNIAGK
EIDFMHYDLHTGNVLVRTISEDEVYVPYKIGESVHYLTKYLAVIDYGFSSIVHKGMDY
GIYGFEDQGVGRHEPQLVDVTKLLSSSITDYLDKEQPNLGLGVAMGSISKLLDNNQDIHV
EFTYKMLREFDPKFVTFYKPYNVRVIGCGDVGTTDDCIEYKNVPIMKDEEVKIPSSILD
LYDICFGLGKEEKYEQFDKMIESFDYKKHLMASMKEINSAHSKIEKSKRKYLKLKSIKRI
MEFSWEYIPIYFNTKTKDFVNIRVFRDTKVLILLIKSVHYASTIYNDVDTTNRAARYIK
RTKTNNLRNASTISEMISGINIMSELSYKYKPGYKDKYHKYFYFPLGELKLLMDSIKL

>gene_724|GeneMark.hmm|685_aa|+|3579|5636 >NVVL01000037.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_20496, whole genome shotgun sequence
MQVDPTSSLCRVVSSFAPKSEPTNIIPFRLGDVEVKVIQSNKNQIIEYANLKSHSLLES
IKNRFDNPKFSKSRNLNPFEEIGNSIFMNRAVGKIANVDAVLRLTNIQSGYLNRYSDHP
LYAAIAEAPGAFVQYLQYRFNNSKGFGLADSEITWNYDLIKCDNFTVYNGEDGTGDI
LNNYDSFSREVLAEHADGVLDLVVADGAIDSVGRENKQEQDNMKLIYAELLIILTICKTGG
NCMFKVFDYTKASVHLLTAALSFEIYIFKPISSRPANSEKYVVCINRKENIEKYISA
LVSCVKNGDNIYSIYTTIPKDFDEWVTKSNNFHLQRQITYGKKIIAHMRNTKIRVDLYDL
HKCNILWNIPTTPLSDVMYKRRDISSRLSKKYTDDIEPIFVKGTHKHKGFLIQEIID
GGTIMRGLMPYISSINNTILAWFMSDDTDIVSLSLCAKLNKKKVIFVGYNSNTSGELVK
ISRSYGAEVKVIHGVSSENTAPSLDTVKKGALSYYKGNNSVHMINKSLGDIRFISKSYSSES
LNDVIRFVPGRIWISSGNSMYHNIQKFRNVKIIRVTTRHNPRASKEKNVETRGSKTQKN
YETRVIPIYSSNLMSDGKIWELFLKYGKGDYIWNSSYSPKPLNVGVNDAPTLSFEPIELK
ISDFGSTKSIGAMKYKVPILSFPGV

>gene_725|GeneMark.hmm|60_aa|+|3|185 >NVVL01000038.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21498, whole genome shotgun sequence
AQEGPTPAQTRKRRLSQVNEEKEDHNRSTISPKHRKGLPALQEKSRREIQEGVRTNRRYL

>gene_726|GeneMark.hmm|678_aa|+|679|2715 >NVVL01000038.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21498, whole genome shotgun sequence
MLAESTSLTVYDCNHDKVTYQAIDLLEPQPCCDDPDTDFMDPTERRVQILNTEKDRRIIAY
ACQVFVTKIEHFCGFDSISYSGSKITENETPVDITPSVCREAVKGGKMHLTEWGTKYELGP
TQTYFDHFYSHGSLDNKGHCERETFTSGGIAYTGASESIFINIRLKKIRGILDVSTGLVQ
FSTGISVPYKDGVLRDQTEGTMVWDLEPPKCDSTLGELYQGKGLLHQKKTGLLSILLIK
DNQTGQYTGLTLQMPTSICGMECRGTQIXGVVACLLREYDSPLPLVEPXFPPNSLXMDVL
SQVSYLHLSTNLKMHQNFRELYQQTCLLDREQLVLKQLADEGSPYMLTDLFPPGHRTY
RAGTVVYIAKCVPLQAKRISYPNCTQEIPVEVDGVRRFADPYNWVLQDHPNEAPCSDLTP
IRWKLEGQWYCSTPTIRPCDAPDKLQLPPQYPALVPTEFTRGLGTGLFTKIQLQQAHEFV
LAYMARAPTLAKLVSSATRQMLGGSTLGSPIGIDLEELTDRLSYHLLPLFYLLGNLYHY
VVAIMIFWVVIKIVTGSSVRAYILWIEKGGGWWILAACWRTAYEVVRSPTLLETTTTTV
TEPVNQYPCVEQYPLEEGTPDQAYRVSVIHTTIRRNQRQLAVLENLFRHTPIMKRQLY
EDKGAGEDRDRDSKEESP

>gene_727|GeneMark.hmm|69_aa|+|3519|3728 >NVVL01000038.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21498, whole genome shotgun sequence
MRKEGMPLLFRKKRWRKMGKRQNILLPETSLSLPSRNLLQQSGFDQQACIHVYIQPGED
PPDEGTGIH

>gene_728|GeneMark.hmm|76_aa|+|4053|4283 >NVVL01000038.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21498, whole genome shotgun sequence
MWANIFVDTMGGKPHYRERNRERSITIGKRNTQKVVKESGCKHWMGTGHKEGSENMKFKSL
CKCQTTLKTRVGANIG

>gene_729|GeneMark.hmm|176_aa|+|4955|5482 >NVVL01000038.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21498, whole genome shotgun sequence
MSEQQEKMTTGNKAASLEVQDSRKPGAQEESEGPEPEVKKITPGQGPPASGRQQEKKETST
KPQEEGKKLAEVKAVEATRGTGKPRGKRTVQASDAHRKNPAGIILFAESRQDMSLTDWY
ERVKNLYRLAYPSRGAYVDGSALLIRRFVGLRNARLSHELMQTPETSLMGTMMSRA

>gene_730|GeneMark.hmm|27_aa|-|421|504 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
MLKTALSDFQTKAAAVKAYNALVITT

>gene_731|GeneMark.hmm|46_aa|-|679|819 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
VYDQRAREHPVAIAAVIDAQTKVAGLYIGFEAVNDQAMFLQTESRS

>gene_732|GeneMark.hmm|38_aa|-|1640|1756 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
MGLNVIVFISNNLSKFKDVVTADISVVKLVFSSG

>gene_733|GeneMark.hmm|94_aa|+|2300|2584 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
LIDNSTQAAVDFAKYIRNLNAELEDLEIELDRKREYETKLNGDVAEGAAALKNAQDELAE
AEKTLAAEIKRCDDLEAFNLKRIKEIEEELVIIG

>gene_734|GeneMark.hmm|63_aa|-|3263|3454 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
MSLVTLSTNADPASIDKILNLMEKIQSALTQSKTEDNTDENTAIADWNDEEISLNRISGT
LTT

>gene_735|GeneMark.hmm|49_aa|+|3477|3626 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
LTDDFESKTLFTLDFSSATLLVSMKAFPPTLLILVNELIASLIAAMAAM

>gene_736|GeneMark.hmm|197_aa|+|4251|4844 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
MNKLFVAVCLAMLASVTMGTRLRAKSTYEIPEISAIEKSKWGAQLLDTVALQIQSKAPLD
KINALLQEIVDDLRQQTDDDQYAIMLWCKDEKKRLNADITNAKAAIDVAENKIAKRT
KAIKEGVALESKLVKQIDTLESHIQHTHDERKKDSEDFAKRDTETNIAIDAIADAITEVQ
QLVGRVPAPIESAIQKL

>gene_737|GeneMark.hmm|64_aa|+|4941|5135 >NVVL01000039.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21554, whole genome shotgun sequence
LKSSLEFSLSQDQADEKASVDAFDILLNLRNLTANTNLVACKKQLKDDRKNLAIQEG
VKLE

>gene_738|GeneMark.hmm|219_aa|+|1|660 >NVVL01000040.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21885, whole genome shotgun sequence
FPEIKAQKAERYKQEAQAEMRKDLPQVIKHRKSKIAAIDAELSEGKIPPEKVAEIMEIR
AGYVDQVSFDQKILDQEVGSVAEESVYLDNVINGAKRGNLSKDKAIVILSKQYPAMLECK
AVDQNHKGVEQCQQLAGLYGIELNQLGSSKQANQPVRPEKRLTQKKKLPVAALLDDQGE
LKLEKIAAKVQVRLAKRTKLQHRLTPNVKGEGRGEGQVR

>gene_739|GeneMark.hmm|239_aa|+|696|1415 >NVVL01000040.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21885, whole genome shotgun sequence
VAKSEYDLLEEAERYAVVELVASGNVYKLNHARVHEIHWNSIKFATRSDCSGGFLGVY
KTLRADGRNDDLGTTLGFLLVGLIVFCNEKVIQAVSDSYKYGYGVPVNDYLAKLTIAIGQ
YLSDDFDDEANQIIIEEMRMNQGGSLDQLSLKCVAWMQKHREFLDKSAYDVTGGEV GALL
KMFEAETHSGYLANHGALSRAWHLEAIEPLHLNMNPDDDEQVAVAGAGNQNSDCCCIV

>gene_740|GeneMark.hmm|1006_aa|+|1687|4707 >NVVL01000040.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21885, whole genome shotgun sequence
VQNKPCNPRAMGVLVFGILLTVKCRYMLFGVEIGLDMGIVIGFLVLTAVGMGHGKSVK
TIKDYGGRNFSTGALVATIVATWASGSGFFVTMSKTYSDGLYMFASFGLGVSFFITA
FLLVPRMGEFLGKVSIAEAMGDLYGQNVRIITAIAGTIGAAGSIAGQFKVFGNIFSYFLH
IPNYIAVITAGFIATLYSAFGGIRAVAFTDILQAVAFGIIIPMVGFIIWGEFYNEGFSFS
QAASDPKFNLDILFDSGNPEFLGMLALFFHFCKPTLSAPAFQRIAIGRNVAQVKKAFLIA
GACLIFIKIIVWPFLIYSMNPSLESSQLVSYIVDTYSYPGLRGLMIVAIIFAMSTAD
SRINSASVLFTHDICKVLLPTIKRELLISRLFAFLLGGGAIMFSLVETDLLSIILANSF
YYPVLPPLFTVFGFRSSSKSVLIGMMAGLVTNIIWKMSPIESVSLAQKIAGPQFALLM
NAVFLGSHYLLKQGGWVGKDNSYLDKQKIIRERWAAFMSKVRSENPINIKTHPMS
CDSTYVILGAYFLVFTFTSIYSTHAEMLENKIIITTIYKTMIISSSTMGMYPWIWPLSIK
TEIKQMVMRVWYPLSIFYMLIVSTFFVLLNEVNNLHFVMFAVNMIVSVILLGWQMALGM
IVAGVYIGTQFYKYIGVEYLDTSIGSPQFILLYSMLIVVMILIFLKPQEHKKTEHK
VGELSDEVGTLVTVSSRDSQIITLDNKVSGLEERIDHYTERTTNQAQEIERLGATAQRI
LNNVNHELRLPVGVMNFAEILHDGLGxLxDEQLKMLSKEYKNSNRLSTMIXNMLDLAT
xQAKKIELQIKLANFSELVEERLTACRKIYVEEKPLKFIKIEKNVMVPMDENYIRQTID
NLVINAINFSEKGIKLVIVARQTNFVFTIKDQGIGIPLRELYDVFTPFKMGSNTEKAE
GRGVGLALCKAAVNAHGGEVKVESSGAGVLFVRVPLASDRGRPRS

>gene_741|GeneMark.hmm|67_aa|+|4711|4914 >NVVL01000040.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21885, whole genome shotgun sequence
MRARGSRCKKRQVAALSNLAPMRINSEYHRPFEGEASAEFLKPVIGASPHMPVLF
GAIQL

>gene_742|GeneMark.hmm|70_aa|+|5132|5344 >NVVL01000040.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_21885, whole genome shotgun sequence

VDRAGYEAPILPPNSPDMIHSTGFEEAVNAMTWLIEHYKADEGNESFAIYDIYGCTPLIE
GSFNSRLYRD

>gene_743|GeneMark.hmm|481_aa|-|2|1444 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
MQNKPCNPRMRGLLLVFRILLTVKCKYMLFDIDVIIVAVFLIATLVIGLGHGGDVKTIKD
YALGGRKFSTGALVATVVASWVSGSGFAITISRTYYDGLYYLVATFGMIISFLIIAFYLV
PRMGEFLGKTSIAEAMGDLYGTVKRVIIIVASGIMASVGYIAVQFRVFGDIVSYFVDLNT
LTIITAGLVVTIYSAYGGIKSVTFTDILQFFTFCAVPLVGIMIWSKLGSIDSFSLSNAL
QVDKFNKKVNLGNPQFWEMIPFLYFVLPKMAPSICQRIFMGNNLEQVKKVFIISAFI
IIFVKITIAWIPFLIFNVNPDEHTQLISYIMDNYTYTGLKGLIIVCVIAMAMSSADTDI
NISSVLFSNDICLSFVTSSEKLLLSKIFACVLGLVAIFFALSTTDLLDIILTSSFYMP
IVSSPLILTIFGFRSTEKSVLIGMGAGFTVVAWKAMGIQANPIAIAMLVNLIIFLMGSHY
L

>gene_744|GeneMark.hmm|246_aa|-|1712|2452 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
LKRGVVAKSEYDLLVEEAAERLEAVELVSKNVVYKLNHYGRVDGRHWNQIKFATRSDCSG
AALGAYKTLREDGCNDDEGTMLSWLLVGMIIIFGNEKVIQAVSDSYKHGYGVPVNDYLAKL
TIAIGRYLSDDFDDKANQIIAEESRMNGGVSSLDQLSSRCITWILDNLKFLKKSAYELTH
GEIGALLKMFEAETHSGYLANHDALSTEWHLTYIEPVHLNMNPDDDEQVAVAGAGNQDSG
CCCVIV

>gene_745|GeneMark.hmm|394_aa|-|2473|3657 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
MANNSEKTLKNIHQQLDTRLNDVQTDAMIAMIKSFQKDLANMNVDLASKSSVSSLNTP
NLPPEVAGALELLLASIAKHSAAEAEKMIIEERIIQEELKHARNSGVSAEEVRKEYERNE
KLAASIDixVxEYSEYKALFxYRExDLAISERIRDGVELTPxDRAWVFDENxEQFPEIK
AQKAEYRKQEAQAEMRKDLPLVIKHRKSKIAAIDAELSEGKLPENVAALLEIRAGYAD
QVSFNQRILDQEVGSVAKKSVCLDHVISGAKRGNLSKDKAIAVLSAQYPAMLESKSLDQN
HKGVEQCQQLAKLCGIELDQIGSSKQANQPIPRPEKRLTQKKKLPVAALLDDQDELKLR
IAAKVQALAAKRTKLQHHSTPNVKGHGQDEGQVR

>gene_746|GeneMark.hmm|87_aa|-|3797|4060 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
LEKLGARGRMLFSQKHILPEIIRSKKLARSINITSSITKELIQAYTREAGVRDLAKLP
KSLIQKPLLEKARTNKPTLNKALLS

>gene_747|GeneMark.hmm|92_aa|+|4149|4427 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
MANADVRLSRNSTTTYFTTSLTIKLSMFAHIARGNFSIPTPPPIQKGGGLCSGGNAAGAC
CEKRLKRAQEIMVDIHILIFTLQTYAIYITLV

>gene_748|GeneMark.hmm|91_aa|+|4466|4741 >NVVL0100041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
MEVRLRVGSKLKNADSIFQEMGMTMSEAIRIFLTQAVNSGGLPFRPHLTNPSTTIQAF

EDVDSGDFEEMSIEKFSNYLDGIEGEKSKNS

>gene_749|GeneMark.hmm|57_aa|+|5017|5190 >NVVL01000041.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22223, whole genome shotgun sequence
MSNAQKKYTSEFKSQAISLVRDANLPASKVAKDLNINVNTLYNWLRVGSYRAFALRL

>gene_750|GeneMark.hmm|31_aa|-|2|94 >NVVL01000042.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22761, whole genome shotgun sequence
MAKKSEITNESNIVNIAGKSNLAGRNAAIMF

>gene_751|GeneMark.hmm|282_aa|-|879|1727 >NVVL01000042.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22761, whole genome shotgun sequence
MKDRVMINKLILLLLVLVASFAGARPPIAVSITPVASILKMLTGDAAEITINKSAGCP
HHYQMKPSDKSRFSDAEMLI FIDEKFDGFGKLSAQFQGEIVQISEIDDIDFSDDQGKIN
WHFWLDLDNVIILSEYLAKIIIEKFPKLGIVDINGKDALVELRTLAQVKKITLSSLSL
VVLSDSLEHFFKNSDAKILKLYQRTHSSLRDVKLSHALGKNKNQCIVIDAGQNPLTYVK
FDKKIQLDSENWVVEKNDPVKESLFCVRYLRMLNQLQECSH

>gene_752|GeneMark.hmm|402_aa|-|1724|2932 >NVVL01000042.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22761, whole genome shotgun sequence
MKILDQHLAINSKNFRTIIDHLVSFGGKARIVGGAVRDGLLDVPSSDIDIATDLPAEQVT
EALKAHNIRVIPTGIKFGTVTALIRGETFEITLRRDISCDGRRRAKVKYTKDFAEDAARR
DFTINALSYCPSEEKIYDYFDGIKDLKAGRVVFIGEPEQRIGEDYLRLRFFRFSCRYAK
EIDQEGLSACVRHKDMISILSGERIKSEIDSLLQLDGAPEIVHAMYESGILQQAFPVKTY
NHQMHVKALEVAKSGVSLDVLVIYAILFMDCAFSLNQIVKLFKSKAEAKLVVSMIDLQN
DSTMMEDSLRKIWLEDRGFIQHSIFASVIKHENESDLESINKLYERLQLLERPLFPLRGR
DITPLGYSGKELGNAINLLKTKWIQSEFTASRDELINLVREK

>gene_753|GeneMark.hmm|391_aa|-|3084|4259 >NVVL01000042.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22761, whole genome shotgun sequence
MTEVIEEIKETEEAVIWEFVVGQALVAEENTATKTPTPPADRPKSTSKNNKKRSPHDK
LFKAIFGNEASARGILKKHLPEDIKLLDLHLEIERDTFVSEDLKESMSDIVYKIKTKN
QKKDGDVILFLCEHQSSNDKMMFRLWKYSAISAWEPYLAKNEPLPIIAPLVLYNGKRKYS
SYRRFWDLFVNSELAEKIMAGKCQLIDLQSMSDEEILADKEFGLFKFFMKNIKRDNGIXL
WxECFKKFxEHIKLDKEQELFYTKLLWSYTxXKxPIERKDELVSFMLKQINKIGNNGEKV
MKTIAADGYRDEGWKDGLAEGREEGREGISIGEERGEKKGKIGVEVERKKTVMARMLKEN
FAPKIISSITGMSQRAISKLRSQLKLGELA

>gene_754|GeneMark.hmm|202_aa|-|4535|5143 >NVVL01000042.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22761, whole genome shotgun sequence
LKQYTKKHGDSLPGNLVDFFWNARLHEHVGSAKAELIKSYNSHIIMNKTCLYAFNSIVS
LLKRSFCEREPHNNLFPHELLQFMDKMKYEFSEFADYIKLELILSEAGYELQLNRCVAVTGE
SKDLYYVSPKSGKAVSKQVGPYAEKLLKLPNFKQDARGEAEELTSIEKKTAAELTSYFF
NRYVMHKGPEPHARTCFEMML

>gene_755|GeneMark.hmm|123_aa|+|2|373 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
LGLLLASVGITLVGGSIMNSSHKASKKTEIHLRVIREVERANANGHVVKGYEDFLAKVE
RRVLREEVIGFKPYVSQPNDSWGRMIMFEYDKNKNQLIILSYGKDGVEGGDGEDADLSEV
VQF

>gene_756|GeneMark.hmm|325_aa|-|803|1780 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
MRHLQIKIYRRNTGHHILSFIHPKTKKRKRKFKPTKKEAKDYREEIEREFQTRGVHAFND
QTVAQLMQLHIEKCPATRVKERMNSFNSFLDNFGAYPVNEVGKNELSLWFEGLRKHDYS
TRTLKHIKSELGHFFNFLVDEDISSSPLLLVGFGTSPPPKRKRVLVSVDEVHGLLELVK
IWDSACLYPFMVALAHTGARRSEIARLKREVDVDFSMGLIHLHETKNGEDRSVRMSDELTT
MFSIHLVSHTSAFAIPDPTGAKLGDSLIYKCMKKFKLHPNGKEWTFHSFRHSFAFNLYK
SGGQMYQLQAILGHKTINMTIDLYG

>gene_757|GeneMark.hmm|128_aa|-|2302|2688 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
VSRTKHEKTSHTLPTCEDRSSEQHKQAAPDPPAPELQKNLSNLLKLLCQHGLTERELA
ERIGASQGHINKLKNHARLSNIDYLVRIAEVFGVSLEQLLTSPGHAPPITHEGKQKLLK
ITVYVVEE

>gene_758|GeneMark.hmm|103_aa|-|3197|3508 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
MRLNKALERKNWGHQQLCDVVSKASNQKLRRTLEHWLNHKKCSKKFHFFLPFIADALG
TTVDQLLYGHELTVKNNLLEIQRDLTLKIINADSLPKSLKR

>gene_759|GeneMark.hmm|102_aa|+|3863|4171 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
MWTvxYSRQAAKAIAKxxGxNKLSDARGALDHLDEEDGPTQNTWPHYSKLNQKKG
LDKRHCHLVIRGNPTYVACWEVINTKKKVMVYAGTHEKAPY

>gene_760|GeneMark.hmm|128_aa|+|4152|4538 >NVVL0100043.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_22818, whole genome shotgun sequence
MKKHLTKNDITILVRGEAIELKDSVSSLANIIGELVGDSDSASEVHGDWLN SPRMRVA
KYLKGVNRKEGLTQGDVCKKLGIQSNLSKMEGERSIPPTLVGKFSKLYKVSVKRLQET
EQKKKKAS

>gene_761|GeneMark.hmm|118_aa|+|450|806 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
LIFVFEKTDDRMSQFVSNILPALFGAFTATDANDKIREKVLMMNVYLCLRTFAWADGVNDE
LVHTCFDDTFNTWMALFIQIQSNPKSLFDLKRVSCLKLTVIFRDFVNYSKDSINLIL

>gene_762|GeneMark.hmm|29_aa|+|920|1009 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
MKNQTSKSQLQKKEALNQMTKKTNMEQKA

>gene_763|GeneMark.hmm|29_aa|+|1147|1236 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
MEEPNTYVADQDDEMSLRISIRNASLDLIS

>gene_764|GeneMark.hmm|53_aa|+|1960|2121 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
LIDLFRLWSGFTKCLDIMIAMFTPFIVEIHKNYHFSTKGGVVVDKAVVDSSIL

>gene_765|GeneMark.hmm|105_aa|+|2482|2799 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
MSVITKILKSRMPSIVQSLALVFARLIHTNPTEIFSLSSTSIENRISLKIVLDKWLLHQ
PLFRGSYAKAVTLSALLNMFLSRDHRIENLMVIGYNPSHTNINSG

>gene_766|GeneMark.hmm|66_aa|+|2824|3024 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
VSAPFKILSVLLRFLDLNDAPKPSGDMREFRMKRDFEDERLDTMGEDDNEEDYGDEDAGG
QDEMQM

>gene_767|GeneMark.hmm|52_aa|+|3255|3413 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
LNSYADINIKEHLGEKLFIFYQGNKDYVRYCVKQLPKEDQDIAKRLIFAKE

>gene_768|GeneMark.hmm|397_aa|-|3455|4648 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
MVPVGPECLGRILNVIGEPIDEKGPVNAKMKLPIHREAPPFDEQSGDEILITGIKVVDL
LAPYQRGGKIGLFGGAGVGTVLIMELINNVAKKHGGYSVFAGVGERETREGNDLYEMID
SGVIDPVGNKSKAALVYGQMNPPGARARVGLTGLAIAEYFRDEEGQDVLLFVDNIFRFT
QACSEVSALLGRIPSAVGYQPTLATDLGALQERITTTKKSITSVQAVYVPADDLTDPAP
ATTFAHLDAQTVLSRALTELGIYPAVDPLDSNSRMLDPSKVGQEHYDIARGVQKLLQDYK
SLQDIIAILGIDELSEDDKLTVARARKVQRFLSQPFMSEIFSGKPGVFVELTDTKEGFI
SLLEGGDDYPEAAFYMVGDLDKQAQDQGRKMAEAAEK

>gene_769|GeneMark.hmm|57_aa|-|4676|4849 >NVVL0100044.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23026, whole genome shotgun sequence
VIGAVVDVQFDGNLPPILNALEVEDCDYRLVLEVAQHLGGNTVRTIALDSTEGLVRG

>gene_770|GeneMark.hmm|85_aa|+|2|259 >NVVL0100045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
GFIASGIVGLFRFPDFYTKIHAAGVIEVCGLPFCFIGLALMQSDYTSTFKLVAIAALIFL
LNPVSTYALARAAMPVKLDEKGRVK

>gene_771|GeneMark.hmm|193_aa|+|261|842 >NVVL0100045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MAEFFELPFKLDMMSEILLVISSIVVLATCIKLISRNMLESIHMSVFSLFISICYLL
MDAPDVAMTETALGACLSSCVLINVTNIVGENAGNPPQKMRIILSALLCAAFIACLTAA
IDLPEFGIADSPLQTHLTAHYMENTKKDIAIPSVVAAVLASYRGFDTLGETVVILIAGLA

VLVITTRRRKNA

>gene_772|GeneMark.hmm|160_aa|+|835|1317 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLKEFKNLRVIIAFIIPYILLYSVYIQLNGEISPGGGFQAGVIFGSGIIAFDMVFGKKAL
AMHFSTTGLTLCAILGVFIYAGTGVVSLIFNDNYLNYNAINVINGVTVGNGIGDTVGN
TLAQGNIVGQHIGIFSIELGVGLTVAAVMSLIYSLLREDA

>gene_773|GeneMark.hmm|119_aa|+|1336|1695 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MHNLIYFFAVIILTSGLFIMLTSDNYIRKIIGLAIFQSSVLIFYIALGKSAQGIVPIDIC
EKTSSCLHVFSSPLPHVLMMLTAIVVGFATMAVGLALIMQIHTEYGTILESKVTQHEEDI

>gene_774|GeneMark.hmm|488_aa|+|1699|3165 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MIIATHIPALQIPLFAALFAALTYNRFAAWMIATISAALGFALSIYAMPFAHEGMSYA
FGGWNAPIGIEYRLDLSLSQPIIVFINAILLLFLAFGRELIDSSITEYIEKKHQHLFYAIL
LFAHFGYLGVISTNDLFINIYVFIEISSLATYVLMASKGRTPRALVGAFDYILIGTIGATLI
LISIGFFLAMTGLNITDVANILSKKAASPLITIAILFFLTGAILKMAFFPMHFWMRRAY
SSAAPFMLTYLATISSIFGVYLILRFVHFTVEQQNIQEMLSQILRPIAIGTIIICTLLAL
KARNFKDIVVYSTAAQIGYIFMLITIEPAKHLLFQFLILDALSKVALFTIIAHIQNKSDS
LNLESFASIEGAGFFKFLVALALMFSAGLPMMASTFIVKIQIFDLLARNHMMILEFVTVILG
SVFALHYHFKLAKAVFFGSKSKHTIQIKTKSYGLAFIVLIQILTIIYIHDLASFALNTES
FIQKIATI

>gene_775|GeneMark.hmm|512_aa|+|3162|4700 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MTQFITPEFLVIGALLVGMMNLFTPFISKEDSPVRSFLISVSVIFLINILLDDYLFSLG
IEVNFTLFEFGKYTIALHLEPLGMIFLTLSSVLWICALLYTIKFLAINEIENSDFLFFV
NCCVLTGSIVALSANLFTMFAGYEILTCTIPLIAHKRSQAVSDGLFKYKILMTTGLLL
FLPAIIVYSSIGHGNFTYGGFIAGHFSDANAIILLLFIFGSKAAIYPFHSLPAAMV
ASYPVSALLHAVVVVKTGLFCYKILAYVFGLAYLQTLFADYNWLVLLPIFTIIYSSLQA
IRYTELKMILAYSTINQLSIALLSAFLTPKGLMAAVIHMVSHSFTKICMFYAAGNMYSV
KNSYNIQELVGIKNTMPKTSFVMLIAGLSLIGMPPFAGFISKFYIMMAAAEQENLLVMLI
LLVSTAFSALYVIKIIIFIYRPTNDEFILHLKLPYFNEPISHRSSKRIISSKHKAEKHL
PTFMILSIALCLSGVVGFFLIQQAIKFLMFL

>gene_776|GeneMark.hmm|546_aa|+|4740|6380 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MIYHPTIIILTSILVLILSYRKEKLFASASLIMPIIAAITLYTMPTQSGFEFFNLNLVCE
GTPYKNLIGFAFLVLFSANLYALGQKKKLELMLGSAYAASTLCALFAGDFISMVFGIEL
MMIFSAAIIFIGRRKSLRSACKYFLTHLMSSNMIVIGIVHIITKEESIALIPVVDLLTS
PKHSHAMIIIMLTGMLINIAAFPFGSWMVNYYPKASPAGFLYLISFTTKLSIMLLIKLFT
GYESLKYIAAIMIYASIKAVFEDRLQSLCYLSIMAMGLMMLLGISHGSPLAILATVSYL
FIHIIYKALLSISISSIIDHTGIKKCHDLQRINCKLTFFAITGIAIMINIPILSSFYVK
STISHLYEGTIFYNLTIFLTAMTIITIPWKKYLHAKESMDINLNKHASLSILFMLIVALI
VGISASTMPIIGQLDNFRELLLSQDTLNQGIHIIAALFVTLIYALPRKKTYPINLTEYL

GDVFFYCYWRLLNRSKEDSSKEPWMIHSLERQITSKINAIHNQQTAIFIVFAGFVILLG
ASLALS

>gene_777|GeneMark.hmm|69_aa|+|6450|6659 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLAKAKVSKVRKTLHLHNGDKVSIKYSDELVSTFHSNVEKARNILKNYKEIDFQQELK
IMRKKEAGY

>gene_778|GeneMark.hmm|262_aa|-|6751|7539 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MIIVDSHCHLDMLSEHDDIDAIVARAGEAGVKYLQCTICRLDNFENILKIAKKYDNVFNAS
VGIHPSEVEGAADAKELVNLARDEKVIKGLGETGLDYFYNKEPGHHALQQASFEQHIIASQ
ENKLPVIIHTRDAEQDTIDIVTAGKKHQEFPLIHCFTASKEFAKAMLDLGVYISISGIV
TFKNAEAIREAIEYIPLDRILVETDSPYLAPVPRGKTNEPSYTRYVAEFIADLKGVSLE
EVSLQTTQNFFDLFTKAKAQAS

>gene_779|GeneMark.hmm|510_aa|-|7536|9068 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MSSKNFYITTPIFYVNDVPHIGHAYTSLACDVVARFMRLEGLHVKFLTGTDEHGQKVEAS
ALKAGVAPQEFQDKNSARFRDMMGVLGVSNDDEFIRTEEKHKKSVLAFWKKLEENGAIYL
GKYEGWYSVRDEAYYAESELTEDGLAPTGATVEWVEEPSYFFALSKWQDKLLAYEENPE
FIWPNSRRNEVISFVSGGLHDLVSRSFKWGIPVPGDPAHVIVVWVDALVNYISALGYP
SADGDFADYWPAAAHVVGKDILRFHAVYWPFLMAAGLELPKSIISHGWWTNDGQKISKS
LGNVIDPFGLVDEFGLDQVRYFLMREVNFGNDGNFSKENLVLRNSNELSNKIGNLLQRTS
AFVYKNCDAKIPDVDEAYVTEVYETDLFKEILSIVSANAGYMEKFDINKVLSNIIHITEA
ANIYIDKEAPWALRKTDPKMKKVLVLLLEVLRYIAIMMQPFTPDSAKKMLDQLNIPEDA
RMNANLTMEFALSAGASIKEPTPIFPRLER

>gene_780|GeneMark.hmm|39_aa|+|9123|9242 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MVLVQVVVLEIWTGQPCLAAKTLDTLEAMLAGLKYRVL

>gene_781|GeneMark.hmm|256_aa|-|9263|10033 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MEKINWYGAYSLTLREVKRRCRVYNQITLTPVVSSLIFLSVFLAIGQNRPDISGIKFIN
FMGYGLIAMSIIQNAFANSSSSFVMSKVLGYISDILLPPLGSVEILIAFTMGAVLRGVAV
GIAVTLALAPFIEYSLHHPVLLVFYVLASCTLLGMLGILTGMISNSFDQFSAVTSYIITP
LSFLSGTFYSVKALPFIFQIINLLNPFYIIDGFRYCITNHADGNITAGISFLIASNIIM
YVVLIRLIDKGWRIKA

>gene_782|GeneMark.hmm|446_aa|+|10148|11488 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLKKLFIKTYGCQMNVDYSIKMQEILAPFGFESTEDMNEADMVILNTCHIREKAAEKVYS
ELGRVKKIKDARKTQGLSDMIIVVAGCVGQAEGDEIFRRAHYVDIVVGPQSYHTLPDLLA
KLARSEKRLIDLDFVEAKFDNLQPQNYQGGASAFVSIQEGCDKFCYCVVYPYTRGAEFS
RNVEEYRESMVASKEGAKVHLLGQNVNAYHGKTHEGKRHSIADLRHIATLSDIERIR
YTTSHPSDMTDDLIALHGLEPKLMPFLHLPVQSGSNKVLKGMNRKHSIEEYLSIIDKLRV

ARPDIVMSSDFIVGFPGESDEDFADTLDLVKKVQYGCYSFKYSPRPGTTPAATMEQIPEE
IKTERLAILQKELSRQQFEFNESCIGRILPVLFEKNGKFDNHIVGKTPYMQSAYIENADK
SLIGRVVDVKITKGLAISVTGELVKN

>gene_783|GeneMark.hmm|788_aa|+|11603|13969 >NVVL0100045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLLRLLIFCSKLALFFGAIGVVVAGYVIYYYSRDLDPDYSQLKLYHPPSITRMYSSDGKLI
EEYAREHRVFPITSIPKPLIEAFIAAEDKNFYHHSGVDFVSILRAAITNVSHILNKRRV
EGGSTITQQVVKTFLLSSERSLERKIKEAILSMMSQLFTKDEVMELYLNQIYLGKGAYG
VALGALNYFNKSIEELTLNEAAVLASLPKAPSKFNPAVNYKRAFVRKNYVLGRMFDDGYI
TEEQAREAIAQPITLAKFNKVTIDADYYAARVREEVINMFGKEYFYTAGLTIMTCVDSN
IQKHAARALRAGIKRYDTRKGYRGAIKNIDLINWQDDLAMPPIPIGLRHYKLAVVLGVTD
VAAKVGLRDGSLKTLRIRDMKWAKTGLASVRELLKSGDIIAVERKGGKYLQQIPEVNGG
IMVVDHRTGRVLAEEGGYDFGFSKFDRTTQANRQPGSLIKPFVYLAIEGAHPNDIFDD
APIELEQGPGLPLWMPKNHDDKFLGKMTLRKGLEKSRNLVTVRVGQFAGINKVAETIKRF
GINDDPLVVQSIVLGSIEETLSKMTMAFGALANNRKRKIEPHYIEFIKDRKGNVIYKRKYA
ECSECKSYKLEDDNAIVPKIEITKGAALTDEASSYQMTSLMMGGVQRGTSRKAKNLKHV
IAGKTGTTNDARDVWFMGYTPKIIVGTYVGYDQPRTLKRAYGANIALPIFVDFMKGKGYK
NAPLVDFIVPDSVALLSVDYETGKPKSTGENSIIESFKADDYNPFLEKIKRKYKPLIKIQE
RDSSEELY

>gene_784|GeneMark.hmm|306_aa|-|14166|15086 >NVVL0100045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MAGLLSRLKTALGKTSSKIGSSLDHLFIKKLDDAALEEELEDMLIFADVGVQVSAEIIISL
LRARKFDKEVEQDEIKQDLSVIIQILERQDHFELKQGLNVILVCGVNGNGKTTTIGKM
AASYASAGKKVAIAACDTFRAAAVGQIETWAERSGARLFSGADKADPASVAHRAISESIS
SGVDILFIDTAGRLHNHKNLMDELAKIIRVIKKVDDSAPHHLLVIDGTTGQNASVQVKE
FKALADISGLVITKLDGTAKAGALVGIVQKFELPVHFIGEAAADDLKKFVAKDFARALV
GLSEEK

>gene_785|GeneMark.hmm|922_aa|-|15090|17858 >NVVL0100045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MNNARKILLFLSCLLWVQSVCAVLP IQMEVKVFGKDVIFVYRDKDQVTFHIKDRSVSS
KFSIPSEFSLNLSEFNKYASNLRVFPKQKISFRANKNLQYQSIINGEKLDAIKFRLKD
KVKTQEDDLKIGSANNDPGTISYAKNKQNHVLLFNLGNKKS KIASFFRGKYLWVFFDQK
KIFSFKKNKFFSKFMIPSEHGSAMRIKIDPKFAHARLVRSKLGWNISLSESAHKKTGAG
AGSGSIITPKSLQGEDGIIKGFENDELISCEDPELGDMIVALPLKQPGRKVAVQKDAV
EFSLLKSLQGIADVLYSDDVLVEKYEDGLRISSDATALPDDMMIEADAQPLRADEYINLPT
ILPYLDKGLDILDFNKQKSRLIMEASLAKNKIEAFQHNLALARFLVQELYHESLDAVRV
AQKYSEDEYKSNLQARFLKAVNYTMVGEYLA AKELYEELLSYDVRKIAEISIWNNYNNF
SLAISFDKIGLLENLPKTIHLYSDDKYWGLVFAEVEIALLENDLKTVERVFKEIRKTRG
KYANSLKFYKANYRKKGQINLAIQYYTDLTFQEKDIFNKVRAEFDLAKLVREEKITHA
DAIKILNRLRYEWRGDRLEYDILTQLAAYYREAQDIMNSLRTHYIQTAFNNKVSNFYIT
SEMARIFNEVFLPGGLSKEMDDFTVVALFYEFKELNPIGEQGDVILSIKRLVHLDLLE
NAAELLRHQVSFRLKGEKRVKNADNLA IILMMDKKPEAMLVLDNTDKDNFSFKEHEYRV
RLRAKGFHMEKYEALDCLNDDVSEDAEIRREALFQGNWSRYAERISSDFDGLISR
V
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ESLDIDQMKMLLDKYKNQFLGK

>gene_786|GeneMark.hmm|56_aa|+|17939|18109 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
LIYRAAFASNYKIMVIKHLLEAAPVGKYTGFLKALCATWGTPTSGCAQSFQACFDK

>gene_787|GeneMark.hmm|528_aa|-|18305|19891 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLDKIRKGSDDLVRVLLAIIAFSVGGGAAVFMGGNSQGDVISFSDTKSISMEDFQAAR
TREIDALQRQNGINLTDENIEELGINSSILRKLINDSMIKYLARYYDFDISDEKIIDFVK
MTPFFKDKNGEFDRAAFKAAFNPRKEEYLASHKHLVTSTLVEVFMSSFNPPKIMTEN
MVDYMAETRIVDLLSINLGSKPAGYKAPNLSDEQLEDYKKNQDQFVVPPELRSFDYIKVD
RKFLSKKLKISAKELRKYFNENKEEFSSKHAKVKEVKELVSKAKLDELSELVKNLEE
DASGGFTLKEIAKKYALKVKNVRGKSFDELSGKVKDHAELVDNIFEMSEGEVSSPIERS
DNNEILMVALNSIAAQRQQEFVEVRKEIKKFLKRELAANVKKLEAIQKTYSPKKINRK
KLKSNSITLVNKSSTRADLPLEKKLPANLLKGIFGAQKNTVTALVGDGKKVYFAYVKKV
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>gene_788|GeneMark.hmm|237_aa|+|19970|20683 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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SVVSGFGAYTGECSADMIKSAGVNYSVIGHSEKRELVESNRRIIRKKAENCTRAGIVPII
CIGESLESRQSGHFQEFLLQLNESIPGNAQEIIIAYEPLWAIGSGIPTIEEISAIHFH
IKSSKDVSMVAKKARLVYGGSVNSGNREILNIPDASGVMLGASLKETELDLILNL

>gene_789|GeneMark.hmm|106_aa|+|20704|21024 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MINTLLFVHMIISALLIVVILLQKTSKDGLSGIGGGNNMGVVSGRSAATFLTRTTIILA
VAFFANALVLANLSAKRQESISAKIQKTERNATKADSKSSLPMAK

>gene_790|GeneMark.hmm|273_aa|+|21046|21867 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MNIVKVEDISIANLPLFALVAGPCQIETLDHALFMAESIKKITDKLGIPFIYKSSFDKAN
RTSAAAHARGAGIDDGLEILAKVKSQIGCAILTDVHTETQCAPVAEVVDVLQIPAFLCRQT
DLLKAAAETGKVVVKKKGQFLAPWDMKNVYEKLVSFNAKGIILDRGTSFGYNTLVSDMR
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DNAPSDGPCMLRLDSLEGTLSRLQRFDELKSM

>gene_791|GeneMark.hmm|947_aa|+|22189|25032 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MFLGFGIDAIIVVGFLIATLVVGLGHGRSITTIKGYALGGRNFSTGALVATLVATWIGGS
GFTINLSKTYSSGFLYIVPSFGMTLSFLIMAYLFVPRMGEFLGVTSIAEAMGDLYGKHIR
IITAVTGVMSEAGFVAVQFKVFGNLSYFLDLSPMTGIVAAAIIITTSYAFGGIRAVTFT
DILQLFTFGFAIPIIGVMVWNHAYYDGVSLANSIQDNRFSEFILSKQNPDLGSMIALMC
YFALPGLKPAIFQRISMGSVQVQKAFIISAVIVMFITFASQWIPFLLFNIDSTLEPSE
LLSYMIENYTYIGFKGLVIAGIIAMTMSTADSNINSSAVLFANDICKPLNVGQNRCELLS
KLFSIALGIGGIVLAVSTKDLLDVVLTANSFYMPVVTVPVMLTILGFRSSTKSVLIGMGA

GFGTVVIWRLLSIQADCFMSMLVNLIFLIGSHYVLKQKGGWVGIGQAALDALREEKME
EQQKRAQKLADDKGFVDACQKHCPKDEMSFVGLGIYLIYTMTTIYSTTEALKHSNQMIL
IYQIMMVSGVVLAMYPIWPRGVARKTRETIAQVLWPMIIAYMLVMFNLFVVMVSNFSPL
QFAVFTLNLVIVVVLLGWRIGGIAIVFGSLFAMPLYKEYGAETNFDVAIGSPAFVLIYIL
LLVGATIVLFLPKQEKLEQTEEKVGVLSGEVTSLDNKVVGLNEKVVHYSERTSDQAKEI
ERLGATAQKILNNVNHLELRLPVGNVMMNFAEMMRDGLGKFSQKQKLMISEEVYENSRLST
MILNMLDLATLNAKKIELKVKTNFSELVQERVESCRKIYVGDKPLEFKLNIEPNVMAVI
DANYIRQTIDNLVINAISFSDKGVIIIDVVKQDGFASFITQDQGLGIPKNEIYDIFTPFK
MGSNTESKAEGRGVGLALCKAAVSAHGGEVTAESNGKGAMFEVMLPL

>gene_792|GeneMark.hmm|129_aa|-|25021|25410 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MGFLHLHTLPIKPTLLENTDTSGVHTLLKNAHMLGNLSYLTVRGILKKNLNPSPNWS
YSSGIISPPILSFSNEKTSKMATSLEIREMAIYQKNSRRQPSQQTVKEQYRSPILKPHPP
LPRAGKLR

>gene_793|GeneMark.hmm|581_aa|-|25604|27349 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MSKIFKLFSTIVGYRLSLKELYFSLTTWLAGLVAFLGMATKFDSSLLANIVIAFCVLGM
IVLITNRVLLSCLTLLAVLFDYVKLIKWQFFMQELLAADVFMKLLINHGLLRVIYEV
STKEYLIFLLLINFMLMWNRSDDLKKEKELGNKHYYIFRLISFALAALISLKMFDLAI
DKKSYVHSAIESMKSTQKDYQRRTYGPFAVDLFTLQDVYITPNHGEVDEALILDEVKKN
FARSDKLEMPDIVVILNESVFDPTKLDYDFAEKFDFFKDKTKNTKYSGILNVNTFFGS
SWISEYEINTGVPHKSFSGPSYMPFITLVPATNNSIMSHLRSIGYRVEVVYPVDKNFSLA
FDAYTKLGAHEISDIYEFGFKPKSWGNIPTMIGDMIIDALDRNPGKPKYIYASTMLNHG
PHSGFFPDITGCSRVMHDGLCSKLN DYVSRNRTSVDQSALIEKLMKRKKKTIIVNFGDH
MPSFEGHSTHLRFKREIKDYKTFYNINANFKIASREKYPDLISFIPSLVLDMAKVNSN
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>gene_794|GeneMark.hmm|161_aa|-|27681|28166 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
LFYPNLKIDIIKNNIDSLVMFKSIVIPVDLSDKQSIKAVFPALNFVNAFGAKIHLVHIM
PDFGMKVIEDYLPRHWVRDQKEKYNKLFDDMVKKFVPEEVEVKIYIGRGAIYDEVINYSE
KVNADLIILSAVRPQLKNYMLGPNASKIVRHSSISVLVVRD

>gene_795|GeneMark.hmm|304_aa|-|28141|29055 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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VPTSDSREALWLLHREKIDFAFTLSNLALQSYSGKGYFVTSKPFKDMRQLLRLHDEYFTV
IVRDGADV KRFADLAGMRLSNGPPKSDSSVIYKALDSYDFKNPPIDIELAYEDYAKKFC
GGAIDAIMIMTGHPSSLVNYIAHTCRSNFITIESDKIDLLLRNNPGFRKVVLESVYYPNI
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KFKN

>gene_796|GeneMark.hmm|404_aa|-|29065|30279 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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PNSVGRVAKKSVLAYFGTTCFAVIFGLGVAHIMKPGEGVVLDLGTAAPSNFKENGFILN
FLIEIIPSNVFAFADSNILQVFFSIFTGMIINSMGTPLDPVRDFIHSAAKLVLMISI
VVELSPYAAFALTAWVVGVTQGLDIMFSLGKLVGAIVVAYILQYLIFGLFIVVFCRLSPIP
FYKKSIEYQMIAISTGSSKASLATTMQVCRHKLGVSESSTSFVLP LGAAINMDGLAIKLG
LSAMFFAQILGVELALSDYMVIIILVGTVGSIGGAGIPGSFIIMLPIMLT SVGLPIEGVAL
LVGVDRVLDLLSTTINITGDATITLVIDSTEGTLDRDMYNSDQV

>gene_797|GeneMark.hmm|106_aa|-|30327|30647 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
LILGSAKYCVILTTTDCETAILIAKTLTENKLAACVQMDRVESFFVYEAKNERQKEFRL
LIKARSDSYQAI EESILSKHNYQLPQIIMLDVAAGLPEYLNWIDGK

>gene_798|GeneMark.hmm|138_aa|-|30644|31060 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
VIECTRIEFDAGHRVIGHKHKCKYLHGHRYVLEVTARSEELDELGMVVDFGVLDVVKG
WIDENFDHNVILHKEDKELGAFITNHTGQKIYYLNANPTAENIALHLKSDIIPMLFVENS
FSIVKIRLFETPNSFVEV

>gene_799|GeneMark.hmm|132_aa|-|31070|31468 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MSNTILVKIILPAQMILETEADMVNIPGSDGMFGVLP GHAKLTSGIDIGVITLVSDFEQ
RYFVYGGVAQVTGEELNIITEFAVDLTKNKVNVLDNITNLKSDLSDEEVGSVEANIIAG
QIERYETLLKFI

>gene_800|GeneMark.hmm|478_aa|-|31472|32908 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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DSTDGLTRGIVVTDGKPIQVPVVGKGT LGRIMNVIGESIDELGPIKTKEFSSIYRDAPAF
DEQSTERSILVTGIKVVDLLAPYAKGGKIGLFGGAGVGKTVIIMELINNVAKAHGGYTAF
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FRDLDDGGQDVLFFVDNIFRFTQAGSEISATLGRIPSAVGYQPTLATDMGILQERITSTKT
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VVGERHYKIAREVQKVLQTYKSLQDIIAILGLDELSEEDKLIVSRARKIQKFLSQPFHVA
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>gene_801|GeneMark.hmm|290_aa|-|33041|33913 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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NLMDLPICDRKFFSEDLKKMSHLLVIMT SERGLCGGFNSSVIRSAKRDIARFQKEGKQVK
LLVIGKKGCDAFSRKYADMIEGTYHNNKASSACVSLEVKNKIMEMVENE EIGACYMYYNL
FKNAMTQILTTEQVLP AHTADEAESGGVSEY EYEGENVVHNVIDLYIGGQIN YGLLSRA
SEEC SRMTAMD NATRNAGDLIDSLTLKLNRSRQA IITTELTEIISGAEAV

>gene_802|GeneMark.hmm|513_aa|-|33920|35461 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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GMVLNLETD MVGVVIMGNDSSVRQGD KVERTGEILQTPVGPAMLGRVVDALGRPIDGKGE

IVTKHRSQVEVKAPGIISRKSVHEPVQTGIKAI DALIPIGRGQRELIIGDRQTGKTAIAI
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PLQFLAPYTGCSIAEYFRDKGQHALLIYDDLSKHAVAYRQISLLRRPPGREAYPGDVFY
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IRPAVNVGISVSRVGSAAQIKAMKQVAGSMKLELAQFREMEAFSQFGSDLDASTQRLISH
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>gene_803|GeneMark.hmm|183_aa|-|35515|36066 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MLLDLKVVKNYAQLFLKAKDLSKEDKILEQISIISDITEASPLAKEVLCSPIIDHSLKI
KLIDLLAKKYKFDKISQRFLYVLVKNTRCNFISKIVDEFKMLAESKGIKAVNVSSAFKL
GKKELSFYKGFLETELNKKIELTTKEDASLIGGVVIEYDSNLIDCSVHGALEKIQQVALK
SKV

>gene_804|GeneMark.hmm|420_aa|-|36172|37434 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
VKLKERSYIIAFCATIVRYDYALFGLSASLISKHFMPGKDNSEQMLVFFAIFSVAVLA
RPVGSIIIFGKIADRVSRIVSVKIATVMAIISTSLIAVIPSFELISWFSVAALIFCRMVFM
MSLAGEVDIAKVYVAEKIGNEKRHFGAGIVSFSSQIGVLLASVMYHIAISYEEIKWLWKM
NFVIGGILGLAVFMMRGYFSESKVFLKEATTGSRLDADEGIISIIWNNKLFVLSSIVNG
MIGGSYHFLVVFLGAFANVINIIPPEQAASNSKLIALLYGVACILSGYIADKVKVIAQV
SIALTASIICVLVMEFMVEMNVFVIELHYTLAFIVPFYTPCAIKVQSLFPIGIRMRMFS
LSHSIGSMIFSSTTPFICMLLWKSTELPSIVLSYFLAQLGILFFVMIYIANKNYVSMFKT

>gene_805|GeneMark.hmm|210_aa|+|37529|38161 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MIGKLGKIDSIDDGYFIIDVGGVGYMVYCSGKTMSKLVPEYAEILVETHVREDHIHLY
GFYDMDEKSMFNILQSVKGVGTRMALGILSHLAPVEIQLALSAQDKTMFLSVSGVGKCLA
DRIITELKDKFPSTGVISPAAMAASAARGGASQAHSVGMANDASALANLGIKIDAQN
RVQTIIASNPDISINELIRLALKTGASSTI

>gene_806|GeneMark.hmm|343_aa|+|38158|39189 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MTAEILSGNELENDADSSIRPGYLQEFVQGEHIKSNLIGIFIQAANKNREEALDHTLFYGP
GLGKTSLAHIVAREMEVNFKATSGPTLSKAADLAAILTNLQENDVLFIDEIHRHLIAIEE
ILYSAMEDFSLDIIIGEGPAARSVRIDLPKFTLIGATTRMGLLSNPLRDRFGIPLRLNFY
TTDELVSVINRAAKLFKTNITDKGAQEIAKRSRGTPRIALRLLKRVRFATVDNKSEIDE
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LIQIGLLQRTSRGRMITNNAYQHGLNSPQASGTGTQETLFDE

>gene_807|GeneMark.hmm|412_aa|+|39640|40878 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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TAIYALEKECKDSIKEVAISLSGTGVKSYIINHKKLGNQTISKQDIKLINKALSDFKV
KDQEIHYFPMFVIDEGQIVDNPVGMYSVRSCHLHIIADSLMLMNLKCLDKCHVRI
NDVTVAIYASALACLSADEKELGSIIVDIGSHTTSFGVFLNGQIVYVGHVPIGSMHITTD

IAKQFSISLHEADKLIKILYGNANPDLISKDTTIRLDDISSSENYHADLSITTIELSKMIH
SRIEEIFLNKIQYNHISMDNLISRRMIVITGGASSMPGIKNLAAEIFQKQIRIAKPENLP
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>gene_808|GeneMark.hmm|330_aa|+|40857|41849 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
VAQRKRLVVLISLVALILYVALIYPINAHASVWIPKTNEYKYYSFSIIDKRSENKKIKW
ADLFVKDQEMIHKLTKRQNAIKAKADDENRSLFNHEIAELNDNAAFLKEFKEYKMILGSL
GEDKTSNFELEYGINDHQSLGMKIGYKTDNFLRSITPHYTEQKTGKDFELFYKYQLLKQE
GWIVAISPSLQYSTYTGCKPYRHFDLALMAGKSRLHKNNYTLFYEFGASVHAHSKENSLS
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TIQVGYFAKGSVLVARGYNVSGFIFSLWFSL

>gene_809|GeneMark.hmm|585_aa|+|41834|43591 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MVQPIINAACKFSSIANRSKPGDDCIINSLTANDWPGGDHVDNESIIESLIKNRQMP
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IRKRDLTQILEKHFSHKQSIWASNHLNSLNKDACAAGVNYIKMVTGFSVIFFAIFFLFSN
LFNIVNNLLYLSQNILKAALFKNGFRKTDKSLAKRTGPLPIYSVLIPLYKEDIKAKFILK
SIELLDYPKDKLDVKLIEADDILTIRALAVLDIPSIVQLIKVPYSLPRTKPKALNYAMG
FARGEFTIYDAEDRPDSDQLLKALYAFETLTDDYACVQAKLNFYNAKENILTRFFSLEY
RIWFEYFLKGLSFLNIPIPLGGTSNHFKIDKLKEVGYWDAYNVTEDADLGIRLYLRGYKV
HIIDSVTTEEAPVNIYDWIAQRSRWIKGYLQTCVFMKAKKDRKVFSLQDSLSVYVFGVL
STYSFLCLPWLFTSLLLDVDPYIHYLLILNGVLSLSYLYATAFLALMRERSNKAPSLGA
ASLLWPLYFILHTIASYRAIYEIVSPFKWNKTPHGVSIDEIEE

>gene_810|GeneMark.hmm|82_aa|+|43621|43869 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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KGPKFNNLEIERPHGVVRSYEV

>gene_811|GeneMark.hmm|59_aa|+|44054|44233 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MKKLLALLQTVILLFLIPGVPIARWCKVEEDKMLFRMTINIIYYLTIAVFALIENISDL

>gene_812|GeneMark.hmm|719_aa|+|44394|46553 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MHHDSNITDLNPPQIEAVNHTEGALLVLAGAGTGKTKVLTCRANIIEKNLAYPSGILAV
TFTNKAAREMQERVSSMINADGLNIGTFHSIASRIVRSHVELLDINLNKTFTIIDQDDQV
KLVKNIAIQKNVDVKQYAPKMIHAIISRWKQDQALLPAKLSSADTPSPAHSIAKMIYREYQ
IQMQASNVMDFGDLLLYCNQLLIQNPDILEHYQNKFKYVVLVDEYQDTNAVQYIWLRLMLAN
KHKNICCVGDDQSIYSWRGAEVKNILRFEHDFPNAKVIKLEQNYRSTSYLNAASSIIQ
NNKSRHGKKLWTEQKSGEKINIISCWWDKEEARFISTKVEEIIHSSKYNPSQIAILVRAG
FQTRAFEETFISNALPYQIIGGLRFYERMEIRDLLSYIRLCINHNDNLALERIINTPKRS
IGNVTLKKIKDYASEGEISVFDALQRMLAENIFKGAASLEQFVTIILSAAAKYESGTA
IEATKFILEESKYIPLLKEEKTDESRGRIENINEMLRAIDFEDNIYEFVEHSSLVMDNAS
LEEGFGGTVKIMTLHAAKGLEFDLVFLPGWEENIFPHQKALSEEGGKGLEEERRIAYVGI

TRAKKELYITHAESRRVFAEFVNSLPSRFLKEIPEEYCNDRSSTNRLNYVASKHNFSMQT
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>gene_813|GeneMark.hmm|441_aa|+|46728|48053 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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LSTGIFKRAMILGGSAGVQIYSTNDEGERIDKPAENGLPITYALSHGSRTLIKIPARSG
DQVINWLTSGNPAISGMSNTQTTQK GALADGKAVYNRPAATHAIGFTNDEPRELKSMLIG
VRDFLSSKILGRRTTKHYGVDLGLCMESGAAPDGKNGHLYIHYPTEARPGAILFGCESH
APSSSQHSKVGNSNPVSPTGCSKFKVLKHKKIAGETEYNTIIPDKYHGMIGALDDQGV
KALITIEADKFGKSLALTMPQNSPFDIAQYVNSPETEKNLRTLPELPTSAQKTPAPLAK
PNLFIRIANKVSFGLLFHDTMKEYKSEKKRYKIQSAIGAENTNSPPKSLRKRPHPLTP
PPPLTPSRTPPTPTQEASRIR

>gene_814|GeneMark.hmm|140_aa|+|48299|48721 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
MIIKYP CNITKDQDRFLVTFPDFPEALTEGLNLEEALFNAIEALTLTLEARLDEKIDIPT
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>gene_815|GeneMark.hmm|333_aa|-|48787|49788 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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SYKKMNGNDAIFSTSRLFRKIFLENNLEVLKAAAEKDILSEVLAAHHLNDEVIHAVFYNSK
MFAQVFISVSDEQLSRVLNGYDAWGLGLLLSEATKANVLKEVIEKIGGKFTPDVASSLLS
ATCLAEVSSVLEAFASCSINFSDAWNKLKLDQAQKNVLTDLVESGALPTMIELSSELSIDW
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VVIGACEAIAECCDFPVDVQNELAGFCENLPE

>gene_816|GeneMark.hmm|420_aa|+|50112|51374 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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GALQIFRILYPAKFSRMLGFMVFFGLITAVYAGVPISQIIQSIGMDYTVSILLYSGIVLA
FVTYVLM PKSTNTASESSMLGDIAIIFNYRLFSTSIFAGLMVGPVEGFADAWGSAFLIN
VYGIKTIANSITLSVLLGMCAGCIILPYIAEKTLYFGVTIFSGLVMI LGFVYILNGKA
SADSLYYACIIIGVFCAYQVVI IAKIASFVSSDRSGMAAAIANMIIMFFGWVVFHNSIGMR
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>gene_817|GeneMark.hmm|455_aa|+|51383|52750 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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YSGKKIKGNIYILNREFSVPPAMGDKTCSDITYCMGAPVTLVHINKNCSRLPVSAKRVGK
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NLSNVKYHLKKQLAKAGIQLK GKILYKKTLPKGRVSSVSKSLQDIVAIALKQSDNFIMD
YLLAELATQNNQHEWRLAVSS LKLVHEKLG VNLQNSVIKDVSGLSRSNLIINQFDSLL

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>gene_818|GeneMark.hmm|184_aa|+|52773|53327 >NVVL01000045.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23472, whole genome shotgun sequence
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IKKPIYAFIIFAGDVPIGYMQYYNSHDFPPEQSYNCSEFLEHCAGLDWYIGEVEFIGKGI
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SRIS

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>gene_820|GeneMark.hmm|266_aa|+|65|865 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MLKARTFLRTKAEKATLEAETATKAKTNFLAFTAHEIRSPLGFIITGSEMMAKGF TGKLS
KQHQEYAEGIHENAQQILEFLSDILDESQIIEGKFKIRNTQTQLEDVINEAIKVN LARYH
KKKINVVSKMEENLPLLICDRRRILQVLSNLISNSLKYSDHHTTITLTGKVVNNKMEVQI
IDEGIGMDEKGINIALSSYGTLEHGRHYSYGLGLPIVKMLLNAHDATLSIKSEKSKG
TVVKIVFPKYKLVYNAPNLDKTKGQS

>gene_821|GeneMark.hmm|367_aa|+|869|1972 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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ILIAMMDLRLIYRFSYLFYIVTLLLLIIVELTGKSAKGATRWLDFGLFTVQPSELVKISV
VLMLAKYFHESDKYNTSEYAIIPIIAAAIPVLVIKEPDLGTGIITIIVAAAIFFAAGV
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FGKGLLSGTQSHLNFLPEHQTD FIFSF LAEELGFVGGMVLLILYSLLISSLAVSINCRS
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VNQRSNV

>gene_822|GeneMark.hmm|166_aa|+|1980|2480 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MLKSIYNFLLRALSALYLALLCLLPFQWHKIGSYSEIFPAFDLIIVFYLN TYKNLQHWHL
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>gene_823|GeneMark.hmm|599_aa|+|2470|4269 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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PDRGQIFDVNENIIAKNNTCFHLFLDKNVNPRFSKEISLVTEILELDDVHIKEVQKRVRN
AGRRIAAVVIDCLNWKQVAIIEERRSEFKSLFVDTGFNRFYRSGTATAHIVGHLGKVRKN
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NPYKPLIDKTIRSLYPPGSIFKIITVLAALLESVDPADKIICTGGPVIKGSKYFRCARSR
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WKKERYGTKWRTGDTLNLISGQGDLLSTPMQLVRLIAAIASNGKLFTRIVKGEPEYPT
QIDISPEHLGILKTALYHTMNSKGGTGYANRINYKSMRMAGKTGTAQVQSKKHTHDNLSR
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>gene_824|GeneMark.hmm|280_aa|-|4329|5171 >NVVL01000046.1 Rickettsiales
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RRKSSEPLAYILGQQEFYGLERIDRNVLI PRPETELLIDLVLNDPLPHNKTIKILDGTT
GSGAISIALAKHIQAASITATDISKQALEIAKINAEIHDVSGQINFRISDWYDQLGEAKY
DYIISNPPYIAKSEQDQMAKETLLFEPELALYAPEEGLAAYKSIINAASQHLKPGGRLLL
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>gene_825|GeneMark.hmm|249_aa|-|5174|5923 >NVVL01000046.1 Rickettsiales
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NRNAVNVIDSGKKCWIRHDL DVEEMQKAAKYLLGHDFSSFRASACQSKSPFKTLDKIQI
IKNGDDIEIYFALSFLHMMVRNIVGSLLMVGKGHWRRAEKIKDVLEAKDRKAAGFTAPSE
GLYFLKVDY

>gene_826|GeneMark.hmm|684_aa|-|5924|7978 >NVVL01000046.1 Rickettsiales
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MGGVELLSRENEIVIAKRIDEGKELMLNSLCSPLAMKRFIKWFEDLVNENILLRDLIDL
DANLVTDTGMIEENDLIEKEEQEELAEQQVVERQVAEEDLEPKDGLKAGAGKKSNDPSDA
DSDADSM EKEDTPSLSVTAMEAELLPSITDKMEEIAGICEELLQKSREYFASSASTEKKS
SLKNDKAYTKTIATLVEAVTSVHFSSKRVEEILTDVYTANKALVSKEMELLKLAEKHKVK
RPSFLKEYVGAHLNEEWLEKLHKKKEAAWRNFLREEKEAIDKFLANIREAEEAAGLNVPE
FKRVVNAIQGERQASRAKKEMIEANRLRVISIAKKYSNRGLQFLDLIQEGNIGLMKA
VDKFEYSRGGFKFSTYATWWIRQAITRSIADQARTIRIPVHMIETINKIIRTSRQMMTELGYE
PTPAEIAARLAMPIDRVRKVMKIAKEPVLENPVGDEDEDGSLGDFIEDKNAVLPNEAAFQ
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GCSAHGDVIRFVSEINGISYKDAAIKIAGENGIELPKVSKAQEKRYEESQIYNILELAS
QFFASNLNNDITKYLDKRGVSAESIKDFSIGYAPGGKQLEEFFARKSIDLKDLLKAGLVG
KKDDGRIYQIFNKRIMFPIRNIYKVVGFGRVIGDSL PKYINSPETLVFKKSDTLYGEN
IATGHSYKDNYSIIVEGYMDVIALHQAGFKQAVASLGTSVTENHLQKLWRS GDEIISCLD
GDTAGMRAAARLNNALVHIAHNKSVSFIELPKGSDPDDLKASGSKGFS DLLQRRTQLS
EMIWKNEYAGKSFNSAESRSALQKLEDYSAKIEDRTLKANFRRYFKDMIWNNLVRKKKS
NYNNNHGNNGNYSNNNSYGNNGYNNNNNKTISKELLASKEYSEMEFLEYSICAYMLKF

PEIIKKVHEDETLPNLMLLENRELDEFKNWIFDIITREEGSADQLIRENVENTGFYDITYLV
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bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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VIDKFLGQFLRFSEKTSFALSGASYMAFGFLITCLFFSQGLAITSWLILIIISDSFAALI
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IGIDDNFSIPVTYALSTFILGLML

>gene_829|GeneMark.hmm|162_aa|+|10578|11066 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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RILDGKGFSAEIIDTSKLSSTDSVKFGATVKLIDDKTEEECTYHVVGEEYADITKKMIS
VRSPLARAIIAKSVGDVVEVSTPKGKTYEILEITFQELDL

>gene_830|GeneMark.hmm|298_aa|+|11150|12046 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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VAKIAIKYKNYGLPVELVSEGNLGLMQAVKKYNPDLGHRSTYAMWWIKASIQEYVLKS
WSLVKIGTTAAQKLFSLGKVKHKITNMYARSVNEGDPYELANLGVTVKDVTEMSQRL
SGADLSLNRPVNRGDDSSSEMIPELLPEARPSHEDTLSQSQSLTNQKDVLSRAMCVLNDRE
VKILTARKLLDSPSTLDTLSNEYNISKERVRIENRAFQKQNYVVLGHMTEDGQVINC

>gene_831|GeneMark.hmm|271_aa|+|12106|12921 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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FAMSIYNQDGGVALACGNASRCLSRILFDETLGRNITLTVAGGRVVLCEYISKDAIKVNM
GVASFSESWMPESDLWNLVEHYPIEPKEMICVDVANPHLVIFSQSDQDKKLIGKNFQK
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>gene_832|GeneMark.hmm|422_aa|+|12890|14158 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MFFKGIISMNNSQEVVTFGCRLNIYESEIIKDNLAKSGTENVVVFNTCAVTKQAEKQARQ
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IMSVKETANHVMKSFDFGRARAFIQVQNGCDHRCTFCMIPFGRGNSRSVPIGVITQQVRL
VDDGYKEIVLTGVDVTAYGADLPGTPTFAQMIKRLSLVPLARLRLSSIDVAEIDDDLF
DLMAHNTRLMPHFHISLQSGDNMILKRMKRRHNRDQVIEFCHKLRKIRPEVSFGADIAG
FPTETDEM FENTRRLISEAAIQYLHVFPYSEREGTPAARMPQVPMEIRKKRAAILRAEGE
VELKFFFNQINIGRNVALLVEKNIAHSESFIPVKLEGNFDSGQLVSGKLVFEFDNEYMRAI
VA

>gene_833|GeneMark.hmm|316_aa|+|14164|15114 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MDKLDKISIIAGSWGTAALGCLAARSAREVMIIYNDPAITYEINSSCRNTKYFNDELHE

NLIATSQIKDTLKADIIILAIPSYAFSEILELLKSHGLKPSTILLIATKGLSENVPVQFLS
DKIESEFENPYAFISGPNMALEVVRNKFTAMTISSKDLSLAAKLADVFKSDMLDVTISDD
IITIQUIASIVKNIIAIRSGIMKSAGDGENAKAWLISTALAEISIISKALGGKPEANIALP
AVIGDLVLTCSYDISRNRFRGYEFHTHNYSKEFLTTYPLLVEGISSARLLGSLIKTYDLE
LPLISSIIDLLHVNY

>gene_834|GeneMark.hmm|305_aa|-|15203|16120 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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GAASAGDYFTGYLLEKAMSLDNIFVISMIFSFCKIPLKYQHRVLFWGILGVIMLRAIMIG
LGASLLARFEWILFVFAVFLIITGVKFTTASAENAIDVKNMYIYKLLASKLNVHPELAGN
KFIKKQKGLFVTPLFMALITVEIMDVIFAIDSIPAIFAVTQDSYIVYTSNIFAILGLRA
LFFLLSDIINRFKYMKYSLAVILILIGVKIFVAHFIEIPNYIPLLVTITLLALGMIASNS
KKLDT

>gene_835|GeneMark.hmm|183_aa|-|16216|16767 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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YKDKKIVISCRSGARSLSACTKILQDVPSAGLYHLDGGILAWKERGFKTIRKTEILPLER
QTQIALGGMIVLGNLLGYFVSFEWNLLSIFVGLGLINSATGWCGLMKLIACLPWNRQSD
QQK

>gene_836|GeneMark.hmm|394_aa|-|16978|18162 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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REEILALPDDKLELPIIIDDEVQKVPALLDEVHWLIENTNATFVLCGSSARKLKQQTGNTLL
GGRAIKYHFYPLVPEYKDFDLKIFNHGLIPSHFMSPNPRKLLQAYVEDYLTNEIRSE
GYVRNIPAFSRFLDSTIFSDGEMLNYNNIARDVGDIAKTVKEYYQILVDTLVGYLIYPYK
KKMNRDIISHTPKFYFDVGVATRIGKKHFENLAGAEAGRALEHFILMELMAFLNLTDS
HKLYYWRTRTKLEVDFILSDNVSKPIPIEIKISKLVHKTEFKPMKAFMKEHEVNRGYVVC
LEETSRKIKLDEDKEIIILPVEQFLANLWEKKLI

>gene_837|GeneMark.hmm|46_aa|+|18433|18573 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
VPLEIISKRLGHSSIQTMMRYAHLADEQICNATNNLSEAFGKAMEI

>gene_838|GeneMark.hmm|344_aa|-|18608|19642 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MKFHLHNSLNFIQLFVLLNIIFCCTNCLARNHTLEEYNTIKQAKHNSNNASKENFVPASC
SIVKATNGYPLLKNFNKVPNNSLYKYFNDISKKIPLGDFMLGYLHESGAGKKADGARAMK
YYNKALKRGSVDAMYLIALKKHSSITDHMVFGKTTFAFAKKEYKESLKLFLKAAKLNHDF
AQIMVATMYINGEIEYNNYKVAEKYIKKAIKTNEIDGYTALGAMYRDMGNFNKGTKYLEL
ASNKGSVVASIILFQDHLCTGDKDIDAILANKYKLAIDNAKAQSVSIQDIDFIFVDKCK
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>gene_839|GeneMark.hmm|407_aa|-|20228|21451 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence

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RDSYKGWELTYIYASVALVMSIVPSFGSAVGGYIVEYSEEWEDVFRFLIVVSSILLIYA
KFLPETNAYIGSGRSNRFSVALRVALRDKLLSSAFIVGAYNGIMFSFYIQMPFIFIERM
KMPPSEYGQLFLALTVANMAGGLFSRYLVKRFVSNRMRKIMGLTFSCIACLGLLGSTLWI
SETSSITFTAMMIFMPMSIHLMGHALIVPMMLKNALKDYYKVVG TAGAIFGALYYLV TAL
VSLMISLLHSNTINNYAYIYATLMVMCIGLLFMTFKWQNNATEPTFN

>gene_840|GeneMark.hmm|363_aa|-|21474|22565 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MTLKCIGVGLPNVGKSTLFNALTASANAEEANYPFCTIEPNTGIVSVPDSRLANLAENAG
SAKIIPAFIEFVDIAGLVKGASKGEG LGNKFLSHIREVD AIIHVLRFCEDVDVTHVHDKI
DPIEDA EVIETELIADLESVEKRVSGLT KAKSDKALLEELLELLKECQKILEQKPIRS
MQNV DQKKLAGLQLITSKPVLYVCNVLESEATSGNAH SKNVEAMAKKEGANHVVISKIE
AEISNLESEEEKQEF LGSIGLSETGLSKIIKSAYSLLDLMSFFTIGPKEAHAWTFEAGAL
APQAAGIIHTDFEKG FIRAEIISCM EYLEIGSEAKAKELGKMRVEGKDYVMQDGDVVHFR
FNV

>gene_841|GeneMark.hmm|33_aa|+|22647|22748 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MVFLTKGRGVLISVQAILTLILENERVLIGLSI

>gene_842|GeneMark.hmm|504_aa|-|22812|24326 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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RCMTNLDLLVPRALANFVAVRAGLFEYC NNNPSNNMMDYSPLSLATNEDLSPELR TLLH
KTGRYYFKRMKCE DP IEQETNLQHSV TAFHQVIKLE GELGLNEDFSLAQIKIPNINKIL
AESFFILGCNYIEEARQNDHASKTETLETARDHLKRSLDIYKLTHSISTQIFDIHYNLGK
ALYHLAVAKQD TDDGLL TQAENHLREALEFYVRS SHTKNITRTL IYLLKISIALNDGENE
SPEKTIYGELLDEI EATQEVSSDFRGRFNEWKATQNAANKSQCIEGYATTAPALPLSDAE
EVK GALPEVPGLLSSEISFPTEYASSDDELDWDS DLSLWNEARKISDDL TPTISPEL SGP
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>gene_843|GeneMark.hmm|327_aa|-|24521|25504 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MKFYSSGLADLIRKIEKGDVKSLLIHGVNHGFATTAIEQITKKLGLSVTNLTYKEVSAGK
LSLIANNQNFFGQKELIKISDTTTAINKEMKTLITDSQFYHFICFVSNDSLPASGIRKFF
EDKPNLASLGCYYDNEQTI AKMIVQQCKKRDKSIDEALFY LKSHLKG DQQI KSELQKL
FYTHDKPNITKDDILKTLSPDLLASGDEMCIFFAQKEPMRFLNEIEKLSQGKNEV LMI
RALIRYYLNIYNVAARIEDG SNIDIATRS LTPPIFFKYVDSFKRAARKTSSSDAIKILAA
LQDAEVSFKTNPSSFDLFETYIRVHGR

>gene_844|GeneMark.hmm|176_aa|-|25505|26035 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MNMLVLGEILTKYRSIFLVFTLLATLTSCGFHPVLSSGGDACTRELLGQIELSSMQSIEG
ADFYNRLKNILPYGREKKYLLKTTLSFSKDFSIIQKNSDILREMVAARVSYSLRDKETGK

IRISGSFSRLSSFNTTFSPYSNQVQQYNVQKNLAIMSAEEVRNRIMLFLERENKEK

>gene_845|GeneMark.hmm|716_aa|-|26151|28301 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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DSDAIDIKAIKMOVDEKLQSDINIEASEDDVDAFSNDSAEQNKQYKIQEVIRKQVLLVQ
VTKEERGNKGASMTTYISLAGKYCVLMPNKP SHNGISRKVSNRDERRRIKNVISSITELE
DSKTSSVIARTAAAGHTTLDIKRDYDYLVLKLNKIREITLKSQAPCFVHQEDGIILKTIR
DMFNRNVKEILVQGSEAYNSCIKFMGDIMPTHVRSVKEYKNKTPIFTKFGIEDQLIKLYQ
PVVHLPSSGGYIVINPTEALVSDVNSGRATSERNIEEMALKTNLEAAKEIAKQARIRDLS
GLLVLDLFDLNEARNRILERSLWEYFGKDKARIQTSHLSAFGLLEMSRQRLRPSFLERN
SDMCSHCSGKGLVRSDDSNAMLILRTVENEIHNGKFDIVNVYGAASAVIFLLNSRREEIS
FIEKKYSIKLDFIDRATSDSYSIEKIKLSDKNKADTPEELQPILQDTSEIYNQNSSQQ
KTKRKIEKAKRPQEKKKPKAPEETASSNSTSSNNNSNTSNTNNSNKEAENQTQDKTQNQQT
QDKNETPQAKEEQTAKPARSKKRIPRKRPRRGREQNKPAPT VKAEADKTPQGQDETT

>gene_846|GeneMark.hmm|392_aa|+|28553|29731 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MMRKRTILAFFAYSFCVVAYFVPIFANSIFIEGYLSRQSINFIEHDQIDAMHIYGYVVAT
ILLLVFFRYVAFKKLITFSVFLYILSTFAIVLAPLNEGVSWSWFFLHSASLIITPILMLW
YILCDDKINNNYSIAIYFSSILTAYLVVELVGYFIIYNQADFPLEGMVVSNLIPFGVFGS
ILGLSAVYEARIDGDDEQFYSIMRNMEIESLVGFTVFYVLILMLRGYDLYALINHLVILE
VRDIQFIMFIAMVIAIGVTIFLPFQVGEQKFNRHKLSISCIALMMILFTTLPYWGLYYIT
DIVCWFILGVLFYLLFSFHLLILSEKFDGINLFTALAIYALICCFGCYSGYLVGASSENT
IGENGLISISFVLLGLLLYMYFSKHKHLYK

>gene_847|GeneMark.hmm|444_aa|+|29731|31065 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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RYDKGDEVEGGKDYINCPLNKAQYHNFIALLASETTEFKWEKDTPYFNGCLPIEVMA
ERGVETLRFPGMPKPVGLTNQHDPQNKPYAVLQLRQDNKLGTLNMMVGFQTKLKYGSQKEI
FSCIPGLEKAEFARLGLHRNTFINSPKLLGSKLELKCLPNVRFAGQITGVEGYVESAAM
GLLAGMFASCEINGKSVQIPPADTAIGSLLAHLTNGADSSTFQPMNINFGLVPLEERIR
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>gene_848|GeneMark.hmm|610_aa|+|31090|32922 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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DKFINLNMEYVSNFQNLISDSLKFTGSDKQEQQS QSATDEKGAQEKASQTKDKYDKRF
QDPAWTENVYFDIFIKQYYLITSDWMRKNVKQYDLVNSKRYIEFATQHFDALSPSNFAF
TNPEVLKESLDSRLENIVNGMSNFLDKIKKQGNLFDISTTDRSFFRVGKNLAATSGKVIY
QNDLIQLICYEPKEKTR SIPVFIVPPWINKYYILDSEKNSMVKWLVDNMFQVFLVSWVN
PKKKLSGKDFEDYLKEGILDPEYEQIKKLGFEKINAVGYCIGGTLAAALS YLKENNKQYI
NSATFLTLLDFANPGEIGALINQDSLAEIEKTVNAKG YLDGKYLSNSFSLIRANDLVWS

FFVNNYLLGKAPTAFDILYWNADSSNLPKMYIYYLRNMYIENNLVKPNALEMLGTKIDL
SKIDTPSFWLAAQADHIALWKSVDYSHQHIGGEKIFCLTEAGHVAGVVNPEGNKKYSYML
GKDVGKDGVDQNNWKDAEEWQKNATNHKGSWWKSWKKWLTQNSGKLVSSIDYEKLDISIQA
PGNYVKKYNH

>gene_849|GeneMark.hmm|415_aa|+|33004|34251 >NVVL0100046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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GHHATLLRGTVRDTLPFFDVYITDWIDASQIPITDGSFDLDDFDYIINYTKLLGPDLHI
LAVCQPTVPVLAATAIMSADKDLHVPKSMILIGGPIDGRKNPTKPNHLAMEKDLAWFDQA
LVTNVPPNYPGYRRRVYPGFLQLSSFMMNMKKHVDSHVDLFKNLIIEDDEKTAKQKEYF
DEYLSVMDLPAEFYLTQIKVEFHDFSLAKGKVFVSRGRKVDLTAITKCALMGIEGEHDDIA
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>gene_850|GeneMark.hmm|245_aa|+|34335|35072 >NVVL0100046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MSATEKAQQVSTASSGADLSIISLVSSSDFVGLVILTLVLSVWSWAIASKLTHYSA
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IGHKERVLGAMYLARNRELETLDEKLGFLATIGSSAPFIFLFGTVWGMHSFQSIASSKN
TSLEVVAPGIAEALLATAIGLFVAIPAVMFYNYLSSEVDSINNKIDDFIGELNALISRAI
DEEKM

>gene_851|GeneMark.hmm|147_aa|+|35075|35518 >NVVL0100046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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>gene_852|GeneMark.hmm|287_aa|+|35518|36381 >NVVL0100046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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ERTIQKKAKIAKSKQIKNSKTAAPPKPKSAQKPKIKNKPNIPAKKKKIKVVEKQKEM
KQAPPKQKAAPERYKLKEDVIDSILKNLESESEGDSSKTPVKSFSARDKGSKYARGMEYD
EDSPLSITENLLVKSQFEKHWRLPVGAINLQDVRVMMRIKVEKDGSIKIEIKDVVCPNN
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>gene_853|GeneMark.hmm|439_aa|+|36403|37722 >NVVL0100046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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LKGSGMFRPISPAAFIEKKIGTRHKPLFAAWQQINASLLLNGDVSKLRSGLQVNFILWD
SILEASMMSEFELPEHLWRQVAHKISDRVYKKITGYAGYFNSKIAYVSETGPYLKRIKR
LAIMDQDGENHRYLTDGKDLVLTPrFSPDAKKILYLSYKNELPQVHMLDLRTGRSSLIGN
FPGMSFAPKFS PDGKKALLSIAKDGSTHIYEINLRNKR MKQLTKGISINTSPSYSPDGKK
IAFNDR LGMRQIFTMNRDGSNKQRISFGGGNYAEPNWSSRNYIAFTKITRDFGFTIGVM
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>gene_854|GeneMark.hmm|362_aa|+|38041|39129 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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PYFFNKISSLVCFISTLMFLRTIVQCNELIIILNSGIPLWRVFIPIIIMAFILIGIVVLFV
SSPIGTHGLQEYKLEAKLDGRENMNFTLTSGIFFFENFDGVKRVIQTRSITPNKKILS
DVTIFLIDSENNLTQRIDAKKAILENGVFKLKSLLTISRKRSETLEEELEPSSLSIENIM
QRFSGSPDMIHLWNMNNVIDKFSSSGLVVTTYQIHLYKQIFNPLFMATMTFVACWVGLNT
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>gene_855|GeneMark.hmm|347_aa|+|39184|40227 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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MRGRTPTDIEAIRPLRDGVIADFKGAEEMIKHFIRSVKDKRSFTGPLIIICVPSGSTPVE
RRAIQEAAESAGARDVYLIEEPMAAAIGAGLPVTEPTGSMIVDVGGGTTEVAVLSLGGIV
YARSVRVGGDKMDEAIIISYIRRNFNLLIGESTAEEKKQIGAAVLEGEPLKEMEIKGRD
LINGIPKEMTLNEKQIAESLAEPVSKIVEEVKNALECTPPELSSDIVDKGIVMTGGGALL
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>gene_856|GeneMark.hmm|279_aa|+|40233|41072 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
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LSAGVLIYNGSIDSVKLAYGRLSYFKDLESENRLKLELTELKIKQLALDARVENQALR
QMLRVPPKLRNMFVTAKIVGVSSTPFASSAVIQAGEADGVRVNDVVKGKSLIGRITIS
KNYSTVVLIDDHNSRIPLITSNSKARGLLAKQGDRKMIHLKEDHTATIGEMIYTSGDGK
IYPKGI AVAKIERVTHEGVFVKLVEHFDDMEFVIEESTL

>gene_857|GeneMark.hmm|677_aa|+|41107|43140 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MEEIEQTENDFIEIPRSGTENTVDGVYKIHLTKELSDLSNEFCKYYHTTNNATKENFFSI
VFENNFLAPLEYIDSLMRNPINGLNNIVTYSIAKLSSTKREHLVVIVDSYDEGSTLAAHL
ESAGTLSLEQIEAMVRKVTHLITRLQDNNIYGCSINPSNILMRDGKFFCIREFINSYPLF
HQEIPYIAPEIAECHEAARFNPTVKGDVYALGVYALYAYIKPGFLDDYEDAWDYNFARFE
HTTYKYLNNNEKIPERLRTFLKWLHDDATIRWDIDNIDLWLGHENSKIHYDSLNEKKSS
IEFNRSYSTMKSLAYGMFNHWSDAISVTKDSKLFKWASYIQTNTDILDVIKEILNTKSD
TSFIVTNAINSNAKIAKLLSVLDPNGPLRRDGLAVSAEAIPGFLYLLVTNKKAMINSVI
TLMKDETWFYADNKDIAGHLSLGSDFSFAAADSTKSSSIARGVERLVYSLNPNASCHS
ALLKGMYITNIAELLVALDDFAKNTKRFNIDRHITAFIAAKLDLKDVKPITFQNFPKL
SENSVIKGLSIINLLHQHEPEIEIPNICKVIGNDLNLLKEHLHNVEFKKELTSQIEEVA
QEGNIKGIKLLSNQQQFINDYNGYREACQEAKNLKKKIKSLTNNRGIFDKSLLLGQKLT
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>gene_858|GeneMark.hmm|151_aa|+|43165|43620 >NVVL01000046.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
MSKAVSENNFQFATSLIKIIAIVISLMVIVVSWYAFIFFIGTMLPTIFAIFYDRNRHRCL
SATVCSFNLIGVLPYMIIRIWESSVVDYLAKQLLTNIDTWMMIYGTAFIGQLLYVSMPLVLI

VKLYEAKTKVHISNYQNQHKEKCAKWDLGDC

>gene_859|GeneMark.hmm|394_aa|+|44031|45212 >NVVL01000046.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23537, whole genome shotgun sequence
VRHGLTLGSGIAKMILETYPSKKEELYNEHLQEISGANFTFRELDIIACIIHNRGEKKIA
SLLSISYRTVGSVHRNIMSKLGYNSREYIIDAVEKSGKLQYVRQYYFHLVMEAAFEKYLK
KIRGLANRSGIVCATDFNNVTEEEKSLELFTESLALANITLTDINLLKAEGSYEKARHN
LHIISMKSVNKLGLYQNIKDAENNSEETTGENIEKNVKKTTQENENRKNIHAVYFDKIDL
LTVQDMEHVDFRSKSNYYFVLELIGKLTGKPLVAEIIQEFKDAHQDLQKSWAGTGIAGG
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>gene_860|GeneMark.hmm|323_aa|+|146|1117 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MRQAGRYMPEYMAVRAGMDNFLDLCYDSKASKVTLQPVERFGFDAIIFSDILVLPHAL
GWDVAFKQGEGPVLRFKFESEKDLISDNFSAKINNIYDTSKVKGALPKNVSLIGFAGS
PWTVASYMLEGKQDFSVSKNFLYTKRSLAEKLIITEKTIEYLSGQIDAGAEVIQLF
DSWSGMLSGSEYHDFVIKPTKRIISALKQKYPHIPVIGFPRGAGYNYDQYIKHAGVDAVG
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GILQTPVENVEYLVDYVKNCQK

>gene_861|GeneMark.hmm|378_aa|+|1074|2210 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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KHIIPLAIFRYVLAWFISFRREDAAKKNYAHMGGKSPIYEETKKQADALREELSGKIDS
EFEFISMRHWHPMSEVAARLRDYMPEVILLPLYPQFSMTTSYSAIEDFKNSMHRNFS
KSAMSKIVLKTVCYPDEEYFIKSHAELITESIGKIKNDNYRILFSAHGLPVKNIKSGD
PYQWQJENTVKSITNLLSIKNLDYKITYQSKVGRLEWLTPSTEDEIKLAAEQGKEMIIVP
VAFVSEHIETLVELDIEYKEIANQYGVNYIRVPALGINKSFVKLSLRTILKFSKKEGEFL
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>gene_862|GeneMark.hmm|145_aa|+|2236|2673 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MEDYFLWYKAIHISVISWMAGMLYMPRLFAYHTKAETGSEMDKVFQLMELRLRIIINP
AMILTYFFGLLTAYIYGCVLGMWFHMKMLMVLGLTIFHHFLARWRKDFAKGENKHSEKF
YRIINEVPTIMMVIAVVMVVVKPFE

>gene_863|GeneMark.hmm|111_aa|+|2708|3043 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MYIFGVALHLISIVALTNESLTFSELLILCVIISLFSKAKELSEIDKTSIYNPFLKAVLV
RCLILSFPRELVVTYGDTALLYLLYMVIVVGMMDLYQTIKIIQPFMKRAN

>gene_864|GeneMark.hmm|314_aa|+|3079|4023 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNMKTIIIQSSPIRLDRYLRRREFSNLTQGVIEKALRSGAVKLNDSKPKSSTRIQKDDIL
TIAEGAFPDKLAGNAGDTKHFSQNVIALAEKLLSKYLLFSSDEFIAIDKPCNLATQGGSK

ISLSVDDALAYLNSQENSNDGYKLAHRLDKETSGILLIAKGAENAARLGTAQDKLIKKT
YIGLLSSCPAELEGKIVNIGKDRSGIFEVKELASGGKLAETHYKVLKKGSSVLVQFN
PLTGRMHQLRFHSHKIGCPIIGDKKYGGKESARMFLHAQKIVISPAVFGAEIIIESPPAE
EFGFDADVAAQISG

>gene_865|GeneMark.hmm|219_aa|-|4024|4683 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MAKLFYVGVPKLVRTHCTCKALPSNEASSNEPSSSELYETFTMMHNSLNVNAIREKSL
GSFLQRNPYIRIDNDTIKTISSILSCSSTEVTINIFTELRYLLEKIPKEHLNAYIAHLKT
LEVSDTVDILAESIYALQTLQWLQTPPEIKGVVQESQKSPAPPEIDALIISYILPVETV
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>gene_866|GeneMark.hmm|547_aa|-|4859|6502 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MFSVLSSGKVSCLKYIVTMENSKKTGFLAELRKIFWPIEWHENKKFIPMALMMACILFNY
ATLRSVKDGLVTHIGPEAISFLKTYVVLPSAIMMMIAYAKLCNMMSQKQVFYTVTSFFL
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LSLLFWQFANQITKTDEAKRFYSMFGLLGNVALPLVALTLWFFMSEDTHIVPDDVKLIPV
LCITIVSGLTILFLYSWINRNVLTDPALCDQEKPNSTKAKKLSLGESEFKMIFTSKYL
LIAMLVLSYGVSNLVEGVWKAKIHELHPTVEAYTSYMGTFQAYQGFVAIFFMLVGSNIL
RRVSWQTAAIFTPIMILCTGLAFFSFIFFGDTMGLQVAAFLGTGPLAMVVMIGMAQNVLS
KGVKYSLFDSTKEMAYIPLDDEMKTGKAAVDVIGGRFGKSGGGIIQSTFFILMPAASF
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SKSDSKA

>gene_867|GeneMark.hmm|306_aa|-|6524|7444 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNNPFSHPRVTHNLHFITKYKFLEQFESFFPEDTLGSSSEVKSFTVDSQPNDLWSMEVY
LPAEPDLKLLASELSAFAEQHDLEIESELTKQJEDKDWVAEYQSQLKPIIAGQFFITSS
SAKAACPKEKTPIFIEASRAFGTGDHATTSLCIEAMEALS DIKFKNIFDIGTGSGILSFA
ADKIWPGTQLLACDIEEISVKLAKENQIHNSHIDFYQNTETDLAIPDSRVGKFDLIVSN
ILAKPLISMANSIRQITSQECRVILSGFLDYQENEVTNAYITEGFEVEEVLRRNSWVCLT
LKVKRY

>gene_868|GeneMark.hmm|124_aa|+|7519|7893 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNKIRNIAICLCLTFANITIAADKSGVSKSKTKLRDPAEFLRVIDDYKAYVATVSPETR
DEIIVYRKEIAKLNKEKKLFYRKLKSKNAQGYLKQEQQYKKKLLPLNRKSLINIQTGQKKS
RKKG

>gene_869|GeneMark.hmm|61_aa|+|8014|8199 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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F

>gene_870|GeneMark.hmm|193_aa|-|8263|8844 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence

MKKILLTAMATTMLASPSAYAMEDVFYIKANAGLSQLSKIQTLKSKNKLFFGAGIGYNVI
DSVRIELMLEHFSDPLHKKGDVKLQGGKANTLMFNGLVNIFDAHLVNIFVGAGAGFSEVSA
VKSGETDAANNGEIKKKHNLAFAGYLGASWELGGTASLEITYSYRDLGKTRQLNEKSFHY
KGGHLSAGLRFDI

>gene_871|GeneMark.hmm|82_aa|+|8961|9209 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MLLPVDMDCHESEHKPGGGDRHECGARFESGHEREAGHEPHNNHEIFVADDLFSQPYYLH
LQGGRRALLHAENAALECYRFS

>gene_872|GeneMark.hmm|103_aa|-|9332|9643 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MQQPKPVITKDKIAERLKGRLGLSSVICEITSHIFSEILNITEQEGKMLMLKNFGVWRI
NHKAARVGFNIKSGNSVRITPRSVLRFIPSKSFKEQINKSDAE

>gene_873|GeneMark.hmm|332_aa|-|9698|10696 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MASKIIGSGGYLPTKVLNSDLAKSIDTSDEWIRSRTGITQRHIAAEGEYSSHMAHKAAL
AAIENACINDACINDARINDAGIDASVIDLIIVCTNTPDNSFPSTANKLQGYLGLGNIPS
FDMQAICSGFIYGMQVADSMIKSGKYKTVLLVCAEKMSLLNWQDRGTCILFGDGAGAVI
LQQTDSDSGIISNIYSDGSMYDMLYTDGGVSMNGKSGQVQMKGQEVFKKAIEKMAESTG
LLESNNLKISDIDYFIPHQANLRIINSLAKKLNIDDKKIITTIQKHANCSAASIPLAFH
ELKSKGLFKPGDILAFTAFGAGATWGSLLVRW

>gene_874|GeneMark.hmm|65_aa|-|10704|10901 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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STDSE

>gene_875|GeneMark.hmm|174_aa|+|10969|11493 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
LYYISLTKSRIFYIKNFMTQLNTYFLRLFSAILLLVLTGCQTIDVRGQFVSDTAIEKLSA
QKPTKQEVTDMIGSPTYIPDYSKNTWYYIQRSLARKAWFTPKVTEQRIIKITFNSKDKLK
KVQLLENLQENISAKSQFTKTHGTEKSGIQTFVKNIGRFNKTSTGNSRSKSKK

>gene_876|GeneMark.hmm|100_aa|+|11651|11953 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MINDDELKQLKLSKLSFQPEELKTFSAKLAGVLDMIDEMQELDISGVKPLRSVLDGSQR
FREDKIENSISEDLFKNTPEEIAEFAKEIKCFVVPKVIE

>gene_877|GeneMark.hmm|493_aa|+|11955|13436 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNDLIKLSITEALSAMKEKFTPSELVEAHIKSAERTKNLSYITETFD SARLLAEKADQ
HYNNGTARKLEGIPVAVKDLFCTNGVKTTAGSKMLSNFSPTYDSTVSKNIADSGSIMLGK
TNMDEFAMGSSNTTSYFGNVISPWKEIGSDKDLVPGSSGSSAVSVSAFSSMAALGSDTG
GSIRQPAAFTGIFGMKPTYGRCSRWGMVAFASSLDQAGIFTRSTDAALMLEAMMGFDEK
DSTSIDQSVPELVSACKKSVKGMRVGVPTDLMELDGINSEIVKMWQDSIAMMRAEGAEIV

DIKLPHAKYALSYYYVIAPAEASSNLSRYDGVRYGHRDTKTLNLDMMYIQRTEGFGE
VKRRIMIGTYVLSSSHMDAYYTKAQRVRRLLISNDFKDAYQKADVILLPSTPTAAF
GIHDN QDDPRAMYLNLDLFTIPASLAGLPCASVPAALSVSGLPLGMQLVAPALDE
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>gene_878|GeneMark.hmm|481_aa|+|13437|14882 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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KYCVEQAIKTGLAINAEINKLSVFDRKNYFYPDLPQGYQISQFYLPVQNGHLILTLEDG
SEKKIRINRIHLEQDAGKSIHQHPDYSLIDLNRSGIALIEVVTEPDMSSPYEAAEYVKK
LRNIMRYVGSCDGNMDQGSLRCDANISVRRPGGELGTRCEIKNLNSIRNIVKAIEYEAMR
QVELLES GGVAQETRLFNTEGETKTMRSKEDANDYRYFPDPLLPVRVNDDMIERLRS
ELPELPDAKVGRYISELGLSKYDAEVIVADGAITDYFEEASKGASAKLIANWLTS
ELFR LNKNSMSLAECKITPSMLRDMVVLIEKGTISGKIAKTVFDDMFESGQAAEKIVKEKGLTQ
MSDRGSIEPIIDEIIKANPDSVEAYRGGKDKLFGFFVGQVMKKTGGKASPQM
VNDILKEK L

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bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MTIKIHTQNDFAKMRIAGKVA AETLDHITEHVQVGVTDDHIDKLCHDFMVSKGAIPATLG
YKGYTKSCCTSINHVVCHGIPSDKCLKNGDIVNIDVTAIVDGHGDTSRMFYVGDVGVKQ
ARLTQVTEAMMLAIDKVKPGAHLGDIGHAIQTHAEKHNYSVVRDYTGHHGIGRVFHDEPS
VLHYGKAGKGVVLEEGMFFTIEP
MINAGKYITILSKFDGWTVTTRDKSLSAQFEHTIGVT KDGAEIFTSSSKNWLYPPY
GQKK

>gene_880|GeneMark.hmm|232_aa|+|15727|16425 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MDKKSDDKQPHYLGHKRLKDKFLSNARSTLGDYELLELLLFQSIPRRDVKPLAKSLLQ
KFGGLRQLVHADKEMIMSVDDMTEGSFLQLKIIQEMLSRILYEEVQKNKNISSWGALLDY
LKFNMGCLKIEQFRVLFNKRNALIADEV
MATGTIDQTPVYPREIVKKALFYEAGAILV HNHPSGNPDPSKADIELTRQISTACKTINVT
LHDHVIIASNNYYSFKTNRL

>gene_881|GeneMark.hmm|101_aa|+|16422|16727 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MKLVKDEVNKLIYKIFKRKHPILAEMIINWGRIVGIFSDKSMPPFKIVTSKEAGKKINIL
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>gene_882|GeneMark.hmm|102_aa|+|16741|17049 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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>gene_883|GeneMark.hmm|601_aa|+|17055|18860 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MISNNVKQLAEYLALHIKSLIVLVLSLSIVAASLLSIGYVFRQLIDHGISNNQLDEIHGA
IYWIILLIAVFSIGSFFRSYFINLITVKVISKLKTDTHSNLLKIDLVAFEDLKVGDII
SR LGSDIELIGGLIINFLSFFIRNSIMLCGAILMFIQSPKLSLLVLVSIPLLLFPLRLSK

YVRRLSRSVLDEQGILASNIEENFTAIRTLAYNQQEFIANKFNNHIAHYIKHAGLRFRA
RSLFFALAIAGSITSVIWIGSVDILSGSMSSGQMISFIYYAVIVGTSAAAGIAELFSE
IQAPLAALDRVLELKHKLVAQKSGVMQELSANGGGSKEIPTKVVPAKVVSSGDCSIRFEK
VRFAYPARADLVVLDGISLEIEHKKFTGIVGKSGSGKSTLMQLLLKFYNHQSGDIFIGSD
NINTLQDSLIRSKIAYVEQHPTIFSGTIKSNIAFSNPNATEAELREVAEICGILDFAKDM
KDGLDTPIGEKGVRISGGQKQRIAIARALIYRPEILLDEATSALDNASEKKILQNIIRSL
MKSKTIISIAHRISSIEDADIILVIDKGVLESGKHAELLRNSQIYNVLYKEQSDLKLAD
K

>gene_884|GeneMark.hmm|154_aa|+|19022|19486 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNKVICLIMNLISLFIAQTSLASKPGAADANHSSVLEISDAWARKSMSPNNNSAAYMKI
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>gene_885|GeneMark.hmm|328_aa|-|19811|20797 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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FDEGVGMPVSCGHIVTVHYKILNMKNITLERTATFPLGSEEIAPGLDAVIVGMRTGQTR
HATISNKYIPGTEQDKESSFKINVLLQEIMPKHVFGEDVKIFDSKLAYKRPLVCGNKTIY
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YASNFSTIFDPKELPKDEYFMVEFFNFE

>gene_886|GeneMark.hmm|615_aa|+|20872|22719 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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LGNVTPDDWRWHMYDTLKASHWLADQDSVEEMCKGAGEVINMLDQLGVEFDRNKNKIDQ
KIYGGHTTEFGQGGLAFRACYSKDKTGHSIMHKLQFHATEKQIAFYNYNFSLELIMQNER
CCGVLCCLDMEKGILNVITAGNVIIASGGYSQIYATATSSAAGTGDGCGLVAGAGGALQDM
EFVQFHPTALRAGVLITEAARSAGGKLLNGDGERFMKKYAPKFMELAPRDIVARAISTEI
SQGRGCGAEKNHVFLDLTHLSREEIKENLPTIFENCSSFGGIDPSEEYIPIAPAAHYTMG
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ELDNSGIGVDAGVSASNILTNFEQIFKGEIIDIDKMTRDLRNIMSMHVGFREKKGLQSA
LVELMQLKEQYEQSALEYQPLQDKSSQDKSSQDESLODESLODKSSWDEFLQWNIELQHY
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>gene_887|GeneMark.hmm|217_aa|+|22787|23440 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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>gene_888|GeneMark.hmm|124_aa|-|23494|23868 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence

MSDSVNIKEVDEFIQRKRIYESRLAQQMHRQHAKMIDVTQQQLIKYEKGINRISLGRMLL
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EQAA

>gene_889|GeneMark.hmm|298_aa|+|24156|25052 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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SGNQFHYSKGNMVMVSMPIEWEMFTDEGEVSYAIVIDIDFIILQQILGRMDKCKSTPP
KEVIESNLRPAALNKDMKATLLRLLRCLDSPAKVKILAPGILKEIFYNVLCGSKSSNLNCN
LANHNTPIRVAKALNYVNEHTNKPITVKMLAQEAGMSVSAFHTEFKKITAESPIQYVKK
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>gene_890|GeneMark.hmm|296_aa|+|25049|25939 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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GQEIQYNEGEYLTISLPVSIHETFGTKEKPVLGIIIDIDLMLNELIGKAKKDMIESDM
AIKNPSNTSCAPARNLQPIALDKCMHCAVLRLLHSFESKEKTRVMGNHFIKEILYNALCG
KDGAKLHDLVKYSQQAASIAKALNYVHEHINHRFSIEGLAHKANMSVSVFHRSFKEIMGD
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>gene_891|GeneMark.hmm|91_aa|-|26274|26549 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
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>gene_892|GeneMark.hmm|95_aa|-|26554|26841 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MLLSLDNINGVRVMISMMSAKAAQSHFGEMLSLTIREPVAINRYGKRAAVVISNEEYEFKQ
KLEDLYWTAKAEAAQDGFSSKESD DLLNSILTS

>gene_893|GeneMark.hmm|960_aa|+|27516|30398 >NVVL0100047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MGAIMHFNLDIAVISAFSLIIIVGVVAGFGVKTIKDYALGGRNFSTATLTATIAATWIS
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VRLISAIASVLLSIGQLAIQVQILSMTLSHFLGLDAFLTITSSVIIIIGYSSFGGIRAVT
FTDVIQCITFGVFVPVFAFIWQSLGDTTLIAATFNSNTLFDYTELVNTDNP KFWPFLFL
FLFYSIPGLNPTMVQRMLMAKDSKQIKSSFLIAGVVSLVLYISVALISIVMFSHNPSLPL
EGDNIIMHIIDNELPTWLKSVAIISIMAMVMSTADSWINASSVLF AHDICPALKIDKFDE
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AMGVAAGTVIFWKWQLQAITGVDSVMIGVIAHIALFAAHYLLGEDGGGTSPGTSPGAGS
SFGKRKNTRRERA EKILQEMKDLNILSYCNKRLPESRMTYIYFSIAAFLTIISIFSIEKD
LYNMHTALITSLQAI VFSIATAFLCKALWSDLIKEYLGIIWVYSIFTGLALISSFLVLL
SKFSYVSLTILIMHLITISLLVGWRMSIIMIAACLWMSFSFYEGYIGEMVAGEIFDLK LK
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QAREIERLGATAQKILNNVNHRLPVGVMNFAEMLRDGLEKYDKEHLKMLSEEYV NNS
TRLSSMILNMLDLATLNAKKIELKKEKINFSKLVHERFENC RNIIYAQDKKALNFHLNIED
NVLVFADINIRQMIDNLVINAINFSEQGTIAIIVNSEEYFVSFTIKDKGKGIPKTEIYD

IFTPFKMGSNTESKAEGRGVGLALCKAVMEAHGGKISAESRPIGALFRVCLPYGKLGKGGK

>gene_894|GeneMark.hmm|1169_aa|-|30494|34003 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MNRCLVLIITLFLVLTGCSGDSCIEADDFGHAVYKVSARYAKSEIGGQPKNQVAPWRDSGY
KVNGRPLSITVKGWRYRYDRNNSDLSAWCAWYGSSGDSRKLAKICARLRDCHFIDEIMC
TETVDAQIDNAPCLFRNGVGAYALIAKKDPNLTPQSQRSPKGLSFHLAKPVDRSYEVYDF
IRENGKLLKRILGGRIYNYKQDANNYVNSTLYFKILDKFYDDNSGQYQIVVKSGIHRSN
ADPISHGIGLVKEYLFGDKKGLIKGIYLGIVNNPEYRTAVSALLTLYVMFTGLSYLAGNI
QITQMELVIRISKIAIVSALLSTEHSWNFFNDYLFVYFIGGVTQIIDMIMSAGATGPGSS
SIMALMLAPQTISKLLSLLFVDWAGFIYIILFFIALAFIMMVFFQA AVIYVTAIVAIGMI
ITMAPIFICFMLFGATRNLFDNWLKQLTSYAIQPIILFTGLALISMILRQEIYGLGFRV
CKKDFPKMTNADDTPVFGHESEEILGFTMKHSIFYWWFPDPMKGGFEKETS LIPIPLDN
FSKSRDGMRRDRERNPESGFCEAYGCDERYPDLPLFDVVKDRDRINAFQKGSFVQLDNLF
IIFIAIYLLHKFNRLSISVARFISDTSGNYAELESVEAGVRQDIKQHGPGLVTRAADITI
GKANRQKITALRDMQAQAKIRSAGKKIYTKASAFVDKRRIRGLEQEAISSSPNKAVLSEIR
KKSGLDSLKIKIGSLKQYARLANELRNMDSNLTAKQVSKLASQMSGKKYSALKNEFAQA
KYGMQYSALPENAKQQINTLHKDRALRDLAREAENVRMFQTEYIEAYARLSDKGIGLVGK
KSRLIRSEIEIRHDAKERKKHKQNKQQQIGREIIEIEGKHSAYSKLSGGREDALSLGV
AGGAWHEINTDPKADNHRLQTQAEIADQRLSTEREATARIIEDLSARHGTNVISPEFLA
EAERNGAADLEKYQNLEREDLNNRHLALTAKTDDGPVLMGEKYMQEYASDEQMKEIIDR
IHETEEVFAQYDQFLSRATYEDNLQFAEENLQENYAMKLDHYDRDNITAEEMPALLRSY
YDEADDISPEDAYSKIVQLEESISEFSSSQETLQQIDHRREELAEETDQHIENVNKHRTD
AGMEEYTPEARVELPVRRLRKIDDHLRNL

>gene_895|GeneMark.hmm|1136_aa|-|33996|37406 >NVVL01000047.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MRTIQLLLITICLAVHVDAYSGDGSRYDWMNRDLSDRGWGCIEPPHFTSTKGGKTTTLNL
DNKGVVWSSGISVEKDKLLKVNWSAGEVQRPEKYTVLYRIDPRFAKPQIFIQRYDYKQQ
KYISNFHKAGLLKYQDSRTLNNNYTKRFADFNKFFNSQSITIKKNDVINVTLIGSGEYFS
NDSQMRTLGYENEPLVIRTNSALTDNRMIYSNASPWCMAIGEDSSQYTDLCLKYPGYT
DSAENIETLVGGIQNPSFARNLISIGKCPGSANGRNNTLCYYDNGRGMQFKLAGKTIKNT
PEKFAVSSSSSKDFFYYKSDVNGKLEFVTQWDIAGMYNEMYTQNGKPVAKNWSWQFMTQW
PSFGNRSNFNSKLVDIRQNLNMFHFGRYFMRVEVGNSTASVSEADLNSINIEYTIMKN
GAPGSSAKGTSIGRFGSGNASKTGLSVWRVAGKNDNVTGVLHARTTSYTGSTWFSEKIYG
KLIKPLREKFARLTKTMYSKLVTDKNLQNIAMLMVIYISYIYIMFLGGSVKITIKDIVT
RIVKISLVVTLFSSSSWEFFNSYLFDALVSGSDYLMSSVIESTSQSGNVFGFIDPIFDK
YTDGSLWALLFIQLLQIHNGMTFFAIMTIYSILTYFRALIEVIVTYCLAFLGLAVLSIA
PLFIILIFERTKSMFDNYISTMFSYMIQPTILLIFFLMIDQIMSTHIAN TVVRSCWSTL
IEIKLGLDLRHMGIPLSFSIGLPLPNISFYVPQVTPIKTVSDFIIGTISKVATSSLIF
FALAKLSSGLVNYVLLIVQFLTNVLAARREGILQETKNPVTDIMKDMERIIIPARFVARN
VRGFAKEKLIDQKIDS NIRHRRGGDIDIDYSGMQKSNPDDPQNDSPDNNGGGGGGGDGDN
AGGSGGSRGSGGGRRSGGGSGGSSGSDGGSSSGNDGDGGGSGGNSSARSASTSRPSSGG
YDEHREYDESEFHASVEMTEFKSSTPAEPDDSKAASVSDDAPENARSRPGSDGALDNAPN
DTPDDAPENSRAASAPEDAPENSTDSAPGDASENSPENPSGQVERRDSEALHSPEESKAP
PSARDDAERRDVNESIEMTELAKKRAPNDGSRGDGSRGDGSRGDGSGQQGGDNSNE

>gene_896|GeneMark.hmm|153_aa|-|37637|38098 >NVVL01000047.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MITIDHKTQAMASASKLKKGAKSDKNRKTAFAPSKQTHEASSNESFAGVADVGGMLFLQE
FDQYAQDKQNLEEFGNKALKTLKELQLEILSGRINGAQLHSLKKEMDSNKFIISTPELAI
LADEIKIRIEVEIAKIEVNRSADIASKNLRPQI

>gene_897|GeneMark.hmm|449_aa|+|38226|39575 >NVVL01000047.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MFQTLTQNLTKIFDKMKGTGALSEAQIDSAMRDIRVALLEADVALPVVREFIDAVKKQAK
GQKVVKSVSPGQMVVKIINDEMVRLLSPNESESELNLSDAPPVNILIVGLQSGSKTTASA
KLALKLKNQNKVLLVSLDTPAAQDQLEVLSRDIGADCLEIVKGQMPLEITKRAVKES
RLGGYDVVIYDSAGRLHIDEEMIEEVASVKKIINPTETLLVIDSMIGQDAVRVASAFEK
LKITGVILSRIDGDSRGAALSVRHVTGKPIKFLSTGEKPTDFEEDAKRITSRILGMGD
VVSLVEKAAGLVDQEDAEMAAKIKKGRFDLNDYISQIKMIKKMGGFGSMLSMIPGMSKF
SNKLGADGDGDKLLSYQEAIVSSMTKKEKRNPDLMNASRKKRVASGSGISVQQINTMLKQ
FKQISTMMKKASKMDPKSLMRGDMGKLF5

>gene_898|GeneMark.hmm|69_aa|+|39642|39851 >NVVL01000047.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MGKAKIASKNNPEGRGRAKEYFHNGKKIKPVKMISLSQSFFAAEYDDSGEMVLDAAGKVL
PWGKAKYLG

>gene_899|GeneMark.hmm|418_aa|+|40219|41475 >NVVL01000047.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
MIHHSEAFTIDYSNFSLNTALYPRLVAAVASIVPKILESIEDGTPAYKIFSIEHARQAE
SCAHYAETIKANFSDLIVIGMGGAVLNPRTAISLTFVPSSVKIHFLDNTDPFFLQKLLA
QIDLKNCVLAISNSGQTLETALTGVMINKFEQAGVRLSDRFFFITNKQSGRLRDVANK
IDATIIHTSNISGRYSTLTNVTSLIAQIAGVNMKEYLAGAEMVMKDFDKKENTPAALS
VSIMLNEPKSTLVNIGYLQQFDVLEWYSQIIAESLGKEGKGVTPIRGLGPNDQHSMLQL
YLDGWKDKIYSLFYVENWKNVQTHKACDLAALGGIAGRELQEINTANFSATRAALLTRKL
PVRTITLKDLSARSIGALVTHSMLEIVIWSRVMHINPFNQPGIELIKTESTKIIDSKK

>gene_900|GeneMark.hmm|40_aa|+|41866|41985 >NVVL01000047.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23569, whole genome shotgun sequence
LRDITKKIKFIQMF EKPLISFDYAIKFLKNKEGYEIKEG

>gene_901|GeneMark.hmm|46_aa|+|1|141 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
YLAMINIITIALPETGSFFKYIVHSFFMGFMNLDNFNYSYYASHIAS

>gene_902|GeneMark.hmm|251_aa|-|146|901 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MLEHFTLEFVHFMLVFARLGTAFRMFPGIGSPYLFERGLAVALSISFVMMPVLTYPYLP
PYTDNSALNLGYLVMELIGLVISIAANLYFQSLHFVGGQILSMQSGLSAAFFDPLQKTQ
VAIFSNFMLLIAIVFIFTTNTHYLFIEAVADSYIKFPVGELLDSDGVDVSKFVWLVVND5FI
LSFKLVSPFLVIGLAILTGSGLLARLMPNLQVFFVITPAQIIIMMGTMVLIHSIIKLV

GKIGASLSMSF

>gene_903|GeneMark.hmm|216_aa|+|1143|1793 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MDDLAAMMPQLYFIVQGIGVTLKYSMSAVCIGLIIGTLLAICKMSDSKSLRLFAHAYTSI
FRGTPLLIQLTIYFGLPGLLGKMSVFTAGTLAFSMNSGAYVSEIIRAGINSVDKQGTE
AAKALGIPPVLRMKDILPQAIRNILPALVNELINLVKESALISVIGGEDIMRRAQLISA
ETYSFFTPMLTAAATYYVLVLVISSFAMMLEKRLAL

>gene_904|GeneMark.hmm|240_aa|+|1790|2512 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MIVLENVTKKFNDQTALKDINLTFDKKEAVVVLGSSGSGKSTLIRCINNLETPTSGSVFI
NGTQLTSKTRGKLCFKIGMVFQQFNLFPHMSVLQNLTYGAINVLGNTQHIIEEKAYKLLK
KFGITEKANSSPLDLSGGQQRVAICRALMMDPETILFDEPTSALDPEIIKDIIGIINEL
KGQITMIIISHHIKFARVIADRIIFMDQGGKILADQPAKEFFTKPSSHRARLFLENVGDLM

>gene_905|GeneMark.hmm|128_aa|-|2592|2978 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MNRVILDASALLALINNEKGAEKVEPLIGRAVMSSVNVTEVAGKVVEILGNEEQCKLAIE
PFISSIIAFDKVQCYAASLKSQTKHKGLSLGDCACLAALHMGLPVYTADKVWAELNIP
NIEIHLIR

>gene_906|GeneMark.hmm|81_aa|-|2971|3216 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MFAKAKISKGGKISIPSICRKALNVSDGDELLFDISDNQVVISPVKFTLQKIRKLLKDRN
PSKTSLVDELLQERKQELKNE

>gene_907|GeneMark.hmm|135_aa|-|3343|3750 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKAFEKYKNAQAYTSNSSHQLIFIFDELLKLLFTAQKALKEEDYETKFKALAKAIEVFYI
LKSGVEIDNPDESTKAIDMFYGATIVRLENINMTISSPPEDLVLMMIDSIGEVQRQALAQSI
APEKEEKESYITSN

>gene_908|GeneMark.hmm|606_aa|-|3819|5639 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MDISKGVSITGMLGPVDEFVAKATSQQELVLEDFNDQVSVRHDKLGAISELQMLLTDLKA
KATRLSDPMETGFNHHKHCSTTINGESADKFLKNVRVDGTVSNGHVHVAVEQVASGASLTI
AFNAQHTGFTNDANPIGLDGDLTLTIGGNARIINVAADNLGIIVSNINLNFENNGDAFE
AFLINGNPGGVPSSFIEIRAKNTGFEQIGIAWADIGNPAMTMLEHAHLDGQDAIVYVEGV
RYDNASNKYDNAIAGLSFELAGAVNVAAAVPNLAYNGFDYSAICTEEDHDPVKKMIIIEFA
NSLDMLTYFVAKHGADSDVSTIDKYADPYADKSKDDQGGVLRGSMMLLVEATQIVERFTGL
QHNGNGITSIAQMGMGLKTTVQDGISFETLYFSDEDLFVKKFEDDFESVRRFFINHVQVT
PTPGNLSSLQYIPTDMPGEVITPSIIGRDLPVSIYDPAGAVTAFSVTADGQVVNGAITY
NASLNRYISIFAGTALKGMAFSVDPKAANNVVENFTINYTRGISNLVRDEARTMLSDDGS
GGSTIAEAGRIQDRIKSLETSRDKIQAKLEKLKGMQADYKRMILLETKSAIALSQADAL
LGLNDG

>gene_909|GeneMark.hmm|154_aa|-|5876|6340 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSLTHRKVCIDDLKIIVDLLSTDKLGKTREQISEELDGRYIDAFHKIDNDPNQYLMALCE
GKKIVGTSHCTLMPSLTFTGSTRMQIEAVRVCQSARGKNIGQQMIEFAIGWGKNHGATIF
QLSTNKERVDAIRFYEKLGFNATHEGMKLYLEQE

>gene_910|GeneMark.hmm|165_aa|-|6337|6834 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MYAGLKYQEFVRKMSNEIHTLARAVILDDEHILLCKTLDPVNFYFLPGGHVEHGESASQ
ALMRELKEETGKDCTVKRFLGCLSEYFEPGHNSICHNHEYNFIFEAESDQLKVREKISSP
EKHIELIWWAVSDLSEIDFRADPLKLLPEWLSRDAHNVFRSEMI

>gene_911|GeneMark.hmm|356_aa|-|6897|7967 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MQAVIIAGGKGSRLWPASYKNHPKPFVRMNDGLSLIQKTLRAGCVSLVRSIIIVTRHDY
VPRIKAEYEEIAHLMPKGVDLSFIEEPFGKNTAASIAAAALSLSAKNSEDEAMLVLPIDH
IADQEGFNAAVSKAAEIAKNGQENSAGKGLVTFGIKPTHAESGYGYIEFSGNEVLGFT
EKPSKETAEKYIKHGNFYWNSGMFCFTARTILQEMHDHCPVSLSTVRRALSTSKRNVNGD
ISLDVSSFSLVSEVSIDYALMEKSSNISVIPCDIGWRDVGWTFEWFHSHQTQADAKGNRLRG
DVITHNASNCYVDSNGITIGVVGLNDVAIIHTERGLLVINKNSSEDASAIYDKTET

>gene_912|GeneMark.hmm|358_aa|-|8370|9446 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKQRITKLGTLGTQYFRSFTGSNLRFKAAAGFSVTPYSGVNSRDSSNSINNWGHTTQWKEF
HTDSQILSGKTDPFNSQKTNSSSLATQQPAIDQTPKKPAADLSTVPDAQEQGRSNGGGGE
PYNWEPWLGLTALALGIFNVWQALKNRAESREYEEKLSKEKAREQLKSDLKELSKKCSNN
TIEDWPLSIENLLDFIKKNYSLDPSTLAKLLSDYDVDRLAYIIASYCNSGHPDRVEAREK
LEFARKLIASKCNCTLDEVKVPDLFRHHCFSELYIELTGMLSKTYIYPDNTESDIKHSIF
YVKKAYSQAQQHYKMTNEPKFWDKLLSEQNFQLLTIHGDQFVDNPTFLAGDDAVPNDS

>gene_913|GeneMark.hmm|159_aa|+|10089|10568 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MTKD TAKASENINVKLVEGLLSKTDPELFGKGGMFAQLKKQIVEKIPPSEMEHELGYSK
HSKISKLNRRNGSYEKTILDDEGYKLAAEIPRDLGAYEPKLPKGVRRFSGFDDKVI
SLYSRGMTMSEIQGHLEEIYSTEVSKELISTVTDSAIEE

>gene_914|GeneMark.hmm|109_aa|+|10599|10928 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
VYPILYLDCIHVKARDNHTIINKAVYLAIGVNMEGRKELGIWVGKNEGSKFWMQVVTTEL
KNRGVQKIYVASVDGLKGFPEAINSIFPDTIVQLCIVHMVRNCCEICVL

>gene_915|GeneMark.hmm|104_aa|-|11009|11323 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
LFKIAANKFELVQCHGPISDRHCPFFCSVSKCKKYYLFDRVIVWKYPLVFDDFSDLTIDR
FNCIRRINLPDFSRKCKKWDYTSPIPFYPARDYVWFVFAIPLIK

>gene_916|GeneMark.hmm|154_aa|-|11403|11867 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MANHSATKKAIRKTVSKTEINKTRKSRIKTYIKRVITAVEAGSSEESNKALVEAQSEIMR
GVANNLMKKNTAARKVSRLSKKVKAISTGAAVGTAKTTEQKATKPKTVSPEKATAEAGAT
GTKAKPAAVKKPATTKAKPAVKKEAEKKSDTASK

>gene_917|GeneMark.hmm|137_aa|-|11880|12293 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MRHKIKGKKNLRTSSHKAMFANMATSVMNEQIKTTVPKAKALRPYIEALVTKARAATL
SARRDIISRIKDKKAAEKLMVLAERYKERPGGYTRIIKAGFRYGDKAPIAYIEFVDRDL
SAKGCMTPKVEETENQE

>gene_918|GeneMark.hmm|339_aa|-|12449|13468 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MLSLNKNWSSLIKPSKISYDGKEEKS NVANIIIEPLERGFGLTIGNALRRILLSSLQGAA
ITAVKINGAVHEFSAKSGVKEDIVDVVNLNKKISIKQHSTDRKTLRINVKGPCVVTAGMI
ETGTDVEVLNPNQKICTLSKDAELEMELYTEIGRGIYIPAGSAKDHFPLGVITIDALFSP
VKRVAYKVEDTRVGQVTDYDKLLMSIETDGTISPMAVALAARIMQDQLQLFITFEETEE
EKLESKEELEYNPILLKKVDELELSVRSRNCLQNDNIVYIGDLVNKTEAEMLRQTQNFGRK
SLNEIKDVLQKFNLKFGMEVSDWPPENIEEIAKKYEEPY

>gene_919|GeneMark.hmm|127_aa|-|13487|13870 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MTPINKVRKKKNITLGIVHIKATFNNTIVTVTDVQGNVIAISTAGAHGFKGAKKATPYA
AQITVDKVVSEMAKEHGLKTVSIKVKGAGSQREAAMRAVFSQNFVVISITDVSGVAHNGVR
APKRRRV

>gene_920|GeneMark.hmm|122_aa|-|13887|14255 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
VARIAGVNIPPNKRLVISLTYIHGIGLTSSQKICRSTKISESRRVKDLDDKELVALRAEI
DQNFQVEGDRRREVSLNIKKKDIRTYEGLRHRRPLPVRGQNTHSNARTRKKGKAVAIAIGK
KK

>gene_921|GeneMark.hmm|215_aa|-|14316|14963 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MTKKIIVLLGLPGSGKGTQGALLSEELVIPHISTGDVFRKMVLEDSKTLAACMKEGR
LVPTGLVNKTIRKYILSDECRDGCILDGYPRTLDQAEYFIENIDATVNVIFFDLESDVVV
KRILGRISCSSCGRIYNEHFDKPKKKGVCDNCGSEEFARSDDTESAILSRIAIEYEKETL
PMVEYYQKKGRFFTVNAGKSKQKVVEEIASIVKKI

>gene_922|GeneMark.hmm|428_aa|-|14964|16250 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MQKSKGELSSRIFLTVSLLVCRIGSFIPIPGIDSIALASLAERSQGGILGMFNMLSGGS
LERSIFALAIMPYITASIVIQLMTIAYKPLENLKKGDEVGRRKINQLSRYLTVVFAFQ
AYGIAIGLGATVTPYGPVVIDPFFFKVSAVTTLVVGTMFLMWLGEQISARGIGNGTSLI
IFIGIVSGLPSAVIGMFELSRKGAMSPVAVMAICAGVLAMITVIIYFERAQRKVLIQPK
RQVGNKIYGGDATHMPLKLNKTSVGPVPIFASSVLLFPATISEFSSKDSEIMGMVSRYLGH

GKPLFIFLYIALIMFFSFFYTAVVFNSEETAENLRKNGAYVPGRRPGKNTAEYFDYLLTR
LTVLGSLSLVVVCIVPELLMNKYSVAFALGGTSFLIVVNVVLDTFQAQIQTHLFSARYEGL
VKKMKLRN

>gene_923|GeneMark.hmm|149_aa|-|16264|16713 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MRLNTLFNVESKKPRKRVRGIGSGTGKTCGRGVKQKSRSGVAIKTEGGQMPLIKRMP
KRGFSCSKAVNYTAISIADIEVMIEEKRIDAKGSVNKELLVSIGYIKSDKVPVKLLGGLE
KASHKLTIELDACSASAKAVVEAAGGKVL

>gene_924|GeneMark.hmm|69_aa|-|16730|16939 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MTEKKIKSKSLIKVTQIGSPIGRSSDQRKTLIGLGLNKLKRSRLLEDTPSVRGMMAEKV
GHLLSVETV

>gene_925|GeneMark.hmm|172_aa|-|16974|17492 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSKYTRSNDIIEDLVHVNRTKVVKGGRNFSFAAIVIVGDEKKGKVGNGKAKEVTEAR
AKANKDARKNMISVPLYKGRTHHDVIGVSGAAKVVLRRAPGTGVIAGGPLRSIFGRLG
LEDIVAKSLGSSNPQAMISATFNALKSLNSPKSIKRRGKNIAELSVNAASA

>gene_926|GeneMark.hmm|118_aa|-|17505|17861 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSAKNHSFKRRKERVRVKLKVSDRNRLSVFKSGRHIYAQIIDDSTSRTLVSASTLDKEI
RVTAKSNCNVEFAVKVGKLLADRAAEKSINLVAFDKGGHKYHGVVKALADEARKKLQF

>gene_927|GeneMark.hmm|177_aa|-|17868|18401 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSRVGKLPVSIPEGVKVDIKGLNIQIQQAGALERTFAGQISIEQKDGVVIVKPLDDTTP
ARAMWGTARSIINGMMKGVTVGFQEELEVIGVGYRAAVKGYLNLTGKSHNTKIEIPDF
IKVSTPKQTIIMLESCDKEKLGQYVAVVRSQRPPPEPYKGGKIRRKGEYVQRKEGKKG

>gene_928|GeneMark.hmm|130_aa|-|18414|18806 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSMSDNIADMLTRIRNGQKSKLLNVGLPLSNLKCAVLDVLEKEGYISGYTKDAESKTIDI
SLKYSRVGEGAICEIHRVSKPGKRMYSIGDLPGYFNNMGIHILSTSHGVMSDREAKKLN
VGGEVICKVF

>gene_929|GeneMark.hmm|101_aa|-|18834|19139 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MARTGSIETNNKRRLAGSFKAKRDALSAAKIKQKDLPLEERFELVMKLAKLPRNSAQIRV
RNRCALDGRPRGFCRKMGISRNKRELAAGLLPGIVKASW

>gene_930|GeneMark.hmm|180_aa|-|19166|19708 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MLLRFKELYSKNIVKDLQEKFKYPNIHQMPKLTIVVNMGVSDAVSDSKVINHAISDMTA
ITGQKPETYAKQSIATFKLREGMKIGCKVTLRRARMFEFLERLVLIAPRVKEFKGLSV

KSFDGRGNITFGIKEQIVFPEINYDKIDKIRGMDITIVTTAKTDEEAKALLSGFQIPFYN

>gene_931|GeneMark.hmm|109_aa|-|19708|20037 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MHKLIKKGDTVQVTTGKNKGKVGDVTKIFPSDNKAIVAGVNLVKKHTKPSQTSEGGIIQ
KELPIHISNLSHIDPKTKEITKIGYKTLSDGKKVRFKKSSEIISKEGK

>gene_932|GeneMark.hmm|122_aa|-|20039|20407 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MIQMQSILTVADNSGAKKVMCIKVLGGSGHMVAGCSDVIVVSIKTAIPGGKVKKGEVHRA
LIVRTKKGVRRPDGSLIQFDSNSVVLVKNQNEPIGSRVFGAVPRELRGKGFMKIISLAE
VI

>gene_933|GeneMark.hmm|76_aa|-|20480|20710 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MPKRILQGTVVSAKSEKTVSVEVERRFRHPLYKKTVRKSTKYAVHDENSRCSEGDKVKIQ
ECRPLSKTKSWVIVEE

>gene_934|GeneMark.hmm|74_aa|-|20703|20927 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSKSEFTSKVLSQVTLEKLVEKLVFLKKELFNLRFQKTLGELTNTSRFLKVKKDIARVGT
ELTRRRKTGAKADA

>gene_935|GeneMark.hmm|136_aa|-|20920|21330 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MLAPKKQKFRKAHKGRVASKSKAGTMLNFGSFLKSLDGLRVATARQIEARRAAVRHMKR
QGRFFIRIFPDLVSKKPNEVRMGKKGGAPEYFAVRVSPGRIMFEIEGVDEVVARQALDL
ASAKLPVRTKMVQRYE

>gene_936|GeneMark.hmm|217_aa|-|21345|21998 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MGQKVNPHGFRVGPFLFKDWDSVIFYAERKDYSEKLIQDLKIRALIMKRYKIANVSSVVIK
RHSNNVVINISAKKPGIIIGKSGSDIEQLKKDIQKISSTEVFINIHEIKKSGIDAMVIAQ
TIAQQLEKRSSFRCMKTAIQNCFKQGGKGIKVAACSGRLGGAEIARTEWYREGRVPLHTL
RANIDYGTTEEANTTYGVIGIKVWVYKGDFAQKKDKVN

>gene_937|GeneMark.hmm|116_aa|-|22000|22350 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSDLLAKASIRRLRTSPQKLNLAAMIRNMKASEALAQAFSPKRIAVDVRKCLQSAVAN
AENNIGLDIDNLVVTSATVGRSLVMKRIRARARGRSARIMKPFNSLYITVSEREES

>gene_938|GeneMark.hmm|92_aa|-|22367|22645 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MTRSVWKGPFVDGYLLKKVQKAMDSEGRKEIITWSRRSTILPMFVGYTFVHNGNKFIPV
AVSEEMVGHKLGAFAPTRTFYGHGADKKAKRK

>gene_939|GeneMark.hmm|274_aa|-|22660|23484 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MALKKYNPTTSPQRGLVRVDRSELWKGAPHKPLTKGLSKSGGRNNLGRITSRHRGGGHKR
LYRMVDFKRCKLDSVATVERIEYDPNRTAYIAFIKYEEDTVSYILAPAKLVAGDKIISSA
DADIKIGNCLPLANIPVGTIVHNVEMKPGKGGQIARSAGTSVSIVGKDSGYAQIKLASSE
VRLVPLECRATIGTLSNAEKKNTIVGKAGRSRWMGKRPHVRGVAMNPVDHPHGGGEGKTS
GGRHPVTPWGKPTKGKKTRKNKLTSKFILKRRTK

>gene_940|GeneMark.hmm|98_aa|-|23486|23782 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKADKKYDLIRRIITEKSTIAGEQKGYVFEIAANADKPSVKRSIEAIFEVKKVSVNILN
QNGKVKRFKGTMGRRSDVKKAVTLEKDHTIDLAGGMK

>gene_941|GeneMark.hmm|206_aa|-|23782|24402 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKAELVSFEKKVVGEVSLDSSIFGLEARVDIVKRVIDWQRAKARAGTHSVKTVGEVSGTT
RKPFKQKGTGNARQGNARGVQRRGGGIAHGPOVRSHTKLQKKVRRLGMRHALSIKFSEG
AVHFVDSVDMTKPKTSELVKTLSNFGKGRFFVIDGADLNANLKSVASVENASAVPAIGA
NVYDIIRSDHILISKNALSLLEERLK

>gene_942|GeneMark.hmm|214_aa|-|24436|25080 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MRTGLITKKLGMSSMFTDQGERITLTLFKLEDCLVVGQKTMDRDGYNALVLGAILRKVSR
VSKPMKAIFANAKIEPRAKLKEFRVSDSNMLAIGSELKPSHYEIGQYVDVSSRSIGKGF
GVMKRHNFAGLEATHGVSISHRSHGSTGCCQDPGKVFKGKMMAGHMGDKNITIQNLQVVE
IDDVNGVIVVSGNVPGSKGGYVFIKDAVKKSVAA

>gene_943|GeneMark.hmm|105_aa|-|25082|25399 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MNNQKIKIKLKSFDHRSLEHATSEIVSAVKRTGADISGPIPLPRRIERTVIRGPHVDKK
SREQFEIRTQKRLVIINYPTPQTVEALRKIDLPAGVDVEIKLVGA

>gene_944|GeneMark.hmm|394_aa|-|25511|26695 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MAKEKFDRSKPHVNIPTIGHVDHGKTSLTAAITKVLASKGKINKQVKYDEIDGAPEERE
RGITISTAHVEYETEGRHVYAHVDCPGHADYVKNMITGAAQMDGAILVVSAAADGPMPTRE
HILLAKQVGHMVFVFLNKVDQVDDEELLELVEMEVRELLSAYKFPGDDIPIIRGSALRV
LEDKETECIDKLMEAVDSYIPTPKRETDKPFLMPIEDVFSISGRGTVVGTGRIEQGIVNIN
DELEIVGIKDTEKTTCTGVEMFRKLLDSGEAGDNVGVLLRGTREDVVRGQVLAKPGSIT
PHTEFEAEIYVLTKDEGGRHTPFFKNYRPQFYFRRTDVTGEVELPAGKEMIMPGDNTKIV
VKMISPVAMEAGLRFAIREGGRTVGAGVVSKVIK

>gene_945|GeneMark.hmm|252_aa|+|27190|27948 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKNNKKGIGNSANNRKASSLNKGQYYMYGKHGVLAALKNENRTVRSVYCLEKQARELKNEL
HGTHVEIVQNNFITEKIGKDQAHQGIALLVSSIFKNNIEELTFPGKDRIVILDQLSDPQ
NIGAIIRSAAAFGINKLILPSDNAPEESASIAKAACGCLELMQIAKVTNIKNSIDKLLKMM

GFWIAGLDGQGKENMNDVMEIEKLAIIIGSEGKGMRRRLTSETCDFLVKIPSEQVESLNA
SNAASIIFYLLR

>gene_946|GeneMark.hmm|237_aa|+|28108|28821 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MIGNLLNKFKKQPELGALDAQNNQAPAGNAKNWYDERYDTIIVQRNIFLLLLVILLVLSI
ISIGVVAYVINTKRFDPFVIQIDDSTGIARIVNPLSSSVLSGNEALAQYFIKKYIARET
YNPVDFTLAKKTVRLLSENSVYWGYYGILRNNDINPSIQYGQKNTTYLLVKSWSKLSGE
KYIVRFSINETSARKSFSKIAVDFVYTPMELSDDDRDRVNPVGFQVTGYRVDSS

>gene_947|GeneMark.hmm|137_aa|+|28808|29221 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MIVVRIILASMLILAASGLAYSNDVPLTTDSRIKTYLSPNEVYLLVHYGFQSHIEFG
KNEEITITVGDYAWKITPLNNRFLIKPMERNIRTNMTIITNRKIYQFDIVAKELESGS
EKDLVYVVRFQYPPKSR

>gene_948|GeneMark.hmm|473_aa|+|29225|30646 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MSKETNPASSAPPVKTSKVEQDLSQVAINPKQNILILVGIVAVFIYLSFNLFAGDDGNE
QKPEPTPIKAITRPVQLLANDDAPPIITLPEPPKLEEPTPPPPPPPEPEALLPLPEL
PSVTTPQNAPPLPFLQPKTDESARRADEKRKSGIILMGGAPPAKTEDQLEESNFKYRGN
MNLVLGRGKILSAIETAVNTDFGGEIRALISRVDYSEWGNLILPKGSRIFGSYATGIN
GAYGRISITWTRVDLATGYTLNLAGTGIDALGRTGNQGRVDNFKERLSNAVLKSILDIS
LAKALDSIVKPKINSQTAARSVGATNLTSIANAIFTQPGLTAKEKRAKICQDVLTAIAN
KTSNSFLKLSMTCNTLNTDPVASEPNKLLSLMGIINQLSDELIKDVTADSEKTQVQEASE
KSFEAISDSIKSMAEEQDFHPTITIPQGTAVKIYVKNKDYKFPKKAVIKSRFLK

>gene_949|GeneMark.hmm|332_aa|+|30643|31641 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MNYAALETYLLPFKNIFAEEGVNELMINKPGEVWVEKAGDQRLEIPEIDIDHMLGLGRL
VAQSTAQTISEETPLLSATLPNGYRIQIVFPPAVEPSLVAFAIRKGSTVHFSLDKYAEMG
AFDNTSTKEMTDENNAILS NHLKTGHFKEFIRHAVLCKKNLIISGGTSTGKTTFTNAALG
EIPSHERLITVEDAREVMLPNHPNKVHLLGSKGGQGRAKVTTQDLIEACLRLRPDRIIVG
ELRGAEAFSFLRAINTGHPGSISTLHADTPAMALEQLKLMVMQAGLGLPPEEVKKYIMAV
VDIVVQLKRGAGGKRYVSEIFFKGMEGGSDGI

>gene_950|GeneMark.hmm|586_aa|+|31631|33391 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MEFSKLLRMARTLVGHVLIHPFVLFCTFWVSGAIIAMFTNEYELLSSEIFGGIIVLYKWG
IWLENSWGLSFTSYDYIKIKLAAAITVPSFLVLVYIKNFTRIRNLEFFLPKEAVYGS
AWASPTIEERASLRAKHGMMLGKDAEGYFVADGFQHALLFAPTGSKGKGVGFVIPNLLFWD
HSVIVHDIKLENHQITSGWRKKKGQEVFVWEPSPDNGITHCYNPIDWVSSKPGQMVDDVQ
KISNLIMPEKDFWNNEARSLFLGVVLYLLADDTKVKSFGEVVRTMRSDDVVYNLAVLDT
LGDAIHPVAYMNI AAF LQKADKERSGVVSTMNSSELWANPLIDTATASDFSIMDIKKK
RTTIYVGLTPDNIHRLQKLMQVFYQQATEFLSRKMPDVKEEPYGV MFLMDEFPTLGKMEQ
FKAGIAFFRGYRVRLFI IQDTQQLKGIYEDAGMNSFLSNSTYRITFAANNYETANLISQ
LCGNKTVEQTSHNKPLFFDLNISTRQNVSKVQRALLLPQEVILPRDDQIVLIESFPPI

RSKKIKYYEDKFFTKRVLPTFVPTQEAFVINNGTNEEEKNKKETE

>gene_951|GeneMark.hmm|467_aa|+|33460|34863 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKKKKMRSATIDIGYNAIRATVYEDNTLGAPEIFSSKFKSDLIGLLANQSIDMKHQTYLS
IQYLLHVFKRLNVTDIKCVATAVLRDHEKAEQFIQHIRDKYNFDIEVISGEKEANLTAFG
LVKGIRNCKGIAADLGGGSLELAEVGDGKISKLCSLALGTKILSMRNLADENEIIDIKE
QYSSSEQESLYLIGGSLRFIGKSYMNSAFHYVKNLHNFEIEAGSFFEYLNNAVQTS DGEIS
KLSSRRINNAVLILKALIHLPKPKIIVSTYGLKEGVRIDSMDEEEKQKDLILEKV KYL
CTYD TDATDFDSYKII SPLFSAGVDLNEILKLAIMLLSMESQFDSTLPPTALSDSILSS
EIPFAYKMRVMLAMIIAYSTNHKPSVNLIKFSKKTLTQEEHNNAQIIGYFLYITKEIDGP
IFMTPSFDIKSCNYFLEIDTHEILPRAIFEKVCMLKLSIAFARRTGY

>gene_952|GeneMark.hmm|176_aa|+|34963|35493 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MLKNTENSYGSITKIFHWVVALAIISLIAVGFTMHYMEPSPEKFEYGMHKASGVLV FML
VALRISWRFINQTVLPKDLPNMLKLGAKAGHFMLYIFMLVMPISGITMSIFAGYDIPVF
GLFTIPAMEKNLQIAGIAHTLHEIAAWGFAIMIVLHILAALYHHFIRRDDTLK KMV

>gene_953|GeneMark.hmm|204_aa|+|35540|36154 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MNFTINDIPESIAASMRSKAVWTPECPVPIEHLKLEISHYDFAGDIKEGQMIVLDKISE
SVIKIFTELFARSLQVHSIKLMDEFNGDDNLSMAANNSSSFNFRKIEGSTLLSMHSYGLA
IDINPVQNP FIMIDEDTHNVRVLPKSSMFLNRSNQRAGMAEPIIEIFKKHGLSVWGGNW
NNPIDYHHFQVPREDVAELMIGIS

>gene_954|GeneMark.hmm|375_aa|-|36200|37327 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKRHVFLYGF SIFSMFFGSGNLVFPMLVGVNLDNWLAGFLGFLLTG IILPFLGLFVIKL
RKGSYVDFFAEAGVVAKYAIPFTLSLLGGFGVIPRCITVAHGGLFLEFLADLSLVLFSAI
FCIACFFICLNDKWMFTVLGKFLTPILLFFLILITVGIYESQGLEGVGASFGDNFIDGF
FRGYATMDLFAAFFSSLIFKQIEALVDETEGQSLIKAALAPSIFGGCLLSLVYLG FVYL
GSHYAFLATDLP GELILPAIAKHLLGTNGALVIAV III FSCLT TAV ALNSIYARYLCSFE
IIGEKRFPI LLFITTMIAFFISLDFDGAAMLAPLLTISYPGLIALTILSICTKDFKRL
KMVSFYGITILMLLL

>gene_955|GeneMark.hmm|340_aa|-|37679|38701 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MCLAVIVMIFIGGLTRLTESGLSITEWNPVSGALPPQNGAEWGQEF EKYSPEYLQHN M
GMSISEFKSIYMLEFVHRLAGRFTGLLYLLPLMIFWLMGSINKRDSGT YLFILFLLALQG
AMGWYMVKSGLVADPCVCHYRLAAHMLAVFMYILLFWQLMRNSFDILLIPGLAPGGVPG
EALGVVSLCRQKFWCTLSIFLLLIQIMLGAFVAGLDAGLVYNSFPLMGEGVIPHEVSLSS
VNLASFSEPVFIQFIHRMMAYMLFFVVCIFCFVGARLRHPKFTRSIVCVFAALS LQMIAG
VVTLLYSVIPVALLHQLGAIILLSFLLWAYFLLKSTESE

>gene_956|GeneMark.hmm|344_aa|-|38800|39834 >NVVL01000048.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence

LNLIEEIHSYLSREISAMNAVIVENLAVEEELITLISNHLSKAGGKMRPILTILSAKML
GDAGEPGSSGEPDDAGEVLGSESSAIKLAAVEFIHMATLLHDDVVDGSKMRRFLPSANV
VWGSRASILVGDFLFSQSFKLIVSTGSPALRALSSASAVIAEGEVSQLAHLEQKSMVSE
AEYLKIIGAKTAELFGASCEVGAIAGKESSAKTMRDFGICLGKIFQITDDMLDYFSDSA
KVGKNVGDFFEGKVTLPLILLSKKISADDNLSLQKMLQAESRTSEDFLRVKTLMQENDI
NTEITNYLAELEQTALVLLRSLSIQNQYCKFLENLVEFAINRTY

>gene_957|GeneMark.hmm|585_aa|-|39870|41627 >NVVL01000048.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23573, whole genome shotgun sequence
MKLIRFIVLVLIIAAAIGAGGYVTHKVADELNEQYAGQKIAVTENGKASHFITFKEVV
PSGFPLKISWDVRGVIEETESSKTSFTSPVQFGYDLLLQKVFVSYAGDIMSSYKPAKFKF
GAKLKIEDYMLSVDLPVSMGLINTLRDLEDPVQIINHVGDIINLSSDRVEIFDLIDNQKFY
DKKYENMKLSFVPQKTYVSLKDLMTNIPQRYVVRYAVETNEIKVPTRKLPDSLFFVFSAV
PSGMDMRANAVIKTAGNNSREITKNLEVKGDITCSGMFASVKNFKLDYKAGSDKLNRDYD
LAIDSKLHLKKGAFDHLFEQYKLISSKVALSPSAKMIDREINYIIANKQAFKFQDLENSD
YDFNLKMSNYHDQDKTYMKINNLDISSEGAGINLKHEIETNSKGFKTYLAKGDLLIRNYS
AVVEFTSGYIYRFGKFRFLNDAARSLYVDVNKTFKLSISDHPKSVSNDLDFNYEVNSRNL
KKTGLSVTVDKISELYTLMYKLLFDNVGSGGDVLERMQKILPGIDGKEPLLQKILPHI
SGGKSIKSIKKEIDKVLPKNAQDLLKKIIPKDKLKKGFLKDLFK

>gene_958|GeneMark.hmm|87_aa|+|257|520 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MFIHAGENWNTWQEEEDKLHACGLATKGMGEAIALFHTYEKEVRQLCVGCGYSGRRVDILV
DALPTVVWICQPCLTLHERRVHTVDIR

>gene_959|GeneMark.hmm|49_aa|-|618|767 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSKGKKDIVICGKKNYGDVIIGCNGTIMGRRRRKSKPFTKAGKCKIVVG

>gene_960|GeneMark.hmm|155_aa|-|811|1278 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPVYIRVLYDAIPHQTRHNLKVVIMSKHGTILKKGEKESRTCMVVDNVVTLHHVTRHGQD
VDVVMDWGFDFTDVPTSCLMELASRSLVIDCRNAWKKQSEPIATGEEQTSQVFLVSDLLT
KQKRGKTVSEKVGALVEGMSPEDIAALLKQVTAAE

>gene_961|GeneMark.hmm|66_aa|-|1288|1488 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSKSELLKALATYPDDAQIVVSFDTRTIAKITHGMDYVTFGIDCVEDGWKPSNVADISIG
NDLIMG

>gene_962|GeneMark.hmm|52_aa|+|1978|2136 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MASTEKHPRTPGDARKMLAQRKKARGMISKDQKLRSDMLRELLMLEKKGEAK

>gene_963|GeneMark.hmm|38_aa|+|2138|2254 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence

MKRMRAFTMTVMKRLKEYKDKVIVRKAKEDKKNATGE

>gene_964|GeneMark.hmm|57_aa|+|2238|2411 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPQVNEQLDKLWSNDIPEDTNINAEGLKLGVLKAEVADGVNAGVHQVDNKGASCLK

>gene_965|GeneMark.hmm|89_aa|+|2399|2668 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPEVTLRGREKSGGGQAGEVFVQGGKILSAIWTGGGTGSAPDPEDYELADIGADLLGIAT
GVTYHIVGAVGSKSWVATGGTVQNLYGGA

>gene_966|GeneMark.hmm|92_aa|+|2668|2946 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MHPIRAVRNYLDGRKSGKPCRINAKDYPRSDYSSYWVYFINSETFQWRVDFIDYSTGDTV
RLFGKAAKNANKARILAQKCVLKNIEQYRRVS

>gene_967|GeneMark.hmm|132_aa|+|2946|3344 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSLGFITALRNNMLDEITALIDAGADGLVRIYDGTQPATGGAVTLLAEGAFSTNSAPAA
SGGVLTHSAIGDEASAPNGGTPTWYRIVDSTAAFVMDGTAGTSGTDMILDAATITAGQTV
SFNSSTITAGNV

>gene_968|GeneMark.hmm|142_aa|+|3344|3772 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
VSKLSDEITNDPLGRGYAGMDAEQVAFSLTEVKDRPVDNDESIDNIKMYLLRKRKYIVIK
DSPELAAREFMVLLTEFEQLLFDNPGKRKMFKDILSELVDAGLLTSPMRTALLGFVSFTG
TRSQELGLGRVRAGDVKESRNT

>gene_969|GeneMark.hmm|156_aa|+|3772|4242 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAIGTDATIIVLGTDDVADDTSTSAIVDGVMVAADITAWTNDDDAPFANFILNWQSAAT
TLTGNIFLHVRPINIDGANDSPIPTTADPIGRAGVFEIDGAKAINTDHPYLASIDLRPFT
MKTSQEFEFYLFNNTGETIAANWDLDDVPLSFNGAA

>gene_970|GeneMark.hmm|266_aa|+|4242|5042 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPYALPDSRIENASLKSVDTPVGRYEVDKRHWIAHKMTGFFLPGSLIQGVNGFGCENLM
KGYRDLTFTTASSADPVRVMSDKGRVVDLNDQFLASPEVDTPFISADGVITIAALYRLDT
HQSSGGSPICRAVTSSSSSTYYATKDYSNRSQFAARIGGSNRTIVYNTGITLGQWVFRIG
LYDKASGRMELWDRELGLIANNYSYAGDLSTATGSERNFRIACGKQDDANRGFDGVVAMAA
VWNGIGIDATTIEAFFNDYKQVLIPA

>gene_971|GeneMark.hmm|228_aa|+|5039|5725 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSLSLIRRKIGAGGGADVTDIVVTVDFFTGSISVAVKVGATVSPFTLEDFTAGISVGVVPV
QITIASTLDDATGSISAGVLAVATLNATVDDFIGAISASARFNANIASLDDFIGAISAA
AKVQVTLSPFLDDITGSISASVPVESDFASTLDDFTAVIDVTAATNRTADIVATMDEMGTG

SISASVLAQASMSTTLDDMGAVMNVVTGNTATSKMSPVMRMFIASGRM

>gene_972|GeneMark.hmm|132_aa|+|5747|6145 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKRLWLASLLLMTFNVYAQNFTLTWVNATEREDGSELLQSDIAHHKLRDSETGTIIIDNI
EGTLTSYIYNFPTGVYIASMTTVDSGREGSAYSPFLNFESVTDSETLPVIVEPPTSPQQV
IITITVDVETTP

>gene_973|GeneMark.hmm|165_aa|+|6155|6652 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MNILQEHMLMKEDSPVYTSAQYEEEEKASGDRKDDGSRKLLKLTTPRHEEMIAMHLDGMRN
KDIASAYQITDSTISIFLKDPLVLAVISEARVQNEARFASLYGKVVVDIEDSVNGAESID
IRLKGASLYLKEVGKPKVGERKTAEDVVQQIINMQINGDIVVKGGA

>gene_974|GeneMark.hmm|141_aa|+|6652|7077 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MIRLEKNFILSELVHPALYKQFKGASYNMLNIRLSPTLQSIIRDVFGQMAINGFFKGRFLK
DSGLRRLPHGKVGAKRSGHKFGYTADAKFYDTTPIEVQRHILEHQEDFPYITRMEDANITK
TWLHIEVGTNNRVGAIYVFKP

>gene_975|GeneMark.hmm|104_aa|+|7061|7375 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MCSSHNWRRLLLESYLPEIIIAALFIIGQLFILANRVKDLWDWHNINDEEGVKIWIYVRKS
LEDAVKDMAASTNKIATVLDLDRMAERDILILRVLEKLENNANRSR

>gene_976|GeneMark.hmm|56_aa|+|7392|7562 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MFKSMLIKWVLPVVDLLIEALVSLSKSSNTVDDAMAAMFVANKETIIIEIKRNL

>gene_977|GeneMark.hmm|522_aa|+|7562|9130 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MATRERLVIENMLMIADKDGNDVPFTLNSAQVKVDSRLTGRDIIPKARQEGVTSYFLARN
FIRCLSKRNTAVIIAHEEDATKRMLRKVHYMIENIRGPKPKVIKNASANEIVFSKTNVSF
YIGTAGSRQFGRGDTITDLHCSEVAFWKDPKSLGGLFQAVPRSGNISIESTGNGTGNWF
HRSTMRAAAGSSRYRMHFLPWQDFKEYTVPLNDLEKSRILNNLSEEFEEVCMARGFTAG
QIAFRREKLEELDYLQLFKQYEPETLDECFQATGFSIFSIVNYEATDKWCNAGNGTHVL
EGHPKAGHQYSIGADVGAGVGKDYSVAEVDLTDKEQVGEYRNNRIDPENFGFKIVSLGS
EFNDAFITCENNNHGILTVKVLKEKYPNHLQYSQVRLRRAANEIDRITDYGFRTTVKSKP
FAIGELRSSLAKEWLIHSPILKDELDTFIENDCGQLGAETGCHDDTVMASAMVAIGEPKA
IIMTMPRAILVHDTPEPFLIENIINECVSKGSCNHAITVQV

>gene_978|GeneMark.hmm|416_aa|+|9137|10387 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MRILIMSKSGDALGIAHRMVLEGNQVKMFIEDTRYADAGKGLVERVAAWRPHVLKSDLVM
CDMVGFGRYEETLEKFGKPVLMCNKFADMAELDRGKGMELFDKFGIETPETFIFNTPKEA
LDLLAVWEDPGFVIKPFGNIDTGKTYVIENQRDYEWALSTYKDNQKLLVQRTVEGIEIST
EGWYNGREWIKPFNHTFEEKRFMSGGVGRNTGCMGNVVIPASSDSKLVQETIMLIEPWLK

KINYRGCVDINTIVNATNAYALEFTIRIGYDAIEALAEGLMEPLGDFLFEVALGIKKSME
LKPGVFMAVRVSVPPWPMNEPGKDDAGRPIHGINEQALKHLFLTDVKMENGEYVYAAGDG
VVKVTAQGSNVKEASNRINRSLEKVTVHDMQYRDDIGSRVKGDISQLKAWGWLNE

>gene_979|GeneMark.hmm|567_aa|+|10380|12083 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSNGYNSNGSVDITWWLDQIQEGEKFRKKMAHEDMWETWRKYRGEWNNVQPSNIYFKM
LRTTVPRIYFRDPVVSITPAKPGIENMLFAKILERIDNKLLRKMKIKRQMKRIVHDTFMF
GTGFGKLGYGAEFSPDFNDAGEAPTGSVKRPNKVEYNSNIQPNQPWYLRTGPGSILPS
GLEEFDEARVWVHKIMRPRSDVLDDARLKIKDKSSRNRSFLMTSITVMGVQQSIDMVT
LFEVRDKKTGSVFIISPDFSEEVLLKADEFQVHGSVPIYSVNFNPDDMSTWGV PDSQIL
DPIQRELNENTQIMWHRMSLRKIFTRKNLMSESEKSRMVSEEIQAVIEVDGDPRTDIL
FKDGNIPDDLFAQAQDATRTDGRESLGF SRNQFGEYNPGSSDTTAREATIVNNSSEIRID
ERRDTMADMLTDVVNDVHHIIFNKWGTDEVIDIIGPAGVTMWVSFKGEMLRGQYNNVND
PDTAINQSRQQRQNTAIQVYNLLKQDPMVDQFQLRSYLMTEMAGTQFDNMLKLPQEQLNG
TQNNPLSLEEAGQQFRGPVQVQATGGNQ

>gene_980|GeneMark.hmm|85_aa|+|12083|12340 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPLYDYK CERCHTTIEVFHKIKENPPLCDGSKLVKLIQPARVRMFRAGIYEHIAHNP IQ
IDSMKQLKKECKKHGVT SAYAEDIC

>gene_981|GeneMark.hmm|136_aa|+|12375|12785 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKDDIRKITITITDLDFTNPKVEVEGEFNGAQSRRALAAGGKYIRVRATRAHYERQY AEE
AAAQAKEDAKTVAKQKAKEAADILTEERLANEIEEQKADTIIDSSDGVGWEDTDEEDDDH
LLNTHD TDNGVLNEDK

>gene_982|GeneMark.hmm|221_aa|+|12786|13451 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAEEIKNEDVFKEFTNKMVGAIDALGERIGTIETTVGAQSTSLQAIQDNAVAPAPIIKDE
ETVSLAEMDLESMSRGRDFARAITAAVSSMREEFKPINEQVGT LQNSNETQQLRTEFNDV
ANKHTDFGSYKDIMLGMVETHSHLSVQEMYTI AKANNPDIATQAASAEAEANPPANKGDA
FGGLTPTSGSTIQNKGEANTTDAAEEAWGETMTDTPESAVG

>gene_983|GeneMark.hmm|324_aa|+|13481|14455 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPASLTEQLDNLYTTT WQNMKSTVADSIFDSTPFWFWLKS KNKLRQERGGRFISEPLQYD
RNDNVQWIGKGGTVPLNDFEFLTIAKYDWRYLTASIVRFGVDDQ QNRGKNEIINLMKAKM
ENSKNALVSELETRLFGASGAGDSAVDGLQLLVADDPTASATIGGIDQSLASSAWWRNKS
TNGSFATNGTNNMRTMLNNSVSNLQSDTTDII VAGQTPYELYENEIFDTHYRVTNNKLA
DAGFENQVYKGRPMVWSPSCSNRMYFLNTNFLSFV FPMMNFDMEWKAIPDQVNDRAA
QVILAGSMTVSRRCQGV LHSITA

>gene_984|GeneMark.hmm|154_aa|+|14468|14932 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPSGLKRVFLTPFDTV DTSKKEGVGTIRFEGSKIYKIYQYSEEAAVASVVG EYVAYVAA

SGYANNDVTSLSASDAVGAGVLQAILADNEYGWIQIKGYAVLTIALTAGADGDPLTPTG
SADGALDVSIAVSDNVCATAGDISAQEIMCNFVF

>gene_985|GeneMark.hmm|231_aa|+|14972|15667 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MGTLYTLQIKEEVLGFLGNRDDFTSRIDTIVNIAQMRIARLSKFEELKTSLTDDLTLTGG
ITADKVYTLPTNLRNIFSIKVYEDTGDRYVKLVLGSLSTQFDKKFTKPSKESRNMPVIFYHR
WGSTIEMYPIDKNYKIDIRYNKWPTVLAADGDLSDLQEKDDAIITLAASWMFMSLKKKE
DANFQWGVYKNMMKIDILGEDRESSDITYGVDPRRPVAVGLGYDNPFVVRGMN

>gene_986|GeneMark.hmm|127_aa|+|15667|16050 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
VANLISLNQPVQLRQSNVKDADLYSELRTLLRDIEKQFLAIAIANDNTAGGAVIILNG
ATSVVVTHGVFSFIPLAQDINIISTENPTNDPGNFWLSSITNTQFTINCRQDPGASGLGIS
WNIHRTT

>gene_987|GeneMark.hmm|252_aa|+|16062|16820 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MTVFTRTWNPAYEALPPDTENAKNGAERINETKVDTRERFEVDHSQAGDVEDDGMHKKVTF
VDPLGAKPLQLNDETYLYSKDVDGSAELFFEDEAGNETQLTAVGKMVIDLVYPVGAIAS
ASSTSPDTLFGGTWTALADKQTLVQQGTAAAGTSGGSSVAVNVDHSDTFSLSSDGAHA
HNRYSSASLGGSSALTGLQSSSATGNTASSAAISNGSHSHTMSGGVSSAGVSGTDANMP
PYLSVHMWQRTA

>gene_988|GeneMark.hmm|592_aa|+|16828|18606 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAEIINNLPEEGWQYQIINELGGGLVQNVPKQQLLEDGQFPFLENLIFKDGLVHVDTGVAL
FGNIVLGAPRIAFQFFLTNSTDFLVLNTNAVFTWSSGTSSWLPYNDGTVTTVTNTTVPL
GAAQVSLVSTTGVLVGDIMCITLDNGHIQAVTVTIVASPLVDFTEPLQDAATSGNAVYET
TKLSGTDDIQPSVTVYPYNDWMVWTNGVDNPMYFDGAVLAVIPNLPSSGATLCKLVSTFN
NRLMLANTDEAGVPHQIRIRWSDAGDPTEWLLGDSGFQDLFDESDFLIAVAPLGPFLMY
RDRSIVRAEFVGSASKLNFETVISGEGAISQDVLVDVGFHMFSGSANIYEEKGGFDLE
PVGDVYKVFSSSTGELVPNTKHRGFGLYIEELDESFWFVPHISSDAYPSRVIRFNAQGE
GWWQRTFPFQISGFGYFESTGNVTWNDWDGLTWNDLNFVWNAKNLQDNAPIILLCGATGQ
IYTYDYNVAVTDAGTDISYVLETKAFGHPRVSYRFDEYEFYLSGADIKVEYSLDRGRTWFD
LIVTTSPGAQVISVRSYKQLVGNYSFRFSGSDAFTLESFSFQHSVESEHGG

>gene_989|GeneMark.hmm|302_aa|+|18608|19516 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MANIKDVILGVAPKAVIEQRDTINKEQKSGLAALLQELQGDAPQVSPVTEGQQTLIDQS
VGGNAVAQGEIDSSTEALKRFLDPAGDFDDQVQNPLIRDFNENILPQISRFGFNDFSSSE
RQRGDERATEDLLQTLVSEKSRFLRDDRATQLGAGNSLTANASNRGTILQQFLQSAGIGR
DIEEGGNLKDGEVRQELLKLLGASTNPTKETIGIAQGGQKGVLDIISVGSFAFSKKS
RRLKKNITRIGTFNCGAPKYMFAQYVWGDWSIGCMAQEIGDYVSGAVLMDDDGYFSVDYSK
FS

>gene_990|GeneMark.hmm|407_aa|+|19552|20775 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAIVINVPRDDRFSDIGEGIGELVSALVDRRRDDKDSKTIEGIGNGSVTVSEGLATVSAR
NRAAAQQAGANYNRDNPKRSLQLDDAGGAISERVGRFKQPGEVSAKVATFNKERKATDK
SAALSEIRSTQINDSPTFSDVSEAGRNRRAARNINDQSVDLSRFNKNLYDKLGDLTGDNRI
RVDRRNIHYTDYIRGDNGKPITLTKNAFTLAKQDAEKELQGFLSAQNSNDLITPEEYFG
RPQVLPKDKDDTTPIPTANQEVSPVDAFKSFASSASDIIGGMFNAQEPVVTDSDVSIVDP
EIRVSEATDSAINANYPLQDKEEWVDVGEVYPMVPQSMMDVVKAGNAGAVAPTYAAMANV
PVHVALQLLLQNSKAPTITMLETKVIPDSVTDPEQDGNINTGTIQR

>gene_991|GeneMark.hmm|1278_aa|+|20780|24616 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAMSPEDMQVLIDESRIKLQEDKQRQNGYIKDVQANPPVTQEELREMITQPGREQRDDEG
VLDYVADEVMDIGSSAVGAVELGAEFTTGMFAAFAGTVVGTAKEVADDPLGFLPGPINIA
LSSLVEKDTMKKHGKFFMETFQDYTEAMTYQPRTVQGGQALSHYAQQFLGKFQDWGEQAGD
AVLEETGSPLIATAVETAITGAPVYVPIGGKILQRRADKAKLERRRELIDEGFDTPLDP
TAINQSMPLDPKRKIATSPVDRLAPDVQSIQNKTAQAKQDKQLKDLEKQVRDPNQKTLGLE
EFPRINEDAATPHPDRGRKISTSEAVSRAKKVDQIQDASIIASGRRDIPSVRQVKDLIME
TTFDASAGLRRRILSGNDKTQNRLLLEHNKQSGATPKAQIDYIKSENKIYTNLAREDCI
LLDKFINSRLTIQVDLNAALKKQLPPKHSGNRTGVDHKIALAVTRKRIGEDKYNMLMKRA
DDYFRVHNRLGLDFVEGLITKKQHNSMKGDIYSPRKFLNVDPPLNESLTAGTVSFDIFG
KRVKLNDSGLRELKGSGLDMEMNSKLLQEVTVRITARIWRNQSNVMLLDWVKKNPDNG
WVRVAKEGEGKAGKKSIDAYIDGRKATMLVDKGMALQWVGNTYVMGHGFSSFLRTLSTGQT
IMKPLTTGMNPEFALKFLGLDIVHAHFATDVFSPAPIYSLQLGKNLAVTMKDAFFKGDR
FEAYINEGGGMNFLTHQGTDALGGKGVIRSNNTTWRKTKTALSFLNEGFEIWRVLAIQERS
IAIGKSPSEAAIAREYIDFSQGGTFKSIDTVFPYFNPVLQSVRSISAAATRGDKSQKV
LGLRKRFLYQVAELSAYMGAWAMYQELHFPEVMRQLPTEEKAKFFIFVGRGIRNKQGEV
QYAYVKIRKDNVVAALINPAEMAVRNIITGEVDDQTLAYFKSASPVLPAELSTPTGGML
HTFTYNHDFWGNPVWNNPDLDAVSPDEFTGHSVGKEQSSVFFRDVKGALGMAPERLEA
AMGNIAPSNGLDFGGFAYKKIVDQMLMGNPEDPFLAEQVFEQQLTRAPFLRKMISLTHP
AYRVMEDSKEPRTKSQVLRKNQGDNLDSLIIANNTSFSTVKQWVRQQKPEDQKRLTSYIT
RTELHKIFNGKTEMSLNVPGFFWNHVASEIKDNEEKAEVLYWEWKKMPTPQDRNKFDR
MKRLSVDKQILPGTTLKHFRIMQQRWGTEGIMTSEDGGTFHMYGKRHYMKEMRVRMKQQE
DRKQQAGSIDQSLLPDIP

>gene_992|GeneMark.hmm|399_aa|-|24758|25957 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSNREISDWLDGYLKYTYETEPVYHTWVGLSLIAGALQRKVYFKWGHDTLYPNLYVVL
VGPSGRARKGTAMNIGKDISSIDTIRVASESITREALIRDMKDAVNQYQDSTSGRMIFH
CSMTVMSEELSVFLRKNNDNGFLSDLTDWFDSDRTWYRRTKGAGTDKIQGVCVNLLGATAP
DWLPSILPQEAAGGGFTSRIIFVVEEDKGTVPPEPKFTEEMHELRLSKKDLKISLING
EVTFTPEAKQLYIDWYVDFERKISEGKTIIDDPFRSGYLDLRRATHMRKVAMVCSMSRNSD
LFITTDDFNRADSLHTVEAKMPKAFGGGLGRASYSEMADKVITYIRDNKVVKRSDLLRKF
YRDVDPATMEMIEMVMNQMLVSMQDPLKGEVYKYLG

>gene_993|GeneMark.hmm|510_aa|-|25978|27510 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence

MLDESVLIYNGYDVANTLQCKEEIWKVTKDSAYTYDFTMRLLNPLMYMMTRGVKVDKFKL
DILRKSLEHQIDRKQLRLNELCGRELVNNSPKDCQTYFYVEKNIPPYYNSKRVGQYKKS
VTTDDKAMQRIARGTAARKGLYEATLVQDIRGMRKMVGTYLDMEDKDGRLRCSYNPRGT
KFGRLSSSKTIFGTGMNMQNLPLEFKGFIVPDPGNLMWEIDKKGAEWVAVAYLSGDANMI
KVVEEGLDPHAYTAHLMTGVPIELIQEEDAIIGHTNDPNLVSQGRAKLIKGLANQHAYE
QAVFLPRTMTIRQCGKSNHGLNYDEGYKMFALINEMLEGDAKRICHMYKHIVYPGVNLW
HKSIQDKLQQDRTLNCFGSRMFLGRWEEKLFKEAYAFLPQSTVVDIVNTGMEKFYYDR
RPDMCAPELLAQVHDSLLGQSPLDGDYAKMARVFKTIGDYMEPTIEYGGREFTIQNELKV
STDNWRDGVVEVDIYAGDEELGRQIQNIVEK

>gene_994|GeneMark.hmm|60_aa|-|27500|27682 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MLNNNEVPYEECNKIFISSNSGDTIPSWYTTDCQYRVYSRITKSKFMGGKIKWGMVYHVR

>gene_995|GeneMark.hmm|335_aa|-|27675|28682 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MPFIPVQQERSYFGDGEKSSKICIVGESMSKWEIRSGRVFSGPVGTIYEQCLHGANLTRA
DVYATNIVKIEAKFTLYREKKGFTDLGKEAVNALKKEISELDCNIVIAMGEAATFALTG
RMDVTKCRGYIFPCVFNPLLKVIPTIHPAKVQFGDYIARHYISHDMNKAKEHSSYKGLKY
DLTKVEIARTYLDVAWTWLEEIATWKHVSIDIEVINYECSCIGFGKSIDTSIVIPFYGKDL
YTLEQEINLWRLVAIIMYDENIAKTGQNFIFDMQFLLARNRIVTRGTIYDTMIRHSIAYP
EFLKSLAFLTSIYCNRPYWKDMVSWKKKDKQKND

>gene_996|GeneMark.hmm|113_aa|-|28684|29025 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKPFYVVASPYSNQQASVRQQRFDMVCKYTANLICGNIASFPIAHSHNMAEALGIKAHG
FSFWEDLDVFLIERCDILHVLCPLDWEVSGGVAKEIEKANELGKPIVYIPWGV

>gene_997|GeneMark.hmm|69_aa|-|29022|29231 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MRLVRKGTDKVTQNTKLVHEKMYQVFAIIPNEEYPKGMIVNLNTGGEIHSWQQFYF
NFLGLEFIE

>gene_998|GeneMark.hmm|442_aa|-|29215|30543 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSNRKLISIPVDIIIGKFRKRYEGIEELSTSIVKGLIQPVTINSKELMAGGRRYMA
HVMGQLSHIDCIMLEDSSSEVDLREVELVENLYRQDMTWHERAELTDYIDQLKKANDPNW
SGRKTAELLGKGSAAVAKDLKLAELKNVPELKNCKTEADANKVLVNISKKIDAQQAVDK
HKENPAILAAVTHYTIGDAFLGMEEMYDANPNSMVSLIEIDPPYAIDLQNIKKADLTKDG
SITNYNEVKTNDYEDFITRTCTDVFNCAGEDCWVIFWHAFQWQQLIRDSLEDVGFIVDPV
PGIWLKGEDGKEGSGQTNQPKTYLARCYEPFLIARKGKPEVQKQGRSNVFSFKPTAAQK
YHPTQRPLALMNEIITFVHPNSIIMVPFLGSGITLRAAYQNHCTGFGWELNENNKPLFL
ASLLEDGFGADILEENTDEVST

>gene_999|GeneMark.hmm|96_aa|-|30536|30826 >NVVL0100049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MALQIYVLQKPPPFMLFFNKYTKINTKLIKPKETSIIHMDLEDLRFVEFSEGSIVILFNDKN

KDTSSITHIHNIADQEKLTLFALDVQYKDEERDHE

>gene_1000|GeneMark.hmm|100_aa|-|30826|31128 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MLVDVYEAGNWEKTKWRIYTMARQIEDILPNFLDISANEQEQIVRACRYNKYVLKPSHQA
HKKKAGKKKTKVVSNIKIKNLVKNMSEEEIEKLMANLAENT

>gene_1001|GeneMark.hmm|82_aa|-|31177|31425 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
LSTKWTQEVIKMSSDNDSTTRINIVIDSEQNTLLNKMLPWGAKSDIIRNIVEILIKDLEQ
DSSGDFYSALVKHNVKLVKIEE

>gene_1002|GeneMark.hmm|103_aa|-|31429|31740 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
LGLAPRVLFKEQDMSDQLNSEIVGVPMPTELNNAVNRMGQIQVQLSIVLSKISGNDNSIE
SQLIPQQDMCLREVLESAPTKLFEDQDIILKQIEDLDRILFCK

>gene_1003|GeneMark.hmm|141_aa|-|31843|32268 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSFIQVNLDETIKERSAVPAGAFDLVISDVSDKPANSGSAMLTITHAIDGDDDAMPVKHW
ITLPTKGDDADTVRQKSLGLKRYLEVAGIDYGEEGFDTDVLYGHAFSCSVTNELVDTDKD
GNPIDSPYEVNRLSIPFLASE

>gene_1004|GeneMark.hmm|287_aa|-|32291|33154 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MASLLHAPLVVVTGKMIMMNRAMMPNTKDITNTPRMMVYSDPGGGKTTQFLTIPGRKF
AYLFDPNATQSLRGADITYEEFYPCDVSLRLTSLSKKNKAPSPKARTGAEAYNAWEKDFE
KKLESGFFNDFDVLFDLSTTFSDMVMMDGVLAINGRGGQWPQQDDYGPQMLAIKNVFRAL
TGLGIPLYVTAHYKTLQDELTKKVYNQILVTGQLRQKLPPLFSEILYLEASSDGKGNVNY
LAQTKPDRMFPTVRCSTKGLDYKTDITIDYDKPLEGQGLGGLFFNTL

>gene_1005|GeneMark.hmm|86_aa|-|33220|33480 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSDSYNAHADDGRRKIKKENNVQSIQILTDRGIELKRHTRYHYCITGNLKGIDFWPSTG
KYLTSYNTTIGRGVFNLIKEVDKARG

>gene_1006|GeneMark.hmm|325_aa|-|33640|34617 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MALRYDNTRISEARNCMRKFRLRHLRDWVREGLARPLLFGQCWHNAMDVVWLHADSDKT
DREIFELAGMAFNQQWLAEGGPDPLTMSPDMQAYWSPRTPGVGAEMLNHYIKTRREQIRQ
FEVIGIEVPPFAVPLDPPDPELFFIGRLDKLFKNKQGDIIIIEHKTTTSYSKKDIFRADYI
SSWSPNSQIDGYLYATHMLYGSSVKSVMVDAALVHKTVHNGFKFIPVNRSAHLKSWLYD
TLFWVNMIENEDFRYEQLKPDDEYLAAYPKNTGACSQWAGCTYKDICTMLPNPATQELPL
GFKKEHWEPFDVLKIEELGMVKGNG

>gene_1007|GeneMark.hmm|120_aa|-|34724|35086 >NVVL01000049.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence

MTTKVTAIGKTKDDKGAVTGENEGVIEFNFGENLEEAVKLYGKDAVFNNYRQASTIALQG
NMRRHLSQGKKGKELLAALKDWKPGQVSRQKKSAGEKLQAMLKGMTPEQVAATLKEAGIG

>gene_1008|GeneMark.hmm|62_aa|-|35204|35392 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MARATASIDTIYIMQLSEKEAQYLLCITQNPPISEPKTEEESEDTRDREAIFLALTAGV
TF

>gene_1009|GeneMark.hmm|202_aa|-|35398|36006 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSKVVHLRISDEAVYTCLQVLKVNVTNLPLATIVRRFIEGATDNYRIQKKLPLPEDL
SFIVSALSNDIETPIVMEDVGFVEPLPDGLDQDKMDNIRKAMAASSLGNNSPEVVVRDVV
EDEPVELPPPWEAFHILRWATILDRAPKDVLEEVVTNKSIPLQRAVQCIYSDLPIREW
GTEYTANLVQKILPTINKYFEE

>gene_1010|GeneMark.hmm|48_aa|-|36020|36166 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MINKNIGDSSTPDTWKPTSDSIRDERIDAELQEAFDIVRQEELARERQ

>gene_1011|GeneMark.hmm|58_aa|-|36156|36332 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MILEITNRTKSLALIALALLVLLNGLRSTDPFTQGLLFMYTLVSFVVAIAATGESHDK

>gene_1012|GeneMark.hmm|97_aa|-|36322|36615 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
LEKIMKKKLCVVKQVSLEYLQFISDVDYQLCYKDDENYIRITEVVEVDFPDIDKIELLNA
ELAALDTQATKIKAVAEAAITGIERKRQELLAITHDT

>gene_1013|GeneMark.hmm|89_aa|-|36741|37010 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MNTTKIFKTTWLAVCLSVLLVALTGCRNDNLPFELQDAKQPITIVLSNEAGVIVSDGDG
RIYAYKESYFANMIMKSDLKKGDVITGN

>gene_1014|GeneMark.hmm|108_aa|-|37328|37654 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MDKLLKESEAATGCEASAVERLVIPFGAKVHVVTQKYRRKITGRKKEYVTQEFTANGIFLG
WRTISNGVTYCDHEEGCHWEADKYLQAALVAISPTTNPLYIPVDGIEV

>gene_1015|GeneMark.hmm|73_aa|-|37700|37921 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSKKNWNDLVSKYDKLIGGEYTDDEGMLFTFVGLIHSDDDFYYGLIPKGGSEKGMILRLS
CVCALESFGYDRI

>gene_1016|GeneMark.hmm|84_aa|-|38310|38564 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
LLCAGLEYEMATVIINNVEYIEKPKDIKPPENIHNATHWAVLPDDSILFYRVDDEVVLWQ
PLSQLWIPPSTVPYTLHSYDDYST

>gene_1017|GeneMark.hmm|74_aa|-|38637|38861 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKRIDFLYALLACSIMICAYANGGEIYAFSASLTMIIIFYALLAWAQFEENRLLRISGNFA
GDEFNEKYKDLSGT

>gene_1018|GeneMark.hmm|105_aa|-|38965|39282 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKTITFDMNKYTDSELLNFVSGTSLDRAIDPPASSFRTEEQEQRIIDETKRLLANPIEIN
DACIEEVLELYRIHHNHDLLEFGESVHRYFTVLAKAQATELVLDYK

>gene_1019|GeneMark.hmm|70_aa|-|39279|39491 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MGDTMRKDVDDKLTNIVIEGADRNDYPDFSDAYIASADDADGRPLTEDELDKLNEEYPEI
AQQHAMESLL

>gene_1020|GeneMark.hmm|58_aa|-|39550|39726 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MNKIEEYVILYHTNVLDLSFEVDRFMKMGWIPHGSLATLSDSGGYEYFQAVIKVAQD

>gene_1021|GeneMark.hmm|82_aa|-|39723|39971 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MRQTIVVLEIPTGRHYTRFNALDAIVLIKKRISRLLFVIPTIDVPDGLTGGMFVALIDE
SIERGEKINSFLKMLGGGIT

>gene_1022|GeneMark.hmm|35_aa|-|39968|40075 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MKTLKRIVEMIIYPLPIVVILMIGWGFLNMYVEAQL

>gene_1023|GeneMark.hmm|64_aa|-|40072|40266 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MAQFEIKTRRIRNLTEELNEFFSDNGLPPGSADEVLIDKEIELTTWQQAYLLNFIERWNK
ELLI

>gene_1024|GeneMark.hmm|66_aa|-|40271|40471 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MSVLVQCIQDYDDAEHMSRLIKKGDICAVVDVREYILRVITSHYHGTDQWEVVSFRFYVT
NNKNRS

>gene_1025|GeneMark.hmm|71_aa|-|40471|40686 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MIRFRYLPNISLTQIILTGKATSRFFVTGKVSDINKVLLADIQVPEDLSDVCLNEALSS
RVGYTKAHEVR

>gene_1026|GeneMark.hmm|57_aa|-|40748|40921 >NVVL01000049.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23578, whole genome shotgun sequence
MELSEMVTTLQKLLKDHGDLIVLDANDYPIEEISLCVSTYSAHGDHAIKLFSEGDEH

>gene_1027|GeneMark.hmm|251_aa|+|1|756 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
AMAMAMALALAMAMALAIAMAMAMALALAMAMAMAMALAMDKKTFIQNFVIQRTKTLPAE
AISDAVTAYDSIEALFPKFAKDSKEGFQTAKGRYITDHR LAWFD AIWTVWNVGISTGTKG
GKKQAGDAFLDQIKNKNDAMAYASAREHAEKERPALEAKGSTPPYFNKWFNDGRWDTKL
IVSDEFEMDRPPPVSKEVIDLR CGIHECDNIIKQFGGYGATEGNTNIIKQAKERKEDLTA
KLMQASRNETV

>gene_1028|GeneMark.hmm|116_aa|+|743|1093 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MKQFNSKEWSQGVEVVTGGMDSVRIICTDGP GHYPVVGFIGSDSEASQWNDIGCYCRDLG
TDCRDIFFKPKTITKYANILTRGNGDKYLSNMFHNKLVLNNAASIAIATIEWEE

>gene_1029|GeneMark.hmm|56_aa|+|1379|1549 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MRCKERKDPKDFGRLNGKRKENC FVCEEERENNVVTSLPTRTLKTSQEWLLKRW

>gene_1030|GeneMark.hmm|83_aa|+|1551|1802 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MDNLHNDILESFEKNTTSRNVSYTRVIRC NKGLWKVSSH DYGFAEKAIREFLKYFTGV
YDVIDIDTDLIKFSNGWVMQVSYGG

>gene_1031|GeneMark.hmm|137_aa|+|1792|2205 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MGDEWLNSDHSKAKFLEHVEKIYDEHKHVAFTIKTGKQRTNTQNASMHKYCELLASELN
EKGLDMDLVLSKGVSPWNKILIKELMWRPVQLAMTDEQSTTKPKRQDYGEIYDVINKYI
AERFGIYVPWPSREEMK

>gene_1032|GeneMark.hmm|62_aa|+|2202|2390 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MSVKIRNHKDDPDMLEVYSIDWRGEFTLWGSVHFDILTEFEVEITKDDLDMERDLCIKE
GK

>gene_1033|GeneMark.hmm|37_aa|+|2387|2500 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MKALELIESLGRIVSGLARADIRKDVDMQKIWIKVER

>gene_1034|GeneMark.hmm|58_aa|+|2573|2749 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MSGYWDMGGSYGMSEFSQDLNKE LHRLARFKNETEIIKITEPRQDRVYEKLVWLNE

>gene_1035|GeneMark.hmm|173_aa|+|2768|3289 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAKKCKECKSKIENPYSSTQIACSPLCAILLAQKARAKEDKKKHKEMKEKIKTKGKWLQE
AQQEFNKYIRKRDEGNSCISGRSTGCKINAGHYRSVGACPELRFCEDNVHLQCEQCNCF

KSGNAIDYRIGLIKKIGLDQVEWLEGPHDLNNYTIDDIKEIKARYKIKVKGML

>gene_1036|GeneMark.hmm|67_aa|+|3302|3505 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MIDLRDVRIDICATSPAISVGEVEIILTYEPTGQSVSGKSTYLLKEKLLYRLDQKVLW
GTGGDSI

>gene_1037|GeneMark.hmm|138_aa|+|3492|3908 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VILFKKLNDAIIPKVQTDGAAGFDLHCVEETS VWGGEVTKVMTGLACAIPDGYLGLIKP
RSGLAAKWGINVLGGVIDSDYRGELIVLLTKHTAMPFDIHPGERIAQLIVVPCMNQCMEV
GDLSTTRGVNGFGSTGE

>gene_1038|GeneMark.hmm|62_aa|+|3901|4089 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VNSYTHGIYKGA AIFYNGLPISQEEAIDLLNQT VKLKQEF SILTSKLTALIKRRLKQE
EI

>gene_1039|GeneMark.hmm|85_aa|+|4086|4343 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
LNIDELRNRFINSHKATINKKEFEILDKQFKQIMIESEASAISCDLVNSLLTKKINENKH
LTRLINTLKIQSNCFEQSIRELMVK

>gene_1040|GeneMark.hmm|126_aa|+|4450|4830 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MPDSISNSSVVQALS AVLALVIGLLGSFAAWVGVNIGRIDYLEKSSQYNKINLAKSNEK
FSMALTALGETVERNERQHKERIDSDRRETSRRLAYLEKMHEQSRMDLKELFDKHAQNLE
RIISNR

>gene_1041|GeneMark.hmm|136_aa|+|4827|5237 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MKAHELKLEHGLELKP YRCTAGELTIGYGINLDAGITEEEADYMLDNRVRS LTTQLHNI
DFWIELSGVRR AVLIDMAYNLGLSGLLKFRRMLAAMEVRDFDKAAIEMENSRWFNQVGNR
SKRLQKMMITGDWWTD

>gene_1042|GeneMark.hmm|205_aa|+|5728|6345 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MRSAINQVPHQEIRVAEALLPKRVMFVRHPLTRLASAFNHFWWLTLNTRYHEFVPAGV
ILADGGRLEGRVGGNEHHFSGDRKKFYDDKLAEEIAKGGTTEEIAVRLKQEDWNR FIDHV
LSGNDDHWAPQLDI AKHDGQIVANIAHRFEDVRTHWTKYVGGTLP ELNSWQDV PKIDYR
LAELRSYYDETLTFWGAIDGTW NAG

>gene_1043|GeneMark.hmm|206_aa|+|6392|7012 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VASFTP DADD FLLAYVAIEDGNSTEPMSGQDDGISWARIGDIETATLQHGVFFGA AVGS
SPSSGVVTA AHGTTVGMTLQVTSISSVDVSGTVANALLQNDQGGGYASSLTLTLDATAL
TVGGWSVFGNTVIPEGTEINGTSVDQLDTSMDYDASGDASPSASVSSGNTYFVGF AVELK

EAGGATYPLEIQEFTKFKNRQPILGM

>gene_1044|GeneMark.hmm|147_aa|+|7015|7458 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MGRIVYGALSGVSISSDATQDIWNLLAGTNKRISLHGWELTSAAVAAALCSVSLQRVTTA
GTGGS AVTEQASDEDSGTIDSSMVTDVETPGTPDGVLMGYQWEQLGPVGHIIWTPEMRPKS
VDSQGFALVCNTAIAMTVSGWVCWEEH

>gene_1045|GeneMark.hmm|147_aa|+|7537|7980 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MFAVLTGTALDTIDEDDITGSKTIIVTLHNDTFKAAGTGPIGSTADTQALIDGFDAAS
SPTNGWNNNEVRDKALTSEVVRTSSTIATWTVAAQSGYDVSAQEITGTIPTDVLVIGFGA
ITATPNFTVDAVSSGLGSGHLLLLGTG

>gene_1046|GeneMark.hmm|606_aa|+|7992|9812 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VADNIELSTGSGGATVKTDGSAHWQYVKVSFGADNTQTRVTSSVGLPVDILAGTATIG
EVTIGAATGAAGDLAKAEDAVHSGSDIGVMSLAVRNDTLAALAGTDGDYAPFQV NATGAL
YIQEGAALDVSAATLTVNAHAVTNAGTFVVQEDGAALTALQLLDDAVATLGTTTYTETTT
KGNVIGAVRNDTLAALAGTDNEIAPFQVNASGALYIQEGAAMDVSAATLTVNAHAVTNAG
TFVVQEDGAALTALQLIDNIVHVDDAAFTLGTHSGVMMMGFAGTQSVNANDAGAIAMETD
GAVHIHDGGSITVDGTVTANPASGTIDT VTTVAVTDITNTIDSTISGAALTALQLIDD
PVFADSAFTLGSSKVNQGGVFQSGTPTALTDNDAGAVLLNSTAGQMVELMASTAVIGS
VINAGTFATQNTAQASTNTQEMVGDVAHDAAGNPVLIGSRATAAIEALTEVAEADASY
IATDLQGAIITRSYCTAQEQVEFYIGNTDGAEDAVTGLDAGGAGVHNYVTSIIVHNAHAS
TNGFVTL LDGSGGSISAVFPAPATGGVVHRFDPPWKQPTANTALFVDVSAAITM HITIS
GFQQQG

>gene_1047|GeneMark.hmm|46_aa|+|9812|9952 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MSIDYIYKLLGMKEVELNATRAERDLIKAEVKLLKEELET LTKVAD

>gene_1048|GeneMark.hmm|59_aa|+|9952|10131 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MPLLTIIITNLGMGGTASTVRETRMRGENIITMPSQNRSLYMPNENRSIIMPPNRRKVDP

>gene_1049|GeneMark.hmm|100_aa|+|10128|10430 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MTVKWHRDLIFKGDDAKDPSDVVDYIDFGPMLQVDAISTITATGTNITIDSSNSGNVV
TVWTSAGTDGTIATVKLLIVTTNATPRTFERSFKIEVRNQ

>gene_1050|GeneMark.hmm|125_aa|+|10427|10804 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MTIRRPQQLFTSAARTATIVSSVLSAEEVISSIFTIDCTAVTSTPSVVF SIEGKDPLSG
TFYNIIDSAAITATGTTTIQIGMNIIAAANIAANEMLPSEYRITATHGDGDSITYTVGAV
H MVQN

>gene_1051|GeneMark.hmm|99_aa|+|10830|11129 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MPKTGVSVAAHNRQMRRDALREQLSNQKHVEHVIVLLDKLRDLDEELDNLEITRLSKVID
TKLKLINKYLPDDKEPSDLNLIAQVTTQTHEQWLESLNE

>gene_1052|GeneMark.hmm|512_aa|+|11122|12660 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MNELELQKRKRLKSDFAFYARNCLFIRTKDKGLKPLQLNKAQLFIHQKLEEQKDTTGKVR
AIIKGRQQGASTYIEGRFMWRRTHEKGVRAYILTHEDDASQNLNMAKRYFEHLPKFKV
PSTSAANAKELLFNLLDSGYQIGTAGNKSVMGRSQTNQYFHGSEVAFWPNASEHAKGILQT
VPDADGTEVIYESTANGVGNFFHQQWKAERGENDFIPVFPWFVWQEEYSKTPPKEFRAT
VEESELAEQYDITTDQIYWRRTKIADLSADGTDGERSFKQEYPMNAAEAFQLSGESGLIG
ADNVVKARKSEVNGNGSYIVGVDPSPRGDRFSIIKRQGRKAYDAKSWTGEAVNSLGKAVQ
KCKKVLDTACPTANKKPDMMFIDAGGSDLVDRHLHELGYDNVKAFAFGSSPLDADKYKNK
RGEMWGMENLWLADENLDVEIPDDDEIQADLCASPYDRDSMDRIVLWKKEKIKKEYGFSP
DIGDALALTFAPVVSQGSKLSIPVSSGGWMNA

>gene_1053|GeneMark.hmm|685_aa|+|12653|14710 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MPEKKLSTFSQAEDKIIKQFMADFDLAFTAESNRADMVDDLKFAALDQWDEDVKNDRE
GRPMLTLDHIGQSIRKVTGGIRQNMPSIKVDPIDGADKETASVLEDLTRQIEQTSKAQA
GAYMTAANFQVKMGYGVWRVNTVENTDDIFTQDIVIQRERNPFTWYFDPDATEPQKQDGR
FCIKSETMSADKFKMLYGKDVSPSTSPSVGESMERWYSADSVRIGEYFVKKKKKRELTQ
LSNGVVIPTDEITQQDVQGYREQGIEPVKTREVEIDEIHWHYKLSAFDILEHTIWPVKYFP
GIPVYGVVEENIEGKTEYRGIVRPAKDPQRMNYWNSAAAETIALQPKAPYLVTKDQIKGY
EEFWNQANQKNLPLYPNPDAKAPPPQRIAPPSMQSGLLQQAQISAQDIQQATGVFEAST
GQLPEQRSGKAVIALQQEADLGTSLFMANLASAVEHTGRVILDLPKYYDTQRMIRLRGE
DDSIKFVEINRPMMLTPDGMRIQNDLTRGKYDVRVGVGPSYRTRRIEAASSMVELARVFPQ
ILEVSGDLVAKNLDWPGADEIAERLRKLLPPGIAEPTEEESEMQMQQQQQQAQQQQQIQQA
AIQLEMAEKQAKIGNIEADTANKKASAVKGLTEAEQNDVENAVALAELARDQGNQQLMNQ
ALAEIVGLIQSAPAPQQAPTGLVG

>gene_1054|GeneMark.hmm|65_aa|+|14740|14937 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MHILIDGNEYRVDEQTKLGDYIKGKGEDVYFICTQAKMDEVKLRQFAVARQYAHDLQK
VAKLF

>gene_1055|GeneMark.hmm|267_aa|+|14986|15789 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MSEEAESEVTQDAPIAESSPAPDATTEIENVDAIEPKKVNKVQERINQLTREKYEARET
AALEERIKQLETNPKVTKPEIVAPNEDDFDNHSHYQQANAKFVAETASNAAYDRISAEN
QVRDQANTETARQAEKTKKAGFDANLAEKRGNFEDFEDVAYGHQFMSIDMAERLFDMDK
GPEVAYHLGSNLDVAEKIFALPPIQQAIELTKIEFQVDALKPKLVSGAPDPITPLGSAEK
VSKDEDDMTDAEWLEARYAQINARNSQ

>gene_1056|GeneMark.hmm|397_aa|+|15799|16992 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence

MANTLLTTDKILRESLRVLHAKLNFIGRVNRSYDSSFANKGAQIGDTLRIRLPAQYEVTD
GAVLTAQDTEKNTSLAITSRKHVGAFTDEELQMDIDSFSELHLEPAMSVLAAKAESDM
INSVYKQVYNQVNNVASDMTYKLIGNGRKLLVDNLVPQDNTVTACLNTSDNLDLNDALKG
LFNPQSTIGANFREGGIGRTSGYSFFENTHMPRHHTGTDDGTGDYLTDSATAQTGASLTI
DTGAGTMTAGDVFTVAGVNRVHPETKVDTGNLQQFVVTTAIGASATTITFTPEIATGPY
QNVSNGAANNQALTKVGGNAAAHDVSLGFHRDAFAFATADLPVPGGMDMAGRKVMMDGISM
RFVVRGFDIVNSRFVSRFDITYGFNAIRPELAHRWANN

>gene_1057|GeneMark.hmm|160_aa|+|17005|17487 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MALEQIGTNTDEGAVMPGRHLEVISGLAGGTTARQLLASESGSLCLFDDAAGQIYILPAP
VVGMMVFDLTTVAGTSNSHSIDTDASTTFMGGGVAAVSTAVAEGGDSFVATISSTVSLDM
DSDVTGRLVGSAIRAVALSSTTWGISGTTTHGVGTLATPFA

>gene_1058|GeneMark.hmm|66_aa|+|17528|17728 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MVCTECGHDNSAVAAKDPWCMYKFENGQVVNKLFDPKIPKGFDFSPKAAKAGKTSKAT
SEGLTV

>gene_1059|GeneMark.hmm|129_aa|+|17725|18114 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MTTAQNMIDSSAKMAGILAEQSQSLESGVNTDALNRLNRMFARWANIGIDLGLATLAASDT
VYVDVADEEAIELSLALRLMVKHRRQIAPGLSEAGDQMVTELOSKYSNLPVMALDAALSG
SQRYNINNG

>gene_1060|GeneMark.hmm|465_aa|+|18107|19504 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAKIPVPLVGPTYTNRSLPVGAQVTRNFYVEVNQGGDEAVSMQPFPLKEWGSAGDGFDR
GLGVNLGILYKVSDELVSVDRRGDAVLIGTILGSTRCTLVEDTAGNLVITGHGKPYAY
NGATLTLGKDGDLPKASTAAYINDRVIYESTTGLAFADLDTPLTVNSANILKANTKADGM
MAVVAHRQQIFAFGAKSIEPNSFIGTGTPPYARVNNAVQQVGTSAKYSVSTNNNIYIFLD
NNKQPSRMSGITIQAIGNPAIGQAIKYSVSDCFTVCFDFNQQDFCLFSFPTGDETWLF
NEQSQLWTNLAFGVEDQHLISDYQFVYGKHLVSDRRNGNIYEIDMNTYTDNGLVIHRQRD
TISISSKDLGPPGHKLFMNSLQLVIEPGASLTVQATVMMQYSDDNGRTWSSERWADIGE
QGDYTYHVEWLGLGSFYNRMFRRFMSDAINWVLISAHADVEMGLG

>gene_1061|GeneMark.hmm|178_aa|+|19497|20033 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
LAEKIAPYVQPIPKFVLETNNQEFINWFSYDNLWKQDINVLGFGDAITNVTNSESFETS
SASSEYQAHKRELEQIEDLIPTTQVRELYSKIVTANYTAVNNDFCDIRNGSTVTLDNAG
WNDQIITNGDGSSVKVTSTIELRYKQQRGNTITIRQEGTSIHWYLFSDGTEKFWRAS

>gene_1062|GeneMark.hmm|50_aa|+|20030|20182 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VSIEAESIDHERDIETSAEEQVRLKAVIAGLALILDVEPELLIKIAEDL

>gene_1063|GeneMark.hmm|201_aa|+|20184|20789 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAGIEFLYQDDQTGFDARVKGSDNRFNASSRSDSRGYYNARDAGQAYSVAFEMTTPVAGE
YFAYWQNNHPNSLQLVISAIGVNAVQASRIKLHVVTGTAATGSGVTAITPLNMNRSSPNT
AASSGVTTAVQGDGTGATGIGTLTSIGLVDFLYVAATGHEEFRLDDRLRLGVGDAIALEYD
EGTTGDVAGVMFGYYEKKGRA

>gene_1064|GeneMark.hmm|419_aa|+|20789|22048 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MGIKVTPSGADQSGQDARASLHNRGGVGVSVNYVREYDNLRADIKFFFNETYGGEMNQAI
VSSEVATVIHDGGDTTNADSGTATGGTSGTNLEDTGQNFLTTVGVGMTVRNTTDTTYAVV
TAVVDNDNLTLDGSMVDTETFTVGAVWVGTGDASFNFASGAKIVCTAANNNDAAALFTNA
GTSDMQHFVLTGKIDLDAYNSANHSVEFSFLSSSVLVGNAVNDYINVIDVSEQSFSI
PLADMGITSQTVNELQAVVLRSGGSKPTFKLDDLQLGDASGSATWMALPDHGTTFLAKRL
RFVLADNITEIEYDKFMGLAALTNGVNLIVSNGESLFQGIIRDMGGFYLAGIDEKTSSL
GATNSWTALEIDITSPVVDGTSGNKAGLDDGFYLTISDDLGLLRFGIILGDTVLE

>gene_1065|GeneMark.hmm|110_aa|+|22050|22382 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MARNPFRDIQIATTTLTTVYTAATGINSTISVSLVNTTATALNIDVYHNDGATDFLKN
TIHIPGGAGRERLYYGFERGVLAAGDSIKVQADGATAFNLAIFYGSEIESS

>gene_1066|GeneMark.hmm|156_aa|+|22357|22827 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MGQKLRVARTFDIDVINAFLKHPKVKDCIGDDFSGDVEYPIVDNIYYLAVYDRELAMFV
VYPLNAVTFDAHSAMLPKYGKAKEAGRLAIDWVFNHTGCLKINGSTPIYNKLALKYSE
QIGFIREGVNKRSMKDGQLHDQVYFGLEREWVLS

>gene_1067|GeneMark.hmm|239_aa|+|22812|23531 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MGIELAIGGALLGSSLLGAREQRKGAQSAADAGERAGLAGIAEQRAAREAFEARTQPFLD
LGLSAGEQLQGFLQDPSAGLDQINPVASFLQEQQFRQIREGGSGGGRNVDQDLRFQTGL
TSTLVPQFQQQRFNQLFNVLGLGQNAAVGQGQAALTTGGNISNLLGNIGQAQGGQAQQA
AANQGVISNIAGLAGFGFGGGFGGAPAGGGAPSGGFNALNPNLNFNSQQPNLLQSTGTF

>gene_1068|GeneMark.hmm|368_aa|+|23531|24637 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MARFNPLADFAGGKSSALGIKSQEQGIAREAAAAPVRNQLAQIQLQQAQTGQRREGQQFD
QEQALRRIKLLNQGAKAIGATDPSQWQQAIPRVVQFLGAQGVDAQELAQQVTPESLTSFI
AQTDEFRLDPSKLTSAQKEFASLTEGFSPEDIKTRRVKAGIDPRAVGSIAQTISAKNMA
ADIAKTEGTIAEGKEFGKLTGSSRAKAIDSGFDKIQSISKNIDNINKAIEEIDAGASTGA
IESRFFPSIRASTVALEQIQSELALDVVGATTFGALSKGELDLAKEVALPTKLEPAELKK
FLVDKKSAAQEKLMAYYQEIQIDFIDQGGTKAGFLRSKERVSTGQEGQIMVDAQGNRARVF
KDGTFEEL

>gene_1069|GeneMark.hmm|641_aa|+|24640|26565 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence

MAFDLSTAKPVKRRFDLSTASPVVGAIDLEAFDPAGESVPSGEARPEFIGSGVLEPIAAI
GSGALASVAGGLAGLGAELTPGAEPGVGGDVVRQFQEAAFQPKTRAGQEGLENVGNVIQS
MVDRFNVPASGIGALLELVSGQLDQAVQTEGIIQAQGVGPTVAERTFQQTGSPLAAATA
GTIPDLVGAILGTKGAGQALKTPQAQAIGREIQAVPETAKQVVEGVAGLQRPATRELARE
IQAGTADPAAARVELKPLRTFEGEPTGIERFFDTRGPKIQKDSLAAQAVKQGFDEGVIQP
LKQASRTDKKVMRMAEVAERISKDKLFGMKNRPGDLAGDVLMNKVRAVRDANKRAGKAI
GIEARKLRGEKVVANAGDKFLEDLDGIGIKLGGDGLDFTGSIIEFQGGPKSTIRNIFK
RIGDIENPTAHDVHELKLLIDSEVYTGKGLKGLAGKAERILKDYRNNLDVILDESFTDYN
NANVAYSETIKALDALQDVAGKKMNLGKNADKSTGTLMRRLMSNAQSRRILLDAIEDIE
EAVKKHGGSDLLRIEGKAGKADNLQMLVLFADLNDVFGPAARTSLQGQFDQALQQGVRA
GTTKAGALDLGVSIVGKIEKLRRINKPRAFKAIKELLKEP

>gene_1070|GeneMark.hmm|725_aa|+|26565|28742 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MANQKMSEVPNPIIVDAAGTAGSGYVLKAYDVGTDSKSIDADATSPQTSVTANSNGV
WEVSGNEIVPHINGVYKWGIFANATDATANTPFYMGPFDSIQGSASTNNWFFAENYSTFA
LAVAAAAGKTLFISSVIAPGATETVAGLTIVILEAGAINPTTGITITLNCTVHNWSQSQT
VFGGAGTIAGWHNLVLGPEAGAALTPVFAGHNTMIGAYAGQNTTTSRDNTFIGYECGKA
HIADASSFGGNTAVGANCFDVNTTGYQNTAIGNTALDDNVTGNFNTAVGYGALQKNLLSN
NTAVGIQALYLGNNDATGIGMFALANCTATTKNTAIGFSAALNFGKASDGYLGSDTN
LFCGAQAGLASREGNRNTFVGGASATHGATDMTGDNTFVGAVSGDLNIVDGDKSTILG
AYSVDPIITGQTTSTTTDKLVDSTEHTTNAAYVGLTVKNLSDTEVTGNHDSGSGASVLT
DSGESWGVNDFLGRIIYNTTDGSSGVTANTGTTITATLTGGTENDWDASDSYTLRVGRT
TVSAVDSATTLNHNIMITGENYEMFDESSTVSLCAGGSSNAPKPRFYSPDGSATIGK
LGSSGRLYKNLSESVTTPGAASSFIIQVNIPSGAKIIGCQLKVDALGSGETWSAAYSGG
STQSIVTTGQVITAGHIVDTFFDVNAATDIASAEVDVTITRDSGNFTSTGAIRAIVHYEA
FQSMS

>gene_1071|GeneMark.hmm|86_aa|-|28705|28965 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MNIGAGNFIELGEHDNCVIIGDNLKATQDYHLIEGVCDQVMTPEEHKLINA AVAVTKQK
CEAYYGNLLYQAKTLSSYSGTPRNER

>gene_1072|GeneMark.hmm|79_aa|-|29169|29408 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAQYLKKGSKVYIEGKLQTTKWQDQKGDDRYTTEIVVRDMQMLDSRNSGESTQTRSAQPP
QTQVDDGKQIDDFEDELPPF

>gene_1073|GeneMark.hmm|68_aa|-|29393|29599 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MKGVNKAIIVGSLGADPESKTM PNGYMVCNISIATSEQWLDKNGQKNEKPSGTERSALDV
PPRSWPSI

>gene_1074|GeneMark.hmm|211_aa|-|29624|30259 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
VFEFHDI EQNTDEWLQRCGRLTSSNLGKVMANFGKSFGEPAKRLAAQIAVQQITGKCES
NGFSNEHTERGHEQEPVARMLEYEERFFCDVGNNGFFSTKDLGCS PDGLVLDSGAVEIKSV

IAATHFATVKRQNVDPAYRWQYIGNLKFTGRDWLDFISYCSEFPADKQLYIHLNKSDMT
KEFDMIDSRVEQFMALVATTKETILESNSYN

>gene_1075|GeneMark.hmm|188_aa|-|30252|30818 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
LLWLGQLNIGESKKGKVMGEEKTHYRKAFNSPYLSSADIVGPTVLTISRVLQSDATNK
TKDSFNTAYFEEQELRKGERLKPMLNAHNSKVMKDLTGSHFLEDWSNVRVTIYVDPNVR
FGRETVEGLRISPPAESKATITPEKGQMWNTAKNAYLRDGDFAVLKRAHISEENQAL
IVKECGSV

>gene_1076|GeneMark.hmm|61_aa|-|30873|31058 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MRVSPTQTTVNAIHKNKHVGHQINLDCKLMGMYLEGLSLIKVEQQRKEKQEKWAEFIKVLK
Q

>gene_1077|GeneMark.hmm|82_aa|-|31055|31303 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MINKQLNPLIDFMINRTDGIPGSDNCDDIAVLIGESITLIEIYFQDYINQPSTDNANAL
AKKLTQTFSDYVEKEDTFRIMQ

>gene_1078|GeneMark.hmm|57_aa|-|31300|31473 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MLPEYIKRKYGTQRGALQAFADDIGRPYQSVQRWIRNKYRVEDGRVVKKQTVVVCVL

>gene_1079|GeneMark.hmm|76_aa|-|31626|31856 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MDLTRFDAAKKALEFAGFNVCDDGGVLEISKDRICETFYQTGEHFNSLSFHKS SVESVAVY
AEKSVILGKKYPLSEL

>gene_1080|GeneMark.hmm|95_aa|-|31877|32164 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAITINQILELDINSRNLVDIGYNDSLRNFYRFYELDRLEKDITKALKISSLDQLQAVA
IKYKNSGLNAFNCDDLIEDLMGDDYYDWADANILD

>gene_1081|GeneMark.hmm|55_aa|-|32910|33077 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MRPFDVSHLASKRICKQAEQLCNELKEAIHKYDNEMPIALVLGVLDIVKKEIVED

>gene_1082|GeneMark.hmm|62_aa|-|33064|33252 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MEVIMCEMPKAFSTKTRKARKPHICCECNHAINPGEEYQYSSGIWDEPERHLLNKGEGNE
AI

>gene_1083|GeneMark.hmm|64_aa|-|33270|33464 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MECNRGSVCKESDHQVKTLEKAVEWFYGVLEHLPIRVNQVTAHNGRVQITIFDCDGPVI
HKRW

>gene_1084|GeneMark.hmm|103_aa|-|33454|33765 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MVITKVVIMANRTKKGAWTKSQIQVLGIDWPARRGWIQDIAGAEISEKNRVLFELKLPVK
KVPVDLAKSSYSSVMARIRDLTDQQISNLIRSLETEKWYRNGM

>gene_1085|GeneMark.hmm|27_aa|-|34272|34355 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MVVIIICAYCGLEAEKTEGEKKEGEKRRK

>gene_1086|GeneMark.hmm|66_aa|-|34365|34565 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MNKRQVGFVNIGLIFIVAVGGNVIAN TKLESQRKLLNCIYAKPTYLDNQVNYCENLLK
TKWVVE

>gene_1087|GeneMark.hmm|188_aa|-|34562|35128 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MAYSDYGGYAYRNNARVIERSDAIFTEEGLKSTPGQWPGFSFPEGRRGRSHHVILGDGPV
HIGMNKQSSQSVYLHGETFDIDPLIARHPNTNTKWIGDNGEEHSYVDHESLLNTTVVEV
ILEGHKIEIFWADTDNYYMHIRLTQPDDNIWIGWSGYGVGAGLEDCGYGYSTEDIIGASE
DVWKVKLR

>gene_1088|GeneMark.hmm|59_aa|-|35239|35418 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MTEQEYILAAANLAKISTAVTIMRGVSPGNNYGISDDDYKLILLILRNSQTRLHELAKTD

>gene_1089|GeneMark.hmm|88_aa|-|35415|35681 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MEIILIKALKYGYTRIIELDDFQYSRESHIVISKPLKIEFEMLPESDQVNAEVNVLRLDIK
EKGLADAQVVANKIDEKIQSLLAIEDKR

>gene_1090|GeneMark.hmm|224_aa|-|35681|36355 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MIINTTGELDLRDKKGVITLED DTVIKCDVPYSVGAINGLHAKGNLDCKGYLYCEGNL
DCEGNLDCKGNLDCEGYLDCKGYLYCEGNLDCEVNL DCKGNLDCKGYLYCEGYLYCEGYL
DCEGDYLIITGTLYWSHASMPVLP AKHYINRVLPQKWQREYYQERLGIDISEGCYEEICI
TVLKQIINLLKQDKWTPTELW MLETLRDSFKKPPVWVSEIRGDK

>gene_1091|GeneMark.hmm|78_aa|+|36492|36728 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MRKLDKSKGERQTTLIGFRANYTLKDIANQCDVSTVAIHKAVKDINDGVRPSISLYVDKK
DKIYAFETDIRPVFGFK

>gene_1092|GeneMark.hmm|128_aa|+|36753|37139 >NVVL01000050.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MNIEDLTIKQVREIQGLTSGGTVSVAANNIGDMVGSKIVIRTY SAGVWFGTLYAKDGEEV
ILQSARRMWRWWAAESISLSAVAIHGIRCDKSEICEEVGKVW MKAIEIIPCAPASVNSIE

GAENAKAK

>gene_1093|GeneMark.hmm|65_aa|+|37123|37317 >NVVL01000050.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23633, whole genome shotgun sequence
MQKPNKFDGSDGSDGYGYDGS GSDGS GSDGS GSDGYGYDGS GSDGS GSDGYGYDGS GSDGS
GDGDG

>gene_1094|GeneMark.hmm|243_aa|+|409|1140 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MYS DVAVIIPSR LGSTR LARKSLAQIGDKSLISHVVS KLVKLVKNGLYVATDSEEIAQEA
EKAGATAIMTDED CPSG SERVFQAF EKIPNHHKINYIINVQGM PPFVDPNAVNDIIKKLK
TTDYDIVTPVVKVTADVAKNPSNVKVVVDLAGRAMYFSRSLVPYDATEFLYHVGIYGFKR
DALEKFNLEQSEYEKIEKLEQLRALEHGMKIGICFSSEIPISVDTQEDLNKAREYYSWI
SET

>gene_1095|GeneMark.hmm|367_aa|+|1122|2225 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MDIRNLIIIATFIICLPFSLAAKTRIKDITGIEGVRDNLVGGQLVGLNGTGDKLKNSP
FTEKGLTDFLERLGVNVQGAQIKTKNIAAVTVTANLPPFARMGTRINVKVSTIADAKSLN
GGTLLATPLIGADGTVYAVAQGSIVPEFAPASGGVKT KSKAVETNAYIQNGAIVENEID
FTFTNMRRIKFLYLPDFGTSVAIAAAINNHLSGNTARALDSATVEIVVPTYRTDDLVEF
IAEIESLEIKPDYKAKIVINESTGTVVIGDKVHIRPVAIAQGNLVVNVGHLEFDKKGPE
TDEETRDLVNGFVEERRGRGIRQLEEGANLSDLVAGLNRLGVYPRDIINILHNMKSVGAL
DAVIEVR

>gene_1096|GeneMark.hmm|217_aa|+|2231|2884 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MAGYFGGGIQNVEKPV EHYKIIDQRKNLSPERARGAGRFDEVMKKAASKLEAPLKAGLEP
GLEAGPSDKKVLPTLRPQITRSNSAHRSPGHLQTPGSEHLQTSNSKHLQTPEMHRKSS
LSTGMNPRETDDGTKIALKRLSKEMENQLMGMFVVMIDNARENDPEGGFAEKMFRTPYLH
EVLKSGADPELGEIGKAIYNNLVRNDRENVESVRAKK

>gene_1097|GeneMark.hmm|161_aa|+|2865|3350 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
VLGLKNNINYNKLNQKQLIGDLSRVLKDLIDIARENILLEGGRISQLDAVVAEKFAAL
EKFNQAEINIEIYKKQGG SFDQRKPDIVQAMELFQKFDKHTRRNEVLIQSNIEVSAKIVE
MYKESKKAQALRKFYGNKKGKIAVSKNVESIMPSIGLNDTI

>gene_1098|GeneMark.hmm|916_aa|+|3362|6112 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MGNWTTIADTLKNTGRVLEEGPAYNLQRLQDPNARVVRASLGTDNIGSKLLRRTTFRMDR
PTNPLRERVYMSQVTELENRNTYTEFMDVMQTVIGGGSSQSRLVSVIDDFKQAKILE
SNSGAAMRAAFVGAENVATVLTQATDSITELRLEADTRLRDSVTSLNSTINALYALNQN
ILSAQTPLKLYDKRDEL TRELA KAFDIKVS YGGVAKVQSKSSGEMLVSGDSFAQFSYE
GILT KTDILDHADY PPLKMHHYNQDQKQTNTSIFTDFKSSFLFKGGKWEALIKLRDEIL
PEAWCCVDTLAQNFSGKINILHNDGSSCPAQGYFKSSGEHRGADGLDGLGAFSIYAVDQN

GNQLRGGAGLLNQVNIDPATILSSVEGKAPTMADLIRELNEKLDLAPSRDRAAMGAILDD
AGVQIDGQYLLNNVQLLARSQVSGVAPADSVTFELDLQGSSHFGSNIEILGVKTNDVGGG
NDLALAQNQLPSSFRLEKDTNAASGQFFTLQNSGAGREVTLEIRVIGDNGVVSERGEVSFV
VNPATPGARVATNNVVAGDFAHPIGTNLSSHSGVARAKLVDSNGAEIDPLSGGSGKLV
DTNNSYRLVIQGGGFGGKFGFNDLFHYDAHTGFMEVNSDISANVGNLAVGRIQKDNQSD
SGRMVGDVAASAPMLFGGGAIAAGDVSVNGIDFTFRNAPLPVPADPRDVEDVAGTPLLNL
VNRINAHPALQNLVQATLNVNTITVTAKAAGTGGNAIAVGTNLVGGATASINGFAPAPGL
VISTLIGGTDKITINQEFRYDMDDNNLQILEAISNLQGGQAIHVDCQGIVPESFVSLNLA
TMVTGFFSNYVNDAEKKS DIAVTVLKQTD SAIKGSFGISREEEYIRSVDLAQYMNMLSHI
LGQMQQIEKTILDNIK

>gene_1099|GeneMark.hmm|316_aa|+|6144|7094 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MALSITTTSSILESKPIRKGEVARLTSQLDDAMASITNPDFSSRAKLDASGLNRLYDDA
QRILAANGNKISAQVISVKLENENRGLAEFNAALVAFERDMGEMSDHAGTDAEKADRAL
EKMSLVLRKDPGGRYIFGGSTPYIDPLSKLDNNGVRVAIDLKASTSLIGGQMSRNYSDT
SPNETVVTVSAFHEVKEGFLHPEMDAIYKTIGYINMVKDQGFTANQRDAAQLDARQARGA
AAMAIGLEEKKVEASLYVNDSEINSADSKNNYLFSSDLVESTGRMQSLMHSVQANISLDG
AKTKIFDNLMDRMRLH

>gene_1100|GeneMark.hmm|564_aa|-|7116|8810 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MSSLKREGSEIDDAPGAKRVKLG PAMEPKTTIGVKRERSEEDTRPDSNGSAPPAEVKRAK
LESTACVTQPALLTGNPLTQVETKVFDAQHLSP EEIFTSRFHIPSEAAA PYTHDDL SAL
KERKTSKTRQESYLENLPT EYNLKDVLKALGENNFAKGLVQLPVSSQKWL VKKYLSGENE
LNAAIMELDNNNFSTGFGKLRASIQT VILSQYTDTESLRDFILKLGNNDF AAGFEALRRP
AKAPIIKLYATKTKLNELVDLVSEESLHTAFTQLSDTNKKNLVGSDFA SELCDHLPTKCM
ARMLCYMLPNAQKALLTNVLALD TDLRLELMSCSNYFMLQTDHTETALIDEI IQRYL DY
NNLDVFLKIPLSLFRGLQPKVQILVIKIYFEEDKLH SLLFHL CVPGFSNKKQKEKAKMLE
EYLDCSAPDKLSYPLTPAFINMSEETKTAVIKACLEYGEFN LLLLQPEYSLATLATLGN
HFVSTKDAILGLTPEDP TSRNQIPEDLCRLIVDFTYSEVAIPQSDDSAKYLPPSAIIAYL
QSLETPDTLPPVYLAGDATLMEID

>gene_1101|GeneMark.hmm|164_aa|-|8953|9447 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MTYYSYIQISVGRVLLVSDGNTLGVVYTGQRYFPEIKPEWEEKSDLQLFIKTEQQLIAY
LAGEIGFDLPCKLEGSELQEHAWRAIGQVRRGETISYKDLASRTPYMPAIRAIASAVGQ
NPISIIVCHRIVRHDDSLGGYAAGLEAKQRLLDLERKPV RGK

>gene_1102|GeneMark.hmm|247_aa|+|9850|10593 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MLKTFACKYMAFTLLFITALPLSSNAASASITRHDSYLD EDSYFFDSEGAKVFLERYEG
STVLLVFWATWCGACVNEIPVLDNLQKDFRKL PFKVIAVSEDYHGVQAVQKFFEEKEIRH
LEIFHDYQNQFFKALSISLPTALLIDANGKMKTRFKGRIKWHDEKIRAMILSEIAGNPE
TPHNTYKPRELNMQVRPTPPANQKVPKQVAPAGQEKQSAPMRQAAPAKQIDNKEVKKNE
QKSTKSK

>gene_1103|GeneMark.hmm|311_aa|+|10565|11500 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MSKKALNQSNTITDTRPILSRTAPTRLEQVLMALPFGFGKSQPVVAVLRLEGVIGKGGGA
CRSGLNFGALNKLEKTFKTDLSLDAVCLVINSPPGGSPVQSELIASRITSLAKEKDIPVYS
FVEDVAASGGYWLACAGDKIYASKSSIIGSIGVISSSFQDAIAKLGIERRVYTEGKTK
SVLDPFQPAKTGDVKIHKLQKEIHNHFIDTVRTRRGKLTQSDDLLFNGEFWCGQTALD
YGLIDGIDDLYSFIQTKYGDNVKIEYIENKTSWFKKKLGMHKIAKEFAQDLTETVLDSAE
NRLIQSKFDLK

>gene_1104|GeneMark.hmm|232_aa|+|11511|12209 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MSNFRASILTIFPEMFPGTLGHSLAGAAALRGDWLLDVINIRDFGLTKHKNVDDTMCGGG
HGMVMRPDVLGAALDKALEESPGAKIYPSPRGIPLTQDVSKQISLEKNIILCGRFEGI
DERVIDEYANANQISVGDYVLSGGELAAMTILDSVVRLLPGVLANQETLKEESFEVEEEGL
KLIEHPLYTKPSVWRGRGVPEILLSGNHAAIEWRKAKSIQITKRRQRNLLK

>gene_1105|GeneMark.hmm|131_aa|+|12234|12629 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MTNLIDQFEKNQIEKLTANKEIPTFRAGDTRVSVRVIDGTTERLQSYEGVVIKRNNGI
TSSFLVRKVSHGEGVERRFMTYSPIVAKIDVIKRGIVRAKLFYLRLESGKAARIKERKT
YAPAAQKKKTA

>gene_1106|GeneMark.hmm|190_aa|+|13125|13697 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MRVDSSDDKLFWSYFESIKEVLENKRGNDDFVYNDFMMNLDLADKADVNIPLATKLLC
QPFFVSTIIKQVLKTTCSQHVVHPSVEETSSSSDANLKPDDATITLEMRTNALAADAPVE
LDDLHPVKRTHGANDTPRSIADDSETLDEVSKADQASSQLRFVLRQLQGGDVEVSGEGSS
TGFTVEGDAS

>gene_1107|GeneMark.hmm|101_aa|-|13858|14163 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MSKQGSNGT SEREETLSSRFRAWMKAERANSAQSIFELHKLEAETQIILKEIHSTQDKIE
RLQDEIEWLHGGIEGNLPRQSIHWMELSGESTRSMDSG

>gene_1108|GeneMark.hmm|372_aa|+|14649|15767 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MEPITATTITIKTRSAVKTVPVKTVPVKTVFAAEIDIKNDLAARLTPVLSQIFLSFILF
LFALVASNTAFAPRKKLIAITQIVEHPSLEQAKRGILDELKNNGYEIGVNLKVIKSA
QGSIAN SAMIAKKFVSLSPDAIVAISTPSAQSVLKIARKAGLPVVFSSVTDPAAGLVKD
LSSPVNGVTGAMDYPLIDEGVALIQTLTPKAKTIGFLYNVGEANSVKT VNLMMKKAMDGKF
KYIDAQLANSNQIVQAVSALVGRVDVAVYIPSDNMVFSAMPKLIQLSRKHKLPIFSSDPDS
VRSGVVACIGYSQYAVGKVAGKLLVRVLAGEREIAIEKPSKAEIFVNKKSAYIMNIEIPS
EILGIKTNIVGK

>gene_1109|GeneMark.hmm|304_aa|+|15853|16767 >NVVL01000051.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MMFVCVNVFCYANIASAEKILIAVNQFVSHVALDKANSGLKKALDRGILPDRARMIFG

NSQGNITNSVQISKHHASLEPAFMVSIQTSAQTGLKAKSGKTILGFLAVTDPAAANLEQ
KQVIGVTDNPPIRELIDITLQVPELKTGVVISNAGEVNSQKVIENLEKILAGHNIALKK
AVITNPSDIKAAMNKLKAGSVDLIYIPQDNSVVSALSCHARLSNSLNIPLIANDPTLSASG
VMIALGANYFSSGMQLGNMIADLIEGKGVQRQNIQGSDDKELKINHKIAKMLGVSVPKNIK
EGDK

>gene_1110|GeneMark.hmm|286_aa|+|16768|17628 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MNQLQLLGAMEIGLIYALVAIGVYITFKIIDFPDLTVDGSFTLGA AVSSAMIFAGYDPYF
STLMAIIAGGLAGMLTGYNVRWDILGLLAGILTMTALYSINLRIMGRPNIAMIDSETVF
GSWSIIVISLIIVIVAILALTRFFASEFGLAIRAVGINPKVSTSYGIRVGAMKVIALLGLS
NAIVALAGSLFAQSQGFADISMG TGTIIVGLASVIIGEALVHPERVVWVSLVTCTIGSILY
RIAIAFALNAHDIGLEASDLNLITALLVAVTMIATR WKKKNTVRVI

>gene_1111|GeneMark.hmm|260_aa|+|17595|18377 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MEEKKYGQGNMIELKGDVIFNKGT KLENHVLKSIDLK VETGEFITVIGGNGAGKSTLMN
VLSGNVAPASGQIFIDNLDVTRMPTEKRSSMVS RVFQDPMIGTFSDLTIEENMSIAIKRG
KCRGLAMSSNEPLREQFKAALADV GIGLEERLSDKVASLSGGQRQALSLIMATMIGSKIL
LLEHTAALDPKIAKKIMQLTDKIVKRDNL TALMITHSMSQALEYGNRTIMMYHGS IARD
MHGADRSEL SAADLVKYFDL

>gene_1112|GeneMark.hmm|500_aa|+|18389|19891 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MTASTKDYDNLETELEQITHLQNLFKIAHWDSSTMLASGSAPS RQKEIATLLSVIHEKST
SDKISDLINGSLGEFEHLNDWQRSNL ANAKKTYDMQVCVTSELQHEYN IASAESEFVWRE
ARLQNDFKKLEPYLDRVFSVRNIASIQA KKLRRTPLDVLIDSYPDRTSADVRSVFDVL
KAELPPLIERVMAKQESEKVIPLSETI SEETQKAIGLRVMGAMGFD MNLGRLDKSVHPFC
IGSNDDL RITTRYDEKNFLSSLFGVIHETGHALYLQNLPAEYRSQPVG DYKGM AFHESQS
LIMENQVGT SRAFMEFLAKMLKDEF SFGPEYSAENLYKLVTRVKPSFIRVEADEATYPL
HVIMRFEIEEAIINGNLKAMDLPDIWNS KMEEYLGIVPSSDREGCLQDVHWPSGMVGYFP
SYTNGALIASMLMKS AKEKYPEIDSELSTGNFTSLNRYLTDNLRKYGCSKNSADLLEAST
GHRSIAPGIFIDYLGKYLQ

>gene_1113|GeneMark.hmm|110_aa|+|20337|20669 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MYGVIKFQSPFEK LKKYPCSNEVKLYKATILQAVIDASNIS SSVISRKNEIEAKHWIFGN
GAHFQEICYLADMEPSFIKITRYVIKHQAIRKSQLFLSVLEGKVPKEDC

>gene_1114|GeneMark.hmm|154_aa|+|21064|21528 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MNIFLSKYLNKIDKKG RVSVPAGYRSTLLKEDFN GVIYPSFKNNCIEACSMSRLEELSK
IIQNLDPYSEERDAFETIVLGEAVQLPFDNEGRVILPAYLMEQVGISGQACFVGKGVVFE
IWHPPSFDKHLKSAREIAKGNK LILKNNQNNNVS

>gene_1115|GeneMark.hmm|331_aa|+|21532|22527 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence

MNKKTDLQQQATSDSSSKNENISPHCSVLLAEVLEYMQIKDGGHYLDCTFGAGGYTKAML
AQAECVTVGLDQDGNVEKFADQVNEKFGNRKFVQTNFAEAKAKLGGQKFDGIVLDLGV
SMQIDSAERGFDFMRDGHLDMRMGSAIDAAEFIESASEEEIANVIYKYGEEVQSRQIAK
KIVECRATEPIDTTLKLAQIIRDAMHYRKGKIDPATKSFQAIRIYINKELESLEKFLDQL
EDMLVPGGRILVVSFHSLEDSIVKAFFKEYSAPKVARSKYAKTPEIIEDGKWLKVVITRS
VTPGREEVLRNPRSRSSRLRVAEKIGGADVT

>gene_1116|GeneMark.hmm|125_aa|+|22517|22894 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MLLNRVPVYIILCLITVCTLFSIKSNVIRAEELSEVKNQLQSERDTIHVLKAEAYL
SSPERLQKLNNVYLKLDTKVSQMISDPLKQAEPVYASNAPKARVRWNYKRGASKYLIR
VSSKK

>gene_1117|GeneMark.hmm|616_aa|+|22938|24788 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MIFSLIKLRKLRRIIVASWAMFCVLYPRIILLKLRRAALFRIKKLSNSLHEFKWRKLYRS
LYIWDLSYSQSRMRMHIVIGVFAFVFFVISARLIMVATSEYTSYRRANEVASGSRLDIVD
RNNLLAVNLP GASLYANPRKIIDQLDAANKLSRLIPELKKKELLRLFKKNKSFVWIKRD
ISPGEHEKIYNLGIAGLGFEREQKRIYPYGNLLSHVVGYYVGRDLNGLAGLEKYFEKFLTG
QKEKEDRRKLGSSLSIDVRVQNILSAEIDKGIKFSKAGASGIIVDPNNGEVIAMVSK
PDFNPHHPGDARPKQLFNTVTQGVYEMGSGMKALTVAIGLDSGTSMHDVYDLSYMKVGG
KVIKDT HQMKGWHSVPHIFMKSSNIGVTQIMLEIGREKLSDYFRKIGFLDRLQIELPERA
RPLFQPF SRWSDLSTTMSYGYGFSEPAHF MQAMIPVMNGGIIYPLTLRRDEGEVLTG
ERVFKESTSNSMRQLMRLTVARGTGKKAEVKGYVVGKGTAYIAHAGKYDKTRRISSFF
GVMPASSPKYMIYVVYNEPKGIKETFGWAGGGWTGAPTVGAVLSRMAALYGLSKLKDKNK
EVQELNNVEYKIENET

>gene_1118|GeneMark.hmm|508_aa|+|24778|26304 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MKLKVQLQKYFSDKKIKRISFDSRLVKPGDAFFAIKGEFCFNGNDYIDNALALGASVVFTD
DESQKDNKIVHIEDARRGLAMAAGMLYSQMPENIIAVTGTNGKSSVVSYPVHQIFTMLGKS
SASMGT LGVESTEELSKNAKEISSGMTSSDPLSFRKTL SLLARAGVSYLALEASSHGLHQ
FRLGEVKANGAAFTSFSQDHLEYHHTMEEYLLAKMMLFTEHLADGCEAVINSEMESAEFI
GKFLDERDIPYSSVGANGDLQIKNCQQSIGGQRVNF SFLGEDYSFSTEIIGSFQATNILI
AAKL VYNMGIEFGLIAPLLSKIKPVCGR LQRITEKNAEYQVFVDYAHTPDALEKSLIELE
KLKQGQGGQLYVFGCGGDRDSVKR PIMGKIATDIADYVVITDDNPRDENA EKIRGEILKG
LNYREAGNKEPGNKEETS KKFNGKEADKLKEIADRKLAINETVAKLKQNDILLIAGKGHE
DYQIIGDIVDFSDIDVAFAAIRNRNMV

>gene_1119|GeneMark.hmm|461_aa|+|26310|27695 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MTCWNSKQLEEALGIELSFKAKYNGIKFNSQDVKKGDLFIALKGTRDGHQFVDDAFSRGA
VAAIVSKISPGVDLDKIIQVEDTLAALHMLASYKRAHSKAKFIAITGSEGKTSTKEAIRM
MLTPY GKYANYGTFNHLGVSLTLASMPDDAEYVIVEMGMNARSEILELSKLAKPDI AV
ITSISEGHIGFFESLQDIVDAKCEIFESLDKEHGVGILNHDIPTYENCINNKKIGLKNI
QTFGKSEEAVTRFVSYEELSDSVRLKYMIADDEFEVAMHMLPMHLAENFAAAFAVVRAL
GLDPEAASDAISSFQPIIGRGLVAVKDKKSYRIICDYNNANPNLSLKASLKYLEQIASD

SKIAVLSDMLELGAKELHESIVPYIIESGAGKVFLVGPAMARIKDKIPSSIEVRCYKD
TQHIAEIDQHLHSELILIKGSRFALEEVAKHLGVKDAL

>gene_1120|GeneMark.hmm|362_aa|+|27685|28773 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MLYNILASYAGTCDIANLFAYISSRSILATLLSASICFMIAPSLISYLRKVQKHGQPIRK
DGPETHFSKAGTPTMGGVMVLFSAITSTLLLADLYNPYIWWVCLFVMLSFGALGFMDDYTK
LSRNNHHGVSGRVKLAIQMIVSMIAFIVVQRYTEPEYATQLTFPFKSLFLDLGYFYLPF
AMFVIVGSSNAMNLTGDLGDLAIGTGAIAISSFALISYLVGSSVYAESLQIIHIPEAGEL
AVLCGAIIGSSIGFLWYNSYPAQIFMGDTGSLALGGFLIISVITKHELALSIIIGGVLVI
ETLSVIIQVYFKMSGGKRVFLMAPLHHHFEEKGWPEKVVIRFWILALICALVGLSSLK
LG

>gene_1121|GeneMark.hmm|225_aa|+|28777|29454 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MLGDNPKRPPVSGDGNLFLVKKIFKTLQEGEVHAGVPAIFIRLGGCNLACSFCDTEFEDY
HSLDLSKILAEISSRLNDEGRSVIDLVVITGGEPFRQQISPLCQGLLALGVKVIETNG
TIYREIPEDAIEICSPKVAGGKYLQVRREMLPRVTAFAKFLISCAAGGYALVPELGQREYD
IPVFVQPMDEYNDEVNLRNKQLAIDIAINNGYRLSYQLHKVLGIE

>gene_1122|GeneMark.hmm|228_aa|+|29564|30250 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MKKAVILVSGGLDSSVLAIVKNAGFEIYAI SFNYGQNHLIEIEKIKQFIKNYDVAEHKI
VNLDLSAFSTALINKSVDVPHKEKVGDIGSDVPVTVYVPARNTIFMSYALGYAEVIGAQD
IFIGAHLDRENYPDCRVEYLQSFEMANLATKAGTEGAKISIHAPLIDMEKTEVVATGL
KLGVDYSGTISCYDPSAAESCGACNAACLIRLEAFRGNNKQDPPIYVR

>gene_1123|GeneMark.hmm|184_aa|+|30254|30808 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
VNIKYFFGQFPVLDLGSIVLRRMTEDDASHYMA YMNCPEMHDVLT KDNMPASLAKAKEEM
KYWSGLFDSKRSLYWAIAWKETDQIIGSIGFNHISFPHSRAEISYDLDPEYWGKGLMLKA
INGVLKFA DGGLELVRIQGTVLISNERSIKVLDRCGFKREGVLKKEYEIVAGEYRDYYMYA
RVVE

>gene_1124|GeneMark.hmm|163_aa|-|30940|31431 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
LSIQKKQLKQKALKGDLEMNNNTNPFQDKMSFMNNDNLNQT MQNMPNIDFSAMTDMMKNN
NDTATSSAQVATDGIQSILKKNSESLQKDTNDMCSSMKDAISAGDVSQITLCQQKFMKSA
IDNHVKNTKDILDISAKSILDSMNLFHNVVNDNVNKVSAKAKK

>gene_1125|GeneMark.hmm|44_aa|-|31535|31669 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
LDQKPQIIELFYKYMKNLSINQTTTIVLESNANTELKSNTNAD

>gene_1126|GeneMark.hmm|132_aa|+|31782|32180 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MDKIISVCIEIACSHCGNMLCYEYVDKTLIDTRIMRIIAIKRLKEFWESGYADSEQPLKV

WYQIFRQGSFDNPNKIKSLFSSCSFVGNNRVVFNISGNKYRLVIHIRYDLQIVYIRFIGT
HAQYDKINVGEV

>gene_1127|GeneMark.hmm|123_aa|+|32183|32554 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MELHTIKTEKDYEKALNSIDLLDSPAQAEQLELLSLLVEDYENKHYKIDVDPDISA
IKFRAEQLGLTRKDLEKSIGSRGRVSEILNRKRSLLVMIRKHLHKNLNIPAEILSIDIKR
KSA

>gene_1128|GeneMark.hmm|70_aa|-|32887|33099 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MTQENIILAGMNSAARKAGEAVKESSSQYIEDNVIKGNYSREEYNQLHKLVIKLSKE
VAELKSYKAT

>gene_1129|GeneMark.hmm|104_aa|-|33109|33423 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MESEYSMIYLNFKILNELMSRETTIKNKLAILRPHILEVIDESTQHGHSGNPDGAGESH
FSVKIASIELDDLTRIEKHRVINELLSREFASGLHALSIEIIPS

>gene_1130|GeneMark.hmm|408_aa|+|33493|34719 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MAYAEKVAKILQREIKEAQSGILLQVLLLNMDENILIEDTTPLIKAFYDRISQACKQVP
DHKIVKTTDPAKVYIVLGKNTKDIKIAHSIYAHMQEYTDSDFPETYLRCSVGSIKFRQT
SEDSNGKVIIEFSASKLLSLEYSMQRSGHPYHCYEDHPVDIEKIRNGNINLNQLKKSIS
EGRVKFMYQPVIDRISGDIEYECLLRAPDIHNKFSAGEVIADAESKGLINIIFAVIE
MVIGELSRDKDVTLSVNISNMGVLDKNLLKRIEELLQKHDVANRLIIEITETSLNRDFAN
TQKFINVLHGYGCLFAIDDFGSGFTSFQMLGLSIDIIKIDGSYIRDMLVNNHSAFVKA
LVGLAGELGIKTVAEFVENNKVAQLLVELKIDAMQGNFFAEAMKNRIS

>gene_1131|GeneMark.hmm|445_aa|+|34720|36057 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MSFTTYLDALNSKIEDIKPVKLSGRVSVKGLVIEARGISGFVSGSRCRIKNNLQDSYI
LCEVVGFDVDSVLLMPFEDTEGVASGAEIEIDQHENAIPDDKWLGRVINAFAPIDELG
PLKSGQKAYPLKTSPPPHKRQRIGKKIDLGVKAIDSFVSCCYGQRMGIFAGSGVGKSVL
ISMLTKYADTDVKVIGLIGERGREAKEFIEEYLGEEGLKAVVILATGNESALLRKRAAY
VTMAIAEYFRDQGKEVLCIMDSVTRFAMAQREIGLAVGEPPTTKGYTPSVFSELPKLLER
AGPGLESANITGLFTVLVEGDDHNEPISDAVRGILDGHIVLDRAIAERGRFPAVDVLRV
SRTLPRCNDLENKQITYARRMLATYHDMAEMIRLGAYKQGTREVDLSIGYFEQJEEFL
NQKPDESCSMEESYKRLGAILNITE

>gene_1132|GeneMark.hmm|147_aa|+|36095|36538 >NVVL01000051.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23642, whole genome shotgun sequence
MGLEKSNKSLKPLKTLVKNLKNKMDTLLKEIKYRDSEKDRLEKKKQIEDESQAEIARYS
GTKYAYMLDNYMQNARKSIKIVDAHIEQVVQILEKLREVLETQYSELKKFEIILEMKIKQ
QQEQEKIAETKAMDEFNSNKFIYEKEG

>gene_1133|GeneMark.hmm|131_aa|+|1|396 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
DRVEKAFLERKKMQLYAAEEHHLVFM DPESFEQLLLDKGLMGDKLPLLADGMNV DVEFYQ
EEPLSIKLPATIIVDVEMTDPVIKGSTVTSSYPAILTNGLRVMVPPYLVSGEKIVIKTE
DLTFVERAKKC

>gene_1134|GeneMark.hmm|247_aa|+|390|1133 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MLGDTGLVVDAMRKASRFLQRDYFELEHLQASGSKTSSFCQKACTKVMHTLHDELKRYQ
TIIFSSDEVKSTNFSGKAALVETLDGLGNLERALPFFAIMVTIISNKDGEIVADKAIINL
PALNEIYYAEKGRGAWVERHSSNISGASRVVSGAQSEQDAVVSGGREQM GKAFKSFKNV
RFFDSYTYALTLLVSGKIDALMLETRMISLAGIQLLLLEAGGSTHEKDGLLIASNFKLHD
KIKQLLL

>gene_1135|GeneMark.hmm|187_aa|+|1191|1754 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MISAKDNSAEHMKKFTINCFNGQMAPFAIYIGTPEKVHHPLHFQADWLMKVRGGTIPAD
VMDAVTQLNELAKKNSVPLEELCVYALGSESGNVLKSELEPAEASLPKKPSPELKPDAEA
LNKPKSQEPQAKEQSESKEPPDKAPTPEKHETNTHNQRNAEDAEDMSSEGGHVEDDS
SDSGKLK

>gene_1136|GeneMark.hmm|391_aa|+|1946|3121 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MSRNLAVSRGVLREQRIAKVQLLIDAIRGVDIDKVT EILRQDARIINGVGSEGHTPLVLA
IMVGSSELINTLINHGANPTLIVGGMIPLVCAIEKGNIELINTLIYHGADPTLVVGSFT
PLLYAIEVDSSIELIKTLM DNGAKPNQVVDIFTPLRCAIGKGSIELITMLIDHEANINLV
TGSFTPLSYAIEVDSSIELIKTLM DNGANPNQVVDIFTPLGCAIRKGSIELIIMLIDHGA
NPNLVAGSFTPLLHAIGVDSCIELITLLDRGANPNQVVG SFTPLLQVAVGEGDNIELVK
GLLAYDANVFLTISFLGLLDPSKPVVKSLLCHASYLQLEAVTALYPAVLEDLLKSVLL
STLPEGASSNDIALIEPPLAGDAGAEEGTDF

>gene_1137|GeneMark.hmm|609_aa|+|3209|5038 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MKPVHANS�TLVREIYGYTEFRGDQGEIINHIDGNNTFVLMPTGGGKSLCYQIPSMCRP
GVGIVISPLIALMRDQVSALSQ LGVSA AAINSTQSYAEISATIEKIENNQLD LLYIAPER
LLSEEFMGIKDAKIALFAIDEAHCVSQWGHDFRPHYTQLEILA EKFPSPRIALTATAD
APTRHDIIERLRLTNCRSFVAGFDRPNISYSITPKNNPKQLLDFINGRRRENSGIYCL
SRKMCEEVAKFLVDNGYDALVYHAGMQSNQRAQNQDRFLKGEGVIMVATIAFGMGIDKPD
VRFVVMNMPKNI ECYYQETGRAGR DGLASDALMFYGMQDSAMQRSFIENG DAPDNQKRI
EHQKLNALLGLCEASRCRRQILLEYFGDSADACGNDCI LNPPKTFDGTIAAQKAISCVY
RTDQRFVGYLIDILLGKINDRMVNF RHDKISVFGIGTEH SKQEWQSIFRQLVASNLLKV
DIVGHGSILITEHGRKFLKNKETIALCEYKTQPKAKKASTRAASKAVDVIFTNDDQRELY
QSLKVKRELAQQHNVPYVIFQDKALKEMTMTKPSSHDEFKQINGVGASKLEKYADIFI
EVINIHDSE

>gene_1138|GeneMark.hmm|88_aa|-|5406|5672 >NVVL0100052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence

MANTSLTGIIHWEKFIKNEIVGGRYASASEVVRICALRTLLEEKAVNTHLELLRHALIQGEL
SGDAGELNMQTIIRREAKSELSPNLSNDA

>gene_1139|GeneMark.hmm|955_aa|+|6027|8894 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MFFGIDIDMAIVVTFVLVATLIVGLKYSNINTIKDYALGGRNFSTAALVATITATWASGS
GFFTTLSRTYTDGFFYLFATLFMGVQLLLVAFVFPVPRMGEFLGSISVADAMGKLYGKEAR
VITAIISGAVGVSQVFIQKAFGNIVSYFMGIPSEVSIITSGIIVTIYSSLGGIKAVTIT
DMLQIFAFCTLPLVIGIMIWNQLYFTDFSLTNAFQASKFDVGYVLDVVGKPKFWEMILLML
YFMMPNMIPINFQRISIAKNLEQVKKAWAISAGLLIFLKLKSIWIPFLIFNIDENIPANQ
LLGYIIDNYTYTGLKGLIIVGVAMAMSTADSLMNTGAVLFAHDICGVLKIWQRKELILA
KIFSFSIGGGAIMLALTEDLGIIILVAQSFYMPPLVTVPLLSILGFRSSSKSVLIGMGA
GFCTVVLWKISGIKADPIIFGMIANVVFLFGSHYLLGEKGGWVGKDKKEYLDKQKRIRQK
NKGAFLRWVQEFNFFNLCKRKYSPKDDLYTGFVYVSICTITMYSTQVELLAPNGQIVL
AIYQIMMVTGTMMAMYPVWPLSIKKIKERVAQTWWNPAIFYMLAFFSTFFVLISEFGQL
QFVIFTVNTILLILLAGWRLASLMIITGFYGGIEFFKYKIGIDDIDMAIGSPLFVFMYSL
ILIGALLVIFLQPKQEHLEQTEDKVEDLESEVTTQGTKITTLNKEVGHYSQRVSNQAREI
ERLGATAQKILNNVNHRLPVGNVMMNFAEMLRDGLDKFSDQLKMISEEVYNNNSNRLSS
MILNMLDLAVLEAKKIELKKEEVNFSKLVRRARAQNCRDIAQDKKALEFRLNIEDDVMVF
ADANYICQMIDNLVINAINFSEKGIAINVDREKYFVSFAIRDEGKGPKEIFDIFTPF
KMGSNMESSAEGRGVGLALCKSVIEAHGGEISAESRNVGALFRVCLPYGEVKKEK

>gene_1140|GeneMark.hmm|153_aa|+|9085|9546 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MHKQELATIIDYLQPLTKEDIDLYVENKRDSSSIEEYKYHATDFIATKLIIEIMPAFEG
WNSLYPILPAFNSKDLFVKSVMQRHIMKYFTPLAEILYDLQSSNLSIVNLKFKQELLNA
EENFHKANPEAQNEQIYYDKLCHMLEDAPKLDK

>gene_1141|GeneMark.hmm|49_aa|-|9668|9817 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MAVLIISLAVLFVFFDKIIEHYAPNSDFTTFSNEIDTVILALDEQDDAR

>gene_1142|GeneMark.hmm|331_aa|-|10074|11069 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MAKEPTKLDVDPYLDLESEISRLKEMNAVILAHFYQDPDIQELADFGDSLDSKKAEE
TDADVIVFCGVKFMMAEALILNPSKKVLIPLDKAGCSLEDSKPAPEFKFRDKHPNHISV
VYINCSEAELKALSDIIVTSSAEKIINSIPEDKEILFAPDKHLGNYLIKKTGRDMTLWDG
TCVVHENFSERELVRLKTTHEPARIIAHPECPAALLSYADHIGSTSSLLRDVGAHREMDF
IVLTEPGIIHQMHKIAPSSKFYDVPSLDQAGCTSCSQCPYMRLNSLEKIYACMVNGAPQI
RLDPEVSKKAKIALDRMIAGKYTPLEALQEG

>gene_1143|GeneMark.hmm|957_aa|-|11189|14062 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MSDLEPEDTLPLSKNILPISIEEEMKNSYMDYAMSVIVSRAIPDVRDGLKPVHRRILYSM
HEGGYVSSRPHRSARIVGDVIGKYHPHGDSAVYDSLVRMAQDFSLRVPLVDGQGNFGSM
DGDSAAAMRYTESRLTKISHTLLEDIDKETVDFSPNYDGESEPGVLPAMYPNLLVNGTG
GIAVGMATNIPPHNLGEVIDAACAYVDNNDIELTELISYIKGPDFPTGGTILGTSGIQSA

YLTGRGSIAFRGKCSIEDHNGREVIVVNEMPYMVNKAKLVEKIAELVREKRIEGISDLRD
ESNKDGVVVVEVKRDAVADVVLNQIYSYTLQTSFGVIMLALDDGMPKVMNLKEVIGAF
VRFREVVITKRTIFLLNKARDKAHILLGVRIAVSNIDEVIRIIRAAPNPVAREQLMEKA
WDCSTITSLIKLVDDRTDISDDGTVHLSETQAKAILEMRLQRLTAMEKDKLEKDLGELTK
EITDFIDILSSRERLLSILKSELIRVRDEFATPRKTEIIEGNFDKDIEDLIQKEDMVVTV
THSGYIKRVPLVYRAQRRGGKGRSGLSMRDEDITTQLFIGNTHHTPLFFSNLGQVYSLK
LYKLPLGNPQSKGRPIVNILPLOSGETIANVMPMPESQEEWDNMHIMFATAKGNIRRNDL
SDFKKIQANGKIAIRMEDEDDSLVNVMACNEDEHVLIASKLGKAIRFPVNIRVFKSRTSD
GVRAMRLADKDRVISMTILHGKSSMEEREAYLSIPYEKRLAIAAGDHEFSAQELDVALT
KEQIIDMADAEEFILTSENGFGKRSSAYLYRITNRGGSGIANMVLSEKTGEVVASMPAN
MNDLMLITNNGKLIRCKLDSVRITGRSTSGVILFKTDKGEQVVSASLIADSSDEEEDES
TADESTADESAADESAGAGESGAGESADKSGTGDTNESDGPESDGSEANGSEE

>gene_1144|GeneMark.hmm|72_aa|-|14242|14460 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MLSVRLGQSLNRLNVLSKKTTHRPKSFYVKEALEKYISELEDTFIALNRSLSPNRKFYSS
KEVLNILQNETP

>gene_1145|GeneMark.hmm|676_aa|-|14460|16490 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MRKLAAIWKTQKLSIIILLFSLSSCGDSTEIPSIEAIFAGGKSDEISSASSAEMAPIGGG
AIEGGATGETSIGSTSTETTSTAEQSAKIESRTTSTIVPPALLPLTGRGTTGLTENQSKK
IRDYIVKQTSSNRPIKLLKFKGTNLRGLKLTGVNLSGTDLSGTDLSGIDFRDVEFARVNL
SGAKLDNVILTGASMQECDFSGVNFTGLSAKGVDFHYSIFRGAVFNKVNLSKALLNEADL
TNAKFLNCQLDGDVLSKAVMKNVVIDNTNLQKANLSNANLSNAKITNSAFFGVDFRYVDL
FLATIESCSFESSDLFSIKARKTSFTNTDFTQILEDISFTDSTKFDSSIFDYSSIKNSV
FDNVTINNCRFNDVSMAYTSFQDVDIQHTEINNPKFSSAKMSRVHMNNVKGRDNYFNKIT
MDGVKITDSDIRNSVFSNDNGKKISFLNVNLTNTLFDNYNLTDISFKKTSLSGTVFRNSK
ISKVSFLHSKLEKIAMVNCTLEEVTLNNSRVQRSLFNGVTAIAMLVVNSPSTRNIMINNN
GLEKIAGSQEITSTAQIAKIKNLSNMNMAYIDLSSMSIRQVDFSNSILLGANLAKASLQN
SLFVNVDFRYSNLSGTDFSNSTIANSSFLGAKLDNTILKNTKLNLDFTRTFTRDVNFDN
AEMDNVFGMDAIEAIE

>gene_1146|GeneMark.hmm|475_aa|-|16504|17931 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MALDILIIDDEADIRDLISDILKDEGFTSRVAANSTQAFNAISDKKPRAIILDIWLQGS
LDGLGILEIVKKQYPLMPIIVISGHGTIETAVNAIKMGAYDYLEKPFTHDKLMIVLKRAC
ESAKLKRENIDLKSKVIDKTEFIGNTAITSKLMKMEIEKVSPTSGRVMIHGAVGSGKELTA
RLMHKRSKRASGPFIFNPTSMNPTKIHQELFGSDEKRNNQPLFDKRLSVLEAANNGLTY
IDEVGDPLPGSQNKLLFLKDQTLMKPDGQSVSLDVRIITSTTKDMKKEIANGRFQDLY
YRLNVIPLTIPQLAERKEDIPMLVEYFVKQLSKFSGLNEREFSEGAIAALQAYDWPGNVR
QLRNIVEWTLIMNPLTQNSTGMIKSEMLPQDIISGSVNISKPNNSVDMMMSMPLREAREVF
ERQYLTAQMNRFNNNISKTSTFVGMERSALHRKLTNLNIHASSKPEIDEFAELEA

>gene_1147|GeneMark.hmm|645_aa|-|18174|20111 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
LLESYANTNIYMLTQIWKNLSSYKLSNNAIYALISVISTSLVITLFTYADFFFNPDPL

YILGFLLATLVLILCFSIIVVNNRVSSSTFSFRKGGKRVSKLRKRIII AFSIGATLPTII
IAVFSTYFFNFGIEAWFSQKVS NVLDQSIIVGESYIEEHVMQLRETAISVSN DLSEMCYD
LIRDPEFSKVINAQAEMRSLDEAMVFQKDTQTILAQTKLSFALSFTTIPVHLITRADKG
GIVPIPAGSTKIRALIKLRGFNDAYLLIGRFVDSKIIDHIDKTNGAAEEYFRVKRQISEL
QIKFSMVFIIVSLILLVAATI WGRAFAERIVKPIRELVIAAERVKNGDLSTQVPM EGLKK
DEIKVLSAAFNQMVNQINRQQKDLVIAQRALAWSDVARRVAHEIKNPLTPIQLSADRLLK
KFAGEVSDPESFTKYVKNII RHSNDIKSIVSEFVDFARLPTPSFAKCKIVSMISNLVESR
KLINDLISYSFVSDTEEFELVCDISQINRVMV NLLQNAEEAFGEQE KALGERTSGPKEQT
FQLEGQTSKSEEQKTD MQISVTL SASEDQFLIIDDNGAGFSDKLLTSAKEAYVTTKSN G
TGLGLAIVDRIVIDHFGEVALSNNT HGGARITLTF SVKELTLK LK

>gene_1148|GeneMark.hmm|90_aa|-|20135|20407 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MQNNIKNNDKTLTSAIEARMDEFFAMHEGDCPESGLYERVITQVEKILIKKTIDHVS GVQ
TKASKILGINRNTLRKKVKDLGISCPTPRK

>gene_1149|GeneMark.hmm|317_aa|-|20407|21360 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
LANPVILAPMSGVTDLPYRKL VKKFGAGLVVSEMVASRAMIARSDKSLKKCAIDNDDNDA
TKACVQLAGCDPDIIAESAKMNEDMGAKIIDLNFGCPAKKIVGGFAGSALMRDEELATKI
LYATVKAVNIPVTLKMRMGWDDNSKNAPVLAKIAEDAGVKMITIHGRTRCQFYKGSADWE
FISKVKEAVKIPVIANGDIVCIDS AVEALKQSNADGIMIGRGCYGKPWLISQIAHFLATG
EKLQDPSLEAQLGVVLDHYDAMVEHYGADTG VKMARKHLGWYSSGLKNSSEFRASINQLV
KIADV KDRINEFYGSLI

>gene_1150|GeneMark.hmm|57_aa|-|21363|21536 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
VQAAKVRKSPCAVKKSPGTGRAYLNLLNFDKISSKKYATMRVLKI QKHKKCKFESII

>gene_1151|GeneMark.hmm|158_aa|+|21740|22216 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MQKTD TQKANTQKVVLPEGYKPS ENEEYMNPMQIEYFKQKLLAWRDDLDD SRETLDHLK
TENWNEPDLNDRASVETETTIELKTRSR YCKLISKIESTIERIEKGN YGYCEETGEEIGV
KRLEARPVATLCIEAQM RHENYEKTHIDEDNVDVHTAI

>gene_1152|GeneMark.hmm|1117_aa|+|22624|25977 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MKLKNCISILGVSALSSSVALGGVSIVGGTAYVTGSYS GTIVDPTIYNSLNV DIDNTSSP
ILNNDVTGGD VDV RGSSSPIFQETVNGDYVNIRDDSTPTFEKSVTTSSPYFVAVRDNSSP
IFKGDVYSNHDL SINGTSTPNFMAKTESGRYVYVFGNATAAFTGDVTANYGLSLRENATG
TFDGKVSSNYLFI FDN SKSTFN GEVTTGDYISISGAAEPEFKNTLTSTG SYIKIADSAK
PIFHDDVSVKGDVTISGTSESEFKSITSTNGVILVQDDAKVIFYDVTSDGDITASGNSI
TEFNKATTGANSSLIVKDAKATFHDDVSDSNITISGTSESEFEKLTSTSGTMDIQND
TKVTFHGDV LASGNVTISGTSESEFKQNLSTAGSIFVQDDAKPIFN GSPSTTI AKGNSK
PIFNAPASNVEIRENSEAIFNDPTGDIYISDPTPTVTFKGTSSSKITLLHASPNTPI LK
EPGFTSSGDLIIDS IININLSEPTISGTVKLNKISMEADTKIKLDNDVTMDTPISTSVDK
TGSLEFLGDAKILQDIGSKTNWLKNVTFDTNPADISLEGNIYANSVSFSGSNISFVNDRS

ITTGQSSSLTYHDSSLDLDTKKLTVSGKTLFTGKTTFKTTFNVDGGGKETGGHIVVDGANS
SFNFSGATPVEIILTADSPLSPTDTSYKLLIEENGGTIIPANNITFTPENENSLITWTY
DEATHLNAKNNPAQLPVIVAKTGGSEDDVKVAATLASANSSNICDATNVVMSNIGRLKE
AQMLEAVQRVQTTPLGARATEISSAILNELEARITSLVTGNQFADAGVAAGDSNNKYGV
WANGFYGRGYQGRPLHSPKYNSRLYGLTIGADAPINDDVIYGLSMTSVRSTTKFSDKKAN
DVVKVKS LVFSFYAHRDLGRNWFSDVIFSSGVNRVKGMEKRVSFNNPNQLAVSKYKASTY
SGQLMLGYNHHTKDNVIITPFGSLGYSWVDKIKYTETGAGAQNLSVQSGSSYVLEASFGG
DVAFQTLIKGVPVTPEIHAYISYNFKVKRPTVIKLMGACTPIPARVAKGNKLFYNIGGE
INAISESGSIEYGLNVEIKLSKKYINQVGGGLKLRVNF

>gene_1153|GeneMark.hmm|665_aa|-|25989|27986 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MTKPLFEKVLVAGRGEIALRIMKTLRKMGIKSVAVYSEADTNSMHVQYADEAYYIGNSPA
TESYLSISNIIGAIRVSGAQAVHPGYGFLSEN PQFANILKRNGIILIGPSAQVIKKMGDK
IEAKKVAIDSGVSTVPGYMGIIINSLDQAIEIATEIGFP IIIKAAAGGGGRGMRVVESTDG
IQKAYESAKFEAENCFSDSRVFIEKLIKEPRHIEIQLLADQFGNAICLGEREC SIQRYHQ
KVIEEAPSSFVDEETRQKMYNEVLALAKKVG YFSAGTVEFMMDKEKNFYFLEMNTRLQVE
HPVTEITGIDIVEQMIRIAAGEK LAYSQEDIKLTGWAIESRICAEDPSRGFLPSSGRIL
EYQEPAKTSHVRVDSGIGAGGEVSMFYDAMIACLTHADSRKQAIEVMKNLS SSSIIGI
SHNISFLEAISHQRFDGNIHTGFISEEYPDGFSGANLTSEMSEVFLASTIFAYLTEQK
RAATLSNQMTDQSNKLATRWIVNINDEQFSV IIKQVEDGYNIRHGSNRLTIRSNWNIGSP
LITATINGRKANIKVERIITGYRLTHAGVTFD TYVRSPRMSELESLMPVRDSTDDQKELL
APLSGQIIALSVAVGDEVVPGQEILT LTAMKMENIITAERAGKIAKISVSELEQVNSGQI
LVEFE

>gene_1154|GeneMark.hmm|514_aa|-|28005|29549 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MGKQSFWREKELEKNQSAARLGGGAKRMLTQH SKGKLTARERLEILLDPDSFEETGMFVE
HRCDFNGMKDKKSFSGDGVVTGHGTINGRLV FVYSQDFTVLGGSLGEHHAKKICSLNSAI
EVGAPVIGINDSGGARIQEGVDSL AGYGELFHLNVKASGVIPQITLVMGPCAGGAVYSPA
LTD FIFMVKGSSYMFVTGPDVVKTVTGEEVSKEELGGAKVHTSKSGVADLAFKNDIELL
ETRRFFNFLPLSNRTEL PTRSTRDPADRVDMSLNTLVPSTPNKPYDMKELIERIVDEGEF
FEIQPDYAKNIIIGFAYMEGSPVGFVANQPLN LAGCLDINASCKAARFIRFCDAFSIPIV
TLVDVPGFLPGISQEYNGI IKHGAKLLYAYAEATVPKITVITRKAYGGAYIVMNSKHLRG
DVNYAWVNSEIAVMGAEGAAE IIFREESKDPEKKQAKIDEYKEKITS PFVAASRGYLDDI
IKPQNTRWRICKSLKYLRTKKT DTPWKKHDNLPL

>gene_1155|GeneMark.hmm|342_aa|-|29726|30754 >NVVL01000052.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MIENDNQ NADLMVAEAEEDTAFVEILEPEPSEEEQYLSHDPLICGT LAIKSYAIEFLEDY
LPAEIQKSVLDSTINVEPESYVEDTLRKKMSD LVYSVKTKEGD DAFIYLLLEHQSSVDYW
ISFRLQKYM LLLCERHKKNKEPGKLP IYPLVLYNGKAKYTASLNFWGLFDDPKRAKEVM
GGDYTLVDLHAMSDDDINERYSSLVLSAMKHIHDRDTL KMLDLLFGRCKIALSLDKKED
YVLLRMIIIEYTNPKVPAEK RKELEQVIKGHLSKKEGENFMKTVKDSYKEEGREEGAEQKS
LQIATNLLNQSLDQSFVASVTGLSISEVERLQSSAHNASSSL

>gene_1156|GeneMark.hmm|224_aa|+|31073|31747 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
VRRVKSLLLIIFKSFAIFAHIDRELLESQKCSNIFGHFEKEYDLPKDTLYAISLQETQ
KTHSKHNIWFAWPWTINVGKGYFFKNKEEAIKFARAKIKSGKKSIDVGCMQINLKYHAK
AFDSLEEAFPAKNIAYAAKMLKDNHRRFGSWREAIGRYHSGIKKRAVRYHASVNRRISS
IDVYKKHLRDYIISQKRNEEFEPFSIQISVASYLSGSWFRASA

>gene_1157|GeneMark.hmm|294_aa|+|31796|32680 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MFDLQKLERNRAKSYAFIKGSNFHQFVCDDILNRLEPVDRDFKDILVIGSALGEMVCADV
KKHYPNSNISLTSEVDNLEQQSKDHQSKDHQSKDHQSKDHQSKFDLIIFPGLHWNVDVQ
IFLAKIKRMLTDDGVFICSFPAAGTLPKLRHLVQLEEKHSTSHVPHISPFIQFEQVTQL
LQQAGFVENIIDTENLELEYDSPLALMRALKNHGESNALTCAVYSITKAMHKELGKKKE
SDSEGISSGTGEEKDSAEEDMKEDSFIDFVNLTSSISSATKKTIKLKPYPYFQG

>gene_1158|GeneMark.hmm|465_aa|+|32790|34187 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MQEFDLVVIGGGPGGYTGAIASQLGMRVACVELRKNLGGTCLNVGCIPSKALLNFSEKY
EEAREHFADIGIITNAKLDLAKMLAKKDGVVSDLCKGIGSLFAKNKITRFSGVGKILDDK
TVEISSGSKKEKIKAKNILIATGSEVIDIPGVEVDEESIVSSTGALTLSKVPKELVVIGG
GYIGLELGSVWRRLGSKVTIVEFADRIVPALDKEIGKSFTKILEKQGFNFMMSTKLVKAT
KKSQKVELVSVGVGDSKESKLSKCDVVLVSVGRKPNTGLGLVELGVILDDRGRISVNENF
QTNMNPNIYAIGDVIKGAHLAKAEAAVEIMNGQAGHVNYNLIPGVVYTWPEVASVG
ATEEELKQTSVNYKVGKFPFMANSRARSVGATDGMVKILACAETDRVLGAHIIGADAGTL
IGEIVAYMEFGGASEDIARTCHAHPTLNEAIKEAALAIEKRTINM

>gene_1159|GeneMark.hmm|296_aa|+|34312|35202 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MSRVSVGGENYGSADNPIEASVSAREVMEVVDAAWASHKRSNSLYGLMADLASSFGKDQSK
LTNIMNLRGGEVVHILGNEGILFKCSCLNSIEKRESLERSEGMDGIKKGDPINSSKSIE
EFKSFLEPGARHSFEDIDAIRSVFADYFDEEGVERLIPIIEQGNKYAYIRGTSARVLLK
VSKDGNDSPIYLETIKKSQSNAISVGKTWQDFSDKISEFCRLKESARSFADFKNLLD
SFLTGLTLENIVSILATGGPVYLKGYDEVNILLKTSHDNDVEITGSIMPWCQNDA

>gene_1160|GeneMark.hmm|144_aa|+|35273|35707 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
MSRDNIPYIGLVGAGQVFSFSVERGGAKFLGLEFSGEHMNWFALFDRIFQVLRISWWVE
ALLDEWRGDIAEEPVDVRPEARSIFRFSIDVYHIKYLHIDFSGECADWLCDVQDELA
FVQDAQEMLGVLGGDAVAEAYQFG

>gene_1161|GeneMark.hmm|69_aa|-|35838|36047 >NVVL01000052.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23653, whole genome shotgun sequence
KDEGKIPKTEIYDIFTPFKMGSNTESKAEGRGVGLALCKSVIEAHDGEIEAESHAVGAL
FRVCLPYGK

>gene_1162|GeneMark.hmm|104_aa|-|90|404 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MNNIENYYHLRKEGLIHHVSGLVTESAEDLGTNIAETLLYNELEAVKTQTPEEIEEMRAI
HDQISNNIDTAICKYRDSLIEEIKNEAMKIKVSNASITKEQKEC

>gene_1163|GeneMark.hmm|84_aa|+|856|1110>NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MVASKISRHSDKLESYDGGDIFSDIRYICSSLSLIVGSLQKGFDAQLPSGDVIVTEVKT
INTQYSWDKKRKKMIKVGIVKLVE

>gene_1164|GeneMark.hmm|180_aa|-|1150|1692 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MARERRSSAEIVETWNGQEEGVAYYDLVQEMSELLKEALGEEDFERAKTIIVNAKKNPA
EVAWEGLGSLMLNMFDSISSQLPICEALQFTPTGIHTMTDIDFKAHPATPEQVRNFAALL
PNEEKLKLIVVHSVPLGMQNAQAQIWDVAVPQTTTVQVDYIGGYSERGLPGAMETQEPTEG

>gene_1165|GeneMark.hmm|165_aa|-|1787|2284 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
LNHMLDSQLIAIVEKIKTAAQKGVITISAAESCTGGMLAAYLTAISGSSKYFHGGIVSYSN
SAKINLLSVNVTLEKFGAVSEETAREMATGARKVLASDLAISITGIAGDTGGTRDKPIG
MVCFAIANNEGVQSYTHHFTGDRTEVRQQACKIALELLAKMTRI

>gene_1166|GeneMark.hmm|201_aa|-|2281|2886 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MDIRKKIAELFATIFYIGKIKYAPGTLGSLVAFPLCYMIVYLTNSQFVQISSLNFEES
QIFTLFTVAISTLLIFIAGTYATKIYIEGAEQDPSEVVIDELAGQMLTIILSSFSVFL
LHGTQIASMYDAQTIDFLLFLLPFILFRFFDIKKPWPINWMDKNIKGALGVMLDDIAAA
LFATITHYAIIFIILDFYKMOV

>gene_1167|GeneMark.hmm|108_aa|+|3006|3332 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MKELIAKFDDFEERFAKDTSDPELIKFFDEFVGYVEKIDLDSEKHLQIKQRMHKLQQLFA
SRKEELTEESNNLMVKQKQFNRYITNFGYKNFSYKDGLTNKKSGAKWN

>gene_1168|GeneMark.hmm|92_aa|+|3340|3618 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MELEIILKALLSLGFVFAVMYVLLKIMQKYSNVGSGSKLGGAESGLKIENILYIDGGTKI
INIANKSGSNYVIAVAKNNSFLIDKYKTKKEE

>gene_1169|GeneMark.hmm|249_aa|+|3615|4364 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MNRKFALLNIYILLGTLIPELALASDSFATELEHLLSSSSMTSRLMQIFILLTVLGLAPS
ILIMVTSFVRIAIVLSIVRTALGLQQSPPNQVLVSLALFLTFIMSPTEESYEAGLKPM
LEESMTEEEAFPLIVQPFKNFMTANTRPKDLDFCSIAKIEIPKEAASLPLRVIIPSFMI
SELKRGFEIGFLIFLPLIIDIVVASILMAMGMMMMPPVMVALPFKIIFVLDGWYLLA
GSLVQSFAT

>gene_1170|GeneMark.hmm|105_aa|+|4385|4702 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MTKEITDSEFEAEVVNSKEPVLVDFWAPWCGPCKMLTPILDQLSEEMAGSVKVVKMNIIDD
NPEIPSKFNIRSIPTLMIFKDGKSVASKL GALPKNSIKAWIDSSI

>gene_1171|GeneMark.hmm|1046_aa|+|4706|7846 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MTSLNWGIVFEDLSSLSGLKKLDERFLQYVQSHDSGLRLELLSNRTKALAGYWDKCTYQE
KSVRELEYSEFLNLAPLLDDFIADLFNITEENLALKHQSSSEFDIVYECRRKFIQRHALK
KYPKEKLDDSDFAVISLKMKELLGQISEQSIKSVMKWQAEPEKFAPNLDIAAKYCAFV
HKNSSLVLFDPVRRIDDNNHIRSHKIDQLSKDVCLGFDYRDKEQSMPRAMAHAKYCIYCH
KQNKDSCSKGIDSSINGCPLGQKISEMNQLKSRGFNIAALSVIVIDNPMIAATGHRICND
CMKACIQKQDPVNIPLVESNILDQVLCPLWGAEIYALLTQWNPLNLAAPLPKPD SGHNV
LVTGLGPAGFALAHYLLKEGHSVAAIDGLKISPLHFDALRPIKYWSDVKLPLSQKSPTGF
GGVMEYGITNRWDKNNLSLVRLLARRKAFRMYGGARLGSNITTKQAFDMGFDHIALCLG
AGKPRFMKSADYFAKGVRTASDFLMNLQGGAYIHGSTSNLLVRMPGVVIGLGLTAIDAA
TEMLHYYPVQVENFLQKWESKENPEDGLGPEDKAI AHELVT HAKLLRAAKNDAERLKILA
GFGGVTICYRKTIKESPAYLLNHEEIEHAKAIGVKFEELMVPGEVKADEYGSASSLSFAN
GREIKAKSILIAIGTGSSEFQDIDGLDLEGAEIFRRKDNKISYFGDCNQKYAGSVV RALA
SAKNGYKSISETLNLETKQSLGSRRELCVDALGTQLKSYVKKVNILSDNIVELVVHAPLA
AENFKPGQFFKLQNHKPNHLKNQQGNPASEMEPLAITGAHV D KDKGLIWLIILEMGESSR
LCRTLQEGEEIVLMASGTATSIAQNKRVLLIGGGLGNAVLAPIAQALLANSCHVTYIAGY
KKLKDRFYPERIEQNASKVIWACEEGEASARADDLSIKGNIIAGIEYARKKNLLGGIDQV
ICIGSDRMMRAVSSQRKRLFSAEMICSINSPMQCMMKGICGKCIQKTS DARGYIFTCEC
QDQNSDIIDF DALEKRLA QNSLLEKI

>gene_1172|GeneMark.hmm|253_aa|+|7980|8741 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MTKSSEWQMILGSSSEDWRLNFVSVMNLSLLVMCEEFGSNAEKGVASSGLNARSNEILAK
SLDALPADMKPYCEQGFSSNILGFLAFNEKVKGFLLSQVFLLSSPEAQQVDQFYDLRGQ
AIKLLKSLSLKQVQYLVEKPVMMVVLGDDDYAEAVDALGEEYLLTILKAPGAIEQLGDLG
AVIQDVQDITTLNKILWANLAVDLGIVQARKDELAREAAEELAAAEFVSDQELTELPLG
EDYGYVAGTYNTD

>gene_1173|GeneMark.hmm|463_aa|-|8932|10323 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MSKKPDGMDVSNNGSTTKRTAEALGGGTESAKRVKLT TTDVAVDPADKHGHTALMRAVM
EGHVGVAMELIENGATVNLTDEQKT NIFMRATHNGHANVVAVLIENGTNVNLT DNDGRTA
LMFAIHNGQADVAVLIEKGATVNLPDKQTTNIFMWAIHNGHANVVEVLIEKGATVNLT D
EQTTNIFMRAIHNGHANVVEVLIEENGATVNLTDEQTTNIFMWAAQKGHADVVALLIKQGA
NIDQLDPNQDTALMFASQYGHANVVAVLLQRSANIHLVNDRDDTALGYAYRYGHDNIVKL
LREGANIDLTTSAHDLEWVFND FQMPVFILA AKYGKLEIARTLLQQGTNVDLADEGGT
ALTWAAVNNHADVVAMLISGGSNIWVLSVEEFVNNPTSALLLRHIGSSMLKITAELYNET
LVDLLKLVVSTIMPQDYGVSNLDSSFTFDAHMIGNGAIDDDML

>gene_1174|GeneMark.hmm|1065_aa|-|10758|13955 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence

MNILQIEASNPEISTWVSASAGTGKTKILTDRVLRFLQGCPPNKILCLTFTNAAASEMR
ERVTSLSLAKWSGLSEAGLKEELSKTLGRPPARGELTRARNLYSAYLSLEEKINIQTIHFS
CQKLLKKFPLEAGISPSFRIIDETKSYFILQQIKKTLLYKEDLAPIHEYLTFANFHEMIID
EILSEIVGQRDKFLNLDIDNIHEKSLQIISELQKDFDQHYSAILRHQIVQDIVGFDVSV
ELKSFFLTASGQKKKRIVPQKIAKPGSNLYSDLEHIQHETHQIDQANRSHQLEHHSKLLS
LLGASILRTYAEFKSNKGLLDYDDLIIYASKLLKSSDAKEWVLYKLDGGINHLLVDEAQD
TSSTQWQIIDAMIGEFYAGESGREENRTVFVVGDEKQSIFSFQGADVASFAHMNKLLKHK
MTSGGKEFKDINLSISYRSAAEIIESVHHVFSYIKNHMPDNFHPHLPKIEAFRTKHSGSV
ELWPICKTNEVPESFWPIELSEESKATSSHALAGKIADYIEKQIQSGRILPSTGAPVAYG
DFMILFRKRDEFTQEVIRALKNKKLEVSGLDRISLRENLAVRDLLAVAKFVINTHDDLNL
ASLLKSPLIGISEELYDIATKRGENSIWEYIQNKLADNNSSSDNSSNIFTKLSVFIDLF
DQSNLNNFFQHIVDILDYRETLNAHCGADSNDAIDELLYASRNFAREHGTSLQSFIFWLE
NIDTSIKRDSASLNKIRIMTLHASKGLQAPFVILCDTTGTPVNSDRFLLGVDGKTLSSAK
SSSEPDYYKELKALKQSKAYGEYLRLLYVGMTRAEDHLVICGYQGSKKLPENCWYELARQ
AMQDFAQLSEGDRLIYGTEEAARLDDSAKQASGVEFFYNRKQVLAQKENVIPKESDYH
KPDYSPLSKKDPMGYGLAFHKILEDSIKIADPGSMRSHPLIKTLDAKPQKRIKSSIEKIL
ANQEFMQLIQQDAKTEIGIGTRADGALKIGRIDLIVTRAQEVIIVDYKSDLLPPAADKPV
PENYYNQLLFYRETMQKIYPNKQIRTMILWLENGKLELEDAQAT

>gene_1175|GeneMark.hmm|254_aa|-|14113|14877 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MNIIHAQNKENFISYNRLVAAKKKAPFVIFHHGFMSDMQSKKQQLVESFCKKQGYNFIK
DNYGHGESSGEFLNHTISSWTGGLELIVDNLAGDRPALLVGSSLGAWITALFAIKYPPKKV
MGMVLVSSAFDFTEELIWNLPQEQRDILERDGFYEVIGTDPSCDHTYPVSLDLILDGRK
NLLLTRDKINITCPHLIHSMRDIDVPCSISKRAAEKIVSDDVVLKLIKADHNMSGEKE
MHIVCNSIEELMEG

>gene_1176|GeneMark.hmm|386_aa|+|14906|16066 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
VTTTRKYHHRHYKKTILQVVPALISGGVERGTLEIAKKIVDSKNISFVISSGGPLVDALK
KAGSEHITMNVASKNPLTILRNVSIIKIVIRDNDVDIIHVRSRAPAWSCCMAAKATGATL
ITTFHGIYNFKSWIKKYNSVMTEGKRIVAVSNFVKKHIMDNRYRVDESKITVIHRGVNHK
AFEQKLSAEKLSRFREKYNVPAGSKVILLPSRVTAWKGHMVLIDAINKIKDLDFYCIIA
GDLAKHPGYVARIKDKIKKYKVQHRVQLFGNEPDIMALYGISDIVLSTSVPEAFGRITII
EAQSMKEMVIATNIGGACETIINDKTGFHVAVGDCEDLANKIRHCLSIIIGTDEAKTITTN
ARKIAQEKFSLDCMLNSTLAVYDEMS

>gene_1177|GeneMark.hmm|280_aa|-|16199|17041 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MRINNNFPAPSYSSRVNTIKYVIIHFTEMEFDGALSRLTDPAAEVSAHYLIKEGGEVFL
VADENIAWHAGKSFWNGEESLNKTSIGIELDNLGNRAFDAAEQIKACLELGGILQKKYDIP
SFNFLGHSDIAPDRKIDPGIFFDWELFYKNGFGMGARSRRNLAEREQDLGTRRQDIKSR
QNLAKDEQGLEMGVFLSFGDVSEDVRSMQRLQILGYKIDVTGIFDEQTNFVVRAFGAHY
FPEILQEKGAAAYQKLDISKYDWHYGADAFLNELIRIYKTA

>gene_1178|GeneMark.hmm|272_aa|+|17120|17938 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence

LDNILTIEKTDKPHGAVKSEVLSLVLVILALAVRTFIFELFYVPTGSMRATILEGDYIF
STKYNYGYSIYSIPFNPDLFEGRAMASQPEYGDIVIMRPPHNMEERYIKRLIGLPGDKIE
IVNDLTYINDKPVTRLEVGGQFVSEDEIKYIKFRETLPNGLSFFSYKLYSTKELGADQRN
YGPHIVEAGHYFFMGDNRDMSGDSRYQLGMVFPFRNLIAGRFFSTKESLWDSKAGFVE
QITRVWWTWLSIRFNRIFYKLYEPKSDSGNGK

>gene_1179|GeneMark.hmm|229_aa|+|17928|18617 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MESNFSKESISPLEEAIGYQFKDIILAEAFSHPSLKQVKESTLNYERLELLGDSILGLF
VTELIKFRFTSEEGILAKIKAHVVGAEILVKISESLGLADYIIMTNGEEKSGGRLNPNNL
ENTLEALIGAIYLDNIDSVRAIVANLWAPYIENVDFSASDPKTFQLQELVQRNGEDLPKY
TVIGREGSDHSPFLTVEVKTEEHTETGDGKSIKEAQKNAARMLLGKINN

>gene_1180|GeneMark.hmm|299_aa|+|18647|19546 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MQKQKALSICIVGKPNAGKSTLLNRIIGTKLSIVTPKVQTTRSITGVVTLGDTQLVLF
TPGIFEPKKKLEKAMVRCAWSSFSADIVVLIIDSSSKLDEMSETIVKRISLNQKIVFL
MKNIDLRSKYFLDNIFLEESVPKARIFNISATKNGVDGFLNYLKEQATESGWSYKDD
ITNLPFRFLGCEITREQLFLQLQELPYNLTVECESWTEQKDGSVKVRQVIIVARDSHKN
MVIGKHGSRIKEVGSARVNIEKLLGQKIHFLFVKVRKDWENNPEFYQAMGLKYLKDE

>gene_1181|GeneMark.hmm|259_aa|-|19602|20381 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MKESKLVENIAILHNSDQLVKIARSLEKMFNRTSPQEADLIIVIGDGSMLHALHKYM
HLDIPFYGVNAGSIGFLMNDLHTENFLGNIHNSKITKLYPLEMHTIGEDGSESALAIN
VSIFRKSQVAKFKIEVDGVRMELSADGALVSTPAGSSAYNLSAGGRIVPLAAKILCLT
PICPFRPRRWSGALLPIDSVVRFEILEPKKRPVNAVADFHEFQNIQSVTIKSTEEKAIRI
LCDGHHTFEDRVIKEQFTY

>gene_1182|GeneMark.hmm|558_aa|+|20496|22172 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MSFNLKTNKDKLLFVPLGGSNEIGINVNLHYHKGKWMVDCGSGFADEHLPGVDMVVADL
SFIEAHKKDLLGLIVTHAHEDHLGAIQYLWNELECPYTTKFTKTKLAKLSEYSFPDSM
KIHEVDPKKKFNLGDFSIEMIGLTHSAPEMQALMIRTDAGNILHTGDWKFDPKPIIGEPS
DEKALKACGDEGLVALVCDSTNVFNKGTSGSEGDVRESLVKIISECPKMVVVTTFASNLA
RLDTIIHAGQKAGRKVLTGRSLHRMLTAAQESGYLNNIAPLVDERSIGSHKREELLIVA
TGCQGEEMAATSKIATGIHNSITLAPKDTVIFSSKIIPGNEKKIFKLFNIFVKKGIEVIT
EKDHFVHVSHPAIDELKKMYKLVRPEICIPVHGEPVHIHEHARLARSEGIKHAIEVENG
SVVLLDKKSPKIVDKVENGYLAVDGNYPDNLHIFKMRMRMRDSGIVVSVVLDENQRV
ALPPMLSLPGLLDHIEDAELISILKDEIHKGLKQKKNRQVLLVDQIESCIKTSRRAI
KHEVKKSPIIIVNLEEID

>gene_1183|GeneMark.hmm|55_aa|+|22391|22558 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MTCQDVYKEEGKEEGRVEGRVEGAEHKSLQIVTNILQQQFDLQKQIVSITGFLAR

>gene_1184|GeneMark.hmm|1360_aa|-|22861|26943 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MSKIYPANKKRIAKKKATGKKLLSSSVLAGLFISSACYTPLANSQDYAFYNQTRTFSGNI
VASNNNPPAIELYNSTVIFKGTVEANSNRSFALYLRNNSTANFKKTMTANENSIGIFIND
NSTVKFKKAAEFNKNSTGVFLNDSTGNFNHTLTANENSLGMILNNSTGKFKKAVEFNKNS
TGMVLDNSTGKFKHTVTANENSLGMRLKNSTGNFDKNVTLTNNETGITTNTSTIIFKNKL
IVSESTITGISILNSDVTFTVELNNNKLGLSVTDSTVIFNGPLTVTNDSPVSSTGITAS
NGELVFNDITSHDLILSDNSKIILSDGITASVPITTNSNNKNSVICKGSVTINHNIGEY
GKLEEVSFNSAGSRNSITLNAPIFASNALLDGTGLGNFTNGIIISNNLKIKGASAANFIK
GVSTGKDLSDNATPDFQDDVTVSETLNITADAKPVFHKAVSSKDLSIADNAVPDFQDS
VTTTGILNITVDAKPVFHKAVSSKDLSIADNAVPDFQDSVTATGILNITADAQPVFHKAV
SSKDLSIADNAVPDFQDSVTATRILNITADAKPVFHKAVSSKDLSIADNAVPDFQDSVTA
TGILNITADAKPVFHKASADADITITDENSEPEFKETVSSGGNITVDLSSKPVFNLLAS
SVIVQGNSEPIFNNTNGDVTILGTPTVAFNGASGGGVILPSSASATAPTLNFAADFSSN
KELVIGSGAEVNLPEPTLNGTVRFAGLIEADAKIKLGDNVILDTKISPLVDKEGRLEFL
GNATISQDIGSGGKWLKEINFNSADSNIELMGNIFSETMSFNASNIKLLNDTKITGQNS
LNMHNNSLDLGSKSLVSGKSVLTGKTTISTTFIADPPGGNQGGHIIVDGAGSSFDGSGAN
PVEIILNADSPPLSASEYEYKLFITTQNGGTVIPANNITFTSAENNSLITWRYEPSTYILT
SANEPEQLPVIVAKAGGDIEDVKVATFISNADLSDSEDATASILSNIGRLSEAEILEAVK
RIQATANFGELADNIATQISNKLGERLTALTMENKFARAGVSSGDSGDDSGISMVNSADK
YGVWMNGFYGKGRQGREHSPKYHSRMHGITLGADTALRQDIIIGLAVSGVQTNKFSNN
KIDDKIKVNSLIFSLYAHKDLSEWFIDGMISGGTNNITGKEQRILLGGKKAIAATSKYKV
RTHNGQFTVGYNKNISKNIILTPLAGLGYSWAGATKYTETGAGKQNSVTTDSTYVLEAI
FGGQIAFQKRIKNIAVTPELHAHVSYNFKTKRSLINAKLAGAKAPIACLPRTNKLFYHI
GGEINAQSESGKFEYGINYEAKLSKKYINHVGGGLKLRVNF

>gene_1185|GeneMark.hmm|179_aa|-|27137|27676 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MVKFLSEFAPLIAFFYGYKTGGILEATLYMVVVSVIGIVVTYIVERRINKVNLVTTALL
VSASLTLFSGNSIFIKMKPTVLYCLFALALFVTHFKWRPAIQYALGAAIKFKDQRAWYHL
NKRFFMFFLLMAAANETIWRNFSEDIWVNFVKVFGALPITIIIFIMMQVPFIMKHKIDEEH

>gene_1186|GeneMark.hmm|273_aa|-|27669|28490 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MFKIAVIFRECLEMAVLLGIIMAITKPIKNSKAYIALGSGVGVVFAAIFAMLASLIADS
FGGLGDEIFDAFVLLITTAICWTVVWMQGYTTKLRDLGDLQINAGTTSKIMLVMMV
AMAVLREGAEIILFVYSSSENIAVSEYVIAILLGGFVGFSLGAMIYLGLIKCTGKYIF
SISTLLILIAAGLSAQAAGMLTSSGIIIEIYSDQVWDTSWFVENASVTGKVLNITVGYDS
KPNLSLQIIFLTTIIITLAMMKLRSILSNKNSG

>gene_1187|GeneMark.hmm|118_aa|-|28483|28839 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MKKTAILYFMICALAAALPAYAGGFVEVDLIIDKHKHPETLKLPAKPKIRITVHNQDST
IEEFESIDLKREKIVLGNASKARVILAPLPGTYKFFGFEHEETAQGKIVVEQETGKDV

>gene_1188|GeneMark.hmm|522_aa|+|29319|30887 >NVVL01000053.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence

MLINIPLVLAIIVLLSLVGNLYVYRKLKFAANKTTKGILSGAEDLTYRIDALTRQNQALF
TMITEDLSSDPSKSDKLRKLCNMIDDSHNPLEEAKGYQCLAKLHLADKNKGQLDRLKAI
KNTSYALNLSHDPEYVRLSYVAILGESVDELISLFVAQSDDALQKLLSSLNVADSTEEIK
LLEKIIQLADKDVKIRAKYRLSHIYQNGHSAAESTEIPIDYIKLENRKYVFENVKTTSK
NIVNIALTFDDGYAAHASTNIASLLVNADPETHYKFYIVDGVVDVQISQENREKLSSLYI
KEYDINFITFPDEILGKIDEKYPKIVLYRIFLSKILDISKIYLDSDLVVLRDLW
DVFNTETSFISATLDPLSFRHAKLPRNNKAMCKSSVFYINSGMMLLNLDAMRGRDLAAEI
QDVIKNAKYPFNLDPQDMINFTYKDKINFISPKWNLNLLKDTGFAKHVFGTKPWVWPTSQ
DATETWKNAPQTVPEGHRRYWHYLDITPWTTKKDKLQAVISD

>gene_1189|GeneMark.hmm|72_aa|-|30923|31141 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MAISKFKSHCLEILDKLEKSSIIITKRNKPIATISPFVRKKESLFGLLANKAEIKGDI
IAPIDDSWEANK

>gene_1190|GeneMark.hmm|363_aa|+|31364|32455 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MWNWQRNDWPNFSYDSAVLEEFKAEKAGENLGAFKHVSEEEKTQLRIDWISEEALKT
SEIEGEFLNRQSIQSSICNQFGLKTDNHRIPPAEQGIAEMMVDLYENFNEALDHDTLWSW
HKMLINTRRDIQAIGSYRTHKEPMQVVS GALHAPKVHFEAPPSKIVGRQMDAFIEWFTTS
SLPALTRAGIAHLYFVCIHPFEDGNGRIGRAISEKSLAQLGRPTLIMLSYTIQQGRKNY
YQNLQSNKHNEITQWL VYFAEMVLEAQDNTRKRIEFVIGKKKLYDRLQTLNPRQEKLL
ARMFRENIEGFKGGLSVKNYINITKAPRTTATRDLDLVEKGALVKTGQLRYTRYLNP
SFD

>gene_1191|GeneMark.hmm|643_aa|-|32571|34502 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MSRTSLQSTQITPFFENELIQDQFHQYLLIMMGNDNTVAASALAEKSSLG YEFQAKLRF
FKREIQLMLQQAITMDNEVVVNMDRITDLDERFKGLMDEGFLSCIKKANDQHSAFKGVID
GAENSLEIRIILVDKIYQLISQMQUIPDLYAASYIVQQGLTTYQGDCFNFMHFIATNE
TDPRVLELLTNSWLAAGRSLSENNGTLSTTTPLNIALLDNVPFITALVERGVDITAPNE
DGTTALHLLIYQIHLGISDISFLQKWL DAGLEVDLRAKLLAQKLELTVTNLIGEGSEIV
QQTLDELVASITQNYLDKMILNGVSDIILTNFGDPNAMLLHYLIENHNTVPLSVFKHFLD
SELLVRGIIDSRKTALQHAVEMGAVNFSVAMA EHGIGTTELDNGRHII EYVHYIGGEHKA
AFVEAIKASQAIDMSGEQAAQLIADALIAKNGEFVATLVKAGADINHNDHELLKMFIKAG
ADYSDQIELAVLHGAEITGDMLELAAAHGLGELLTGLKQVQDQEAPVEMLQDGAITTIKA
LLVVMSEGPSDEIMPLLVTLRMQGLYNVLQKQPALFEQFCKQEGIWQEMVSRADARNPR
EEKSKDKENVILPSHRAEDDDGNDEALLAGVSATAETSDYPLD

>gene_1192|GeneMark.hmm|253_aa|-|34752|35513 >NVVL01000053.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23664, whole genome shotgun sequence
MADNLKFKVRSYKSFGAHDV LKGVNLDVKKDSSLVILGGSGTGKSVLIKTMIGLLSPDS
GSILYEGTESVNMPQKERLQALQNFYLFQAGALFDSLTVQENIVFFAEKLYSLNKNDKR
DLASKKLRVGLSEKILDFYPSELGGMQKRVSLARAICTDPKVIFFDEPTTGLDPIMSN
VINDLIKVRDELGATTITITHDMQSARAIGKEAFLYEGSIIWSGSIDEIDDSGNPHFH
QFINGNIEGPVIV

>gene_1193|GeneMark.hmm|64_aa|+|2|196 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LFLIENMMPKAILMALIDLKEIELRLYNHGFNIKNGKSELTLKPCTAKGILRIKQSASNL
GLSI

>gene_1194|GeneMark.hmm|51_aa|+|307|462 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MSADIIIFIGFIIFNLIFGLSSKNVTTIKGYAVGDQNFSTATLVATIVAT

>gene_1195|GeneMark.hmm|81_aa|-|660|905 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MATKKAGGSSKNGRDSAGRRLGAKKSDGQGVIPGNIIRQRGTKIRPGRNVGMGKDHTLF
AMTAGKVEFVSKRTHKLVNVV

>gene_1196|GeneMark.hmm|105_aa|-|916|1233 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MFAVVKTGGKQYKVAKDSVIKVEKIEGPLGGKVELDQVLMMSDSLKASFIGTPMVKGASV
TAEITSQFRDDKIIIFKKRRQNYRRKNGHRQDLTELKILNIVKN

>gene_1197|GeneMark.hmm|405_aa|-|1451|2668 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MYKRTSTKLINDISQTFPVLLITGPRQVGKTTLLKMCADETRNYVTLDNMEARQLAQTDP
ALFLQTYKAPLIIDEVQYAPQLFSYIKILVDREEKNGMFWLTGSQKFHLMKNVSETLAGR
IAILDLLGLSQSELNGYGDDAKPFMPTSEWLEQAKKVDTSNQLSDIYKNIWIGSFPRVVQ
NNDIRDVFYSSYVQTYIQRDIKNILNVTDETTFYRFLCSVAARTGQSVNYANLAKDVAID
VKTAKSWLSLLETSGLVYLLQPYHNNLTKRLVKAPKLYFLDTGLCCYLTKWPAKLSLEVG
AMSGAILETYIIAELLKSYWHNGKTPHFYRRDLQKEIDLIIETGDSLHPVEFKKTATP
SQTASKHFHVMVGKFGKKIGHGGVVCVEKPVPLSRAVTAIPVAYL

>gene_1198|GeneMark.hmm|151_aa|+|2828|3283 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MDWSTRQLKAKQLEKHLKSLNIRLPATGWVKTIRETLGMNVRQLGQRCEVSGERISRIE
ADELNSKLTMATLEKVAKAMNCKFVYGFVPNGGIKDTIEKQAEFKAKSQLRRVSHSMAL
DQKVSDSAMRNQIKILKEDMLQGNIKRIWEK

>gene_1199|GeneMark.hmm|193_aa|+|3283|3864 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MLFTYAKGATPLSPDEVYNLIPSHLMTQKELDEWEQYNIKAETWASQRKRADFLSTKFV
VDLHKKMFNETWKWAGKFRTRQTNIGIEAIHIPVELKLLFDDIEFWIENATYHPREIAVR
LHHRVFIHPFNGNRLSRLVADLYMDYQGQARFSWGSCNLTSDSAQRQAYLSALREAD
LGDYMHLEFSDS

>gene_1200|GeneMark.hmm|197_aa|+|4305|4898 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MFIQTEETPNPNALKFLPGVDISPETPVFLNSPKEAKTKSLLAVKIFQIDGVGAVFYGAD
FVTVTKSDAADWGVKPEILLTIMDHLVAGFPFIDEKQKQKTPKVNLDMSDIEKQIVEII

ETVRPSVAMDGGDIVYQGFENGVVYLQLRGACSGCPSASVTLKDGIESMLQHVFVPEVKS
VEAVESADEEITPSIRD

>gene_1201|GeneMark.hmm|207_aa|-|4961|5584 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LKEFDKEFSMRKEDYWKGRKEFLELNPNASLNPVVLVGEPEGESGGVVLVGTYSIIIEYMTESF
EDFYLMPKAPLERAEVRKYISWFNDKFKHREVSILIDEKMIRLLMRAGEPRSVFIRAAS
NLHQHFVFLTNLLKNSYIVSDRISYADIAAASHLSVVDYFGEINWDSWGVIKEWYSIIK
SRPAFQPILQDRVAGFAPPKDYSLDF

>gene_1202|GeneMark.hmm|259_aa|+|6456|7235 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MSSNMWGACPGITISENPQSKSMVTLNRVTQMSSDRCPPELSRIPQIEFVIQIYKSLW
QEALSYAAYNDFSRWDEYMNQVQGDLPFILTSGLQYIALRTGQVKIIAQCMWNVKYG
DDETIMSLDTFLARILMVSSTKYHVNLIVDGLKIADQAMPNHDLDMLRAFCDLAPQHD
SPEILPKLYTYALKKAVKLYESSHPPEEQAILDSDALSDETGSLLGGLLDNPECVSVEQTL
LGDASVILSNMPGSSCAIQ

>gene_1203|GeneMark.hmm|268_aa|+|7246|8052 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LLAYIILPFNLKQINTMSSAGEYRLLNAQLPEHTNPNEADVLIQPGDFVADHNTNTVDE
ALWGQALAEAARGYPKAWKNLTRESGGIPLHMLNGRNLPGIALETNDSSMLAQFMQSLW
LHEDTPGIMSFSSFLEKLLGVLSKSHINLSIEAVKMADEYRYPYCNLPENVLSELSNLEL
NLTDLNISKKNYEYTLQEAIGVYKLSYATDEFLATLTESLRNFPALVQLTVTFTTHIAH
ADQALLGAAESSLDALASDFICPCAIL

>gene_1204|GeneMark.hmm|113_aa|-|8127|8468 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MVKVKYVPDRGDIVWLNFEFQKGREITKTRPALVISSRKYNSKTNLALFMPITSQVKGYP
FEVELNFAAISGAILCDQIRSLDWKERRATKITKLNKDFLDQAISKLRLLIED

>gene_1205|GeneMark.hmm|78_aa|-|8462|8698 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MQAQIQKWGNSLGIRIPKLLSQKLNLSHSGSQVEIDVARDHLIIVKSSSELDMLLDKINDD
NRHHEIFDDDKRVGNESW

>gene_1206|GeneMark.hmm|919_aa|-|8802|11561 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MKLYQSSSKENFLEEVARFVIANFAGNFSLNIILPSGLLCNHLQKLLITKLGSTMLPTI
TPLAGLVAESEEIIFKIPSEKIGAIKLEEKITLSEVIHSYKKGYPDPAQSLLLAPSLANL
FFEFVNNITLAEKLNIPILDQPEHWHSIYDFLSYASDNWYVHMKSLHKVTRASYQKLT
RAKLEQLEKAPLDNMLIAGIAGVNMQMTDEFIQDASKLPNCYVILPPSGESSDSAPNRKFS
PEDALYKIDKLLHLINKEKAPIPALGTGEPTILNKLLTDSACGLLKQRIDYLEFDNIFHE
ANYIATQCMDALEQNPDSRIAIIVSNLQSKEQYCTFLAKYQLRYHDLLGTDIGKHNAMSL
ILLIAEHLCCFSLKTFFAILSHPLVNNNTNAQEVKNLIRKYDRLCSSLESISTTIKQHGE
EHLQYIVKLHESLSAEVKSNNKFASILRLVIKSVELLLPDLWKQNPDIASLSEIVHINW
SLALKKIDDFPELLKQIISGGRLAETTSDQNITICKSHDAALANYDLIIMADLNEGTHPA

PIHSSPWLSAHMQKELKLDSPAEFGNALYDFYLNLNQKCVLLTRACKHGSMQMLPSPFI
LQLKHILGDKLNCKTMMQAPQAQMQLTLESAALESTALESTAAQQENSLYATSKIF
PKQISATDIETLLRSPYNFYAKKILNLRMEEEEIEEKPNLAQFGNFFHEVAEEYTKNYNAS
EMDKPFAFKEIGQITLSSAPIPEHSKRSWGVKLSAIACEFVEWDEKRRQNITTIYTELKG
QITLDIKGTPVRLIAIADRIEIDKEGNAVILDYKTGAVPTKKDVLVSLSPQLLTEAIIIS
GGGFNIGHKEISKLIYVKINSSLPYIKTTEIELSKADIHNHKQGLISLLEHYVTSKSFPL
EQNLMKYDNYTHLARRGAG

>gene_1207|GeneMark.hmm|140_aa|-|11558|11980 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MDLPEIYALLFTDTLVSNFAFNASSEMVTASMKIFGTYNPYHVILIASAAFFIVSCVNYL
LGIICYKIVIPFNSKEADLSRITNLRKSRYLIIIMMLSAVPPFGKFVMLFAGFCGVRPGF
AFTGSLAKLVYYSFFMLAQ

>gene_1208|GeneMark.hmm|420_aa|-|12037|13299 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MNKRETKIFQYKRLKILAHAYKNIPLYQEKWDKAGFHPDQFRSLDDLSKIPITTKEDLR
HLHVKSIIAKNNKNEHENLRLIGSSGSTGQKLVVASSESKWDYDVLLSSAHYINKRYNTN
IHKALIMLDFGNRSIESSVERMLGLIPFISKRIKTISYKTKPAKIIILKEYQPDTIYSY
PSTMSLLCHYIEQNNIEVDELRYVVLTVSEVIFKNLRRDIKSIFNATIIGGYGATEVGVIG
YQYGDNDYFDLVSWKNIVEIENDKFLKGKHLHTLGTVLVTDLIGFTSPVIRYSGLDLGG
LIEPKRSGFPALSELHGRKSILLTSCGGAHLSPYSLTSLYQEIKSISRFQIVQSAQTID
LNLEIHEGLKGDLPKSDKTKINAFKKILGDKIVVKYHIVDKIKKDGSSHKTSVVISHLD

>gene_1209|GeneMark.hmm|290_aa|-|13507|14379 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MFNKPLISFDYAIKFLKNKEGYEIIIEGFISALFAAENYKPKITALLESESNKEKADFK
RSIADLVVEDTDGNKYIVEIERAFTPNFMHKACFNSSRLIADNLSVSQDYTKIKKIFHIS
LLYFENEEMQKPIYHGKTVIHEVDTAHPIDLRI MNQGMVTFENHNVFPEYFFISIPRFD
QINQEIDEWLYVMKNAEVKKDFKSPYMAKVAERLSVLKMDDEERNQYYKYLKESVNKEDT
LTAALEKGRDEGRKLEKIEIAKTMLAQGLDISLISKISKLSIEEIKELKN

>gene_1210|GeneMark.hmm|571_aa|-|14485|16200 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MIEKKLGLLREQLNKHGFGGYIVPSVDEYLSEFTPSFAKRLEYITGFTGSNGLAMILADT
VLFFTDGRYIEQAFTQLDDKLFVFDQKLLANFPWEDYLESDCIVAYDPKLLTMRALQSF
NSISTKPYEENLIDQQWADQPAKPSSKIYDPTKYAGADYEDKISQCREFLQENDAASLV
ITDPDVCWLLNIRAHDIEFSPLLLANAITMENLYLFTDAGRLDSELLRPDVTILDESE
FGDTLKQTSGLILFDVNTCSSYIAELIMAQKYKQVKNPCLLWKACKNDTEIMHMQQGHVQ
DAVAVCEILSFLASGDVSDLTEYDISEKLTRELRAAREGYVFDSEFTICGYRENGAIIHYR
AQAGSAKKLEESGLLLIDSGGQYMGATTDITRTVAIGEKPSAEHIKYYTKVLKGHIALGQ
ATFPEKVITGANLDILARQYLWNGRDYPHGTGHGVGSFSLVHEPPQSISLSTKTALEA
GMVLSNEPGYYVPGAFGIRIENMMYVTKSEHAHFLKFKMLTLVPYAKELIDENMLTDAEK
LYLKSYYQEINHHVSPLLSSAAQQWLKQID

>gene_1211|GeneMark.hmm|699_aa|-|16328|18427 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence

MMNSMNNTAKIEPEELSKGDARTEIKELSSKLREYNKEYYMEDAPTISDAEYDQLFHRLK
TLEEKFSKLLKPDSTQTVGSTLQEKFEKHTHIQPMLSLGNFSEEDISDFIGKIKRFLG
QEDFLPIFCEPKIDGVFSFATYKGLSIGATRGGYVGEDITQNIKSIAGLPNIIPDAP
DLLEVRGEIYIDKSDMEELNLEREANNKTKFANPRNAAAGSLRLLDYGVTASRPLKYFAY
AIGGASEKFAGTQEELLDALTKFGFRNTNPRGALAENMEEIFKFYNELLKEREKLPYEIDG
IVYKVNDFALQERLGFVARSPRFAISHKFAIIAETKLLDITIQVGRTGALTPVAELETI
NVGGVNVSRATLHNFQEIERLDIRIGDTVLLHRAGDVIPKISGINKDKRPSEALKFTLPE
ACPSCGSKPHIDPIDVIIRCDNGLNCPKQLSESIKHFVSKDAMNIDGLGKKQVEFFLERS
LIKNPADIFRLEPVNTASLSKIENMDGWGAKSVDKLNFANITKSKQVPLARFIYALGIRHV
GVSNAKILAKEFISLEKFVESMVKLASADKATFELLDNLDGLGHKILIEIGNFFECEQNI
STLKESEILKVSNYQERAAGGVLSGQNVIFTGSLSTLSRREAKSQAEKLGAKVASAVSG
STNLLIAGEKAGSKLKAQELGVKVISEEEWVQMVNESK

>gene_1212|GeneMark.hmm|278_aa|-|18424|19260 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MQLQKLLKDSLDKALQEDYGIKGDITSNSVIDKDARIKFEIKARQELVVCGAAIVQYFF
DEYSSIEYKIHINDSQCAHPGDVIISGTGLAREVLMLERVCLNYLQHLSGISTLTEAFVK
KTHNTKAKIFDTRKTTPLHRQLQKYAVTCGGGHNHRLCLDSSILIKDNHIAICGGIQIAL
QKAKQNPQPHYTKIEICDTLEQVRIAASEGADIIMLDNMSLEQIREAIEIIQDRTIEAS
GNVSLETVEALAQTGVDMISVGKITHSAPAVDIGLDII

>gene_1213|GeneMark.hmm|67_aa|+|19384|19587 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MHWSDIEDIASKLEESYAEIIIPEYNLPYLQEMVLSLAGFDDHEVEVSDITLKQTLECW
DIRNGIN

>gene_1214|GeneMark.hmm|379_aa|+|19651|20790 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LKYHIRYFCTIFKILLDFIFQREYNSESWLGARISHGELGMDKERALQAALSQIEKNFG
KGSVMKLGQRQDMNIESIPTGSVGLDIALGIGGLPKGRVVEIFGPESGKTTTLHAIAE
AQKQGGVCAFIDAHALDPVYAKKLGVNIDNLIISQPDNGEQALEIADTLVRSALSLV
IDSVAALVPKAEIDGEMGDSHMGLQARLMSQALRKLTAISKTNCTIIFINQIRMKIGVM
FGNPETTTGGNALKFYASVRLDIRRIGAIKDKDEIVGNQTRVKVVKNKVSPPFKIVEFDI
IYGRGISKEGELIDLGVKHDFVEKAGAWFSYGEIRIGQGRENAKKYMIDHPDVASELEEK
IKTKLLKPEGDGETKEVEA

>gene_1215|GeneMark.hmm|241_aa|+|20835|21560 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MTNLEGQNVFITGASGGIGSAITKQMHALGAHVYISGSNIEKLEALGTELGDNYTIKQCN
LADAALCGSLFDDIEKLDVLCNAGITRDTLAIMSDEKFSEVIDINLKANFILNRAAIK
KMMRARYGRIINISSVATSGNPGQANYCASKAGLIGMSKSLAIEVASRGITINVVSPGF
IESSMTDILPDAVKDAIMQKIPLKTLGKPEDIANAVTFLASPLSSYVTGQTIHVNGGMLM
V

>gene_1216|GeneMark.hmm|79_aa|+|21670|21909 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MNDIEQKVINTIAETLKMGEIIIISLESKLADDLGDALDAVEIMMAIEAKFDTEISDEDA

SKMATTKDIVEHIKKNLNQ

>gene_1217|GeneMark.hmm|415_aa|+|21956|23203 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MTRRRVITGIGIVSSVGLNANSSWSNLAGKSGVKLLTGFDSDFDINKLSCKIASTVPD
FNPEDYIPPRDVRKMDRFIHFHFGIAAANEAIKDSGWAPKDQEGKDRTGVMVGSIGGGFTV
ENTAASLHTAERVRVSPYFIPSALINLLSGHISINHGFTGPN SAVVTACSTGAHAIGDAA
RMIKYGDADVMIAGGAEATVPLGIAGFAARTLATGFNDNPTEASRPWDKDHAGFVMGE
GAGIVVLEEYQHAVDRGAKIYAEIAGYGLTGDAHHITAPSGRGAYRAMENALKDAKINSS
QVDYINAHGTSTPVGDGIEVKTQQLFEKNKSVKMSSTKSAIGHLLGAAGSVEAIFTALA
IRDQIAPPTLNLHNPIPEATMNLVPLVAQETKIDYALSNSFGFGGTNASLVLRKI

>gene_1218|GeneMark.hmm|128_aa|-|23353|23739 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MLKNPLQLYSLAVCLIACIVIMITSGLMLNLDLTLTKYTYKSHLNNFVTNEKYISYKK
SSNGKDNDFPANLTTEEIQTERLLARDNYIENRQNSAISLISFTWFLTGFFFFIIHWR
IYKRSSII

>gene_1219|GeneMark.hmm|195_aa|-|24065|24652 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MNNIASLPLLASGLLCSPLAGKLLHLRLQFCAILLRPAALMLFCCLAFIIASNANAAKQ
LPVPRFAAIKFNEVNARTGPASDCPIEWVVFVKKGEPVEIVA EYGHWRKIRDIASEGGVWH
SSVLSGKRSSVVTAKGTSPLEGIAEYKIVVYLEQNIRCVLQKCKKDWCKIDCKSHKGW
ISRKALWGVYPDEHP

>gene_1220|GeneMark.hmm|577_aa|-|24645|26378 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MDIHPLVTVIVLLASAVFIVAIFRKLNLSPVLGYLVAGAIIGDNGMRVVTYAQTSLLAEL
GVVFLFAIGLELSIERLKAMRRYVFGLSLQVLITSAIIAGIVILLTNDYNAIIISGG
LALSSTAIVMQVVAETKNKSTQIGRVALAILLLQDFVVVPLLIVIPILGGSSEVTGSLPY
IVGNSMLKAFVALVIIFIAGRVLLRPLFSFLVPENSEGGELPIAITLLVLTASWGTEHF
GLSLALGAFVSGILVAETDFRGKAEESIHFKSLLLGLFFMSVGMNIDVMEIYNNITTIV
SLALALIVLKAIIVTALCILFGFNIGVSVHAGLLMSQGGEFALFGLGKDYGVLDPSVA
TLLLVVTFSMALTPALASIGQKFAENFERKRGRTPDQILEFGAQLTNHVIIAGFGQVG
KMVASVLDAEGINYIALDTSDDLVEETANGLPVFKGDATKIRTLKAIGADRALTFVITI
NNESMVKKISTIIHKKFTDLEMIVRLKLNKNSAELYAIGVNTIIPQDYETGLQLGGAVLK
SIGVSEYEINRVKGQFRAGNYVAAKREDTLETEEDE

>gene_1221|GeneMark.hmm|119_aa|-|26416|26775 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MKEDTENLKDFILECLKGKATQIECMELNVAVPFADYMIFASGRSVKNIRAI AEHVTLQ
LKHEMNLNANFEGAEGSDWVLIDAGDVVVHLFHPETREQLKLEALWKRRNSDASSGSDG

>gene_1222|GeneMark.hmm|214_aa|-|26783|27427 >NVVL01000054.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LVSEIAILNFEYIFILMKTQNITNLQGLSFMHRASLKVIGLGGTFDPAHKGHLMISNLA
LKYYNFDYVIWLVANQNPFKQTNKRDIFARGCDAQKIVTNPRIIVSSAEHDLKTRYSYDS

LNKLTQYFPTVRFSWLMGIDNAMNFRKWYRAQDILELCNVMVFDRLVQKRLVNLQSIGLM
GKAMVAKNERKAIIRDALCDISSTQIRTKLRA

>gene_1223|GeneMark.hmm|78_aa|+|27408|27644 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MAISETKLTILQQNFPNAKVKITDLAGDQDHYALDISCQSFEGTLTMQQHKLKALAE
VLLSGELHAISIKTRSDV

>gene_1224|GeneMark.hmm|306_aa|-|27708|28628 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MLKRVSLATMFLLLSVILSATEADARKRREKIIPAPTKTSLVVDGKSGRILHSRNARKK
IYPASLVKVM TVYLIFESLESGRLKLNQKLYVSKYATKARPLKLYLKPGRKISVRDAVLG
LIVKSANDAARVVAENIAGSERKFARLMTIRARQLGMKDTTFTNASGWHDPKQVTTAVDL
AKLSIAIKRDFPKYRAFFSKTSFRFEGKRIKGHNKLTATYPGAEGLKTFHTPAGCNLI
TTATRGNKSLVGIVTGRKNGTIRNRKMMVQLLDKHFVGVKHNTIKRKGKIKTRKMKLADRKK
RKSRRK

>gene_1225|GeneMark.hmm|808_aa|+|29063|31489 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MTHSKVAQIALLTILFVYSCVASAEIPGLLDTEVSNGLSVEGDIFDFERRGSDDDDSDDY
DFSDDDFDDGFYHTNSNPPALPLHQGNWNTWRGILNFEGDIFRFEESFRDNDNSDYDNI
QVAAGQTLQVVYDENLIGYGAIEDVNLKPNNIKGRHLRLVLDLRTGTRGVPRIGTRGIQG
AGNIIFEGKNRANCWLGSQEQLGFIETRGDTSFVDEIYAQHMSFIGRTTMYSRDINTSS
IVLKNAAEAFLRGAYNPIETGIGNVIYLRGSRGKIIQSTRGDFVENTISKDNNLSSS
GTLYLIAETGKETEMTDNIIVSDYQTLGEGTVILNNGYSLTIRGNDLAPLLVDHKSVS
ISAHGNTSQNIFQTTSQLAKEPSKEPTYKEPTYKERLAEAIRSLTTEITDQEKRMASN
KIASEFMQLNLDTEEKVAEYSLTAEQVAELSPGAQEAAYMGEATKSQQTLDDDESATKSA
VLDANNKVAESSKVTLGAVSSRIGELFRSQHLANNTSGTSAGDDGFDIKKGVWVSGIFA
KNFQKSDENSSGYNSKITGVNIGADAQTENILIGAFYSHVDALVKFNNGSAKGSRLDAKS
NNWGFYTNISLTDNLSIQAIISAGFTKNSQKKIGALIAFSKPRNKTYSTKLLTYHKAL
NSSFAIIPKIGLKYSYADAAAREIRSGVQDLMHAKKSSSNLSAILGTELLMQKRISDSI
TLLPSINASIHQTLSENRSKSKTIFAWGKDNFQFDHATRSKHSRRTTVNIGAGLLAKINN
IELSADYAVSLRRKYIGHQGFKTRINF

>gene_1226|GeneMark.hmm|770_aa|-|31714|34026 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
MTVEKNTLPLLALRDVIIIFPGIIPVFIGREKSLKSLCAKNTGDGQCILLVTQKDQASD
NPKIEDLYEVGVLAIIQTIKLPNRNAKILVEAVSRVKLSNISGKDMFMADYVVLSDKGS
KDPKALEATLRTAMDSFRDYAKDSQKISTELLQILSEQKDPTYITNISSHGCKLPVKQ
GLLEETDILKRAEMLVEAITAENTYIHTENSVQKRLKQIEKNQKDFYLTEQMKAIQNEM
TGDEGKSEFSLENKIKLNLPEAKEKAMSELKLLMNGASAESSVVRNYIDTLCMDP
WGKSPVKIDIKNTEDVLDKDHYLEKVKERVVEYLAVLKRSDKIKGPILCLIGPPGVGK
TSLVKSIAKAMNRKYAKFALGGVRDEAEIRGHRRTYLGSM PGKIINLLKSKVDNPVMLL
DEIDKMSSDFRGDPTSALLEVLDPEQNSHFTDHYLEIEYDLSDVVFIATANSYDLPRALL
DRMEVIDISGYIEEEKMQIAKNYLVAKQLENHAIKASELKITDETLELIRYYTKESGVR
ALERSIGALARKVLTKILKNPDIKSVTIKPEDLEEYLGVKKYRFLAEKSNQIGVTTGLA
YSEVGGDLLSIEAVSFAGKGDIKSTGTLGDVMKESAEAAHSCFLSRTESLGLKAKDYKDI

DIHLHVPAGATPKDGPAGIAIYTTIVSLMTKKPVSKDVAMTGEITLRGKVLPIGGLKEK
LLAASRGGIKTVLIPEDNVKDLKDIPDNIKNQLKIIPVSTIEQVLENALV

>gene_1227|GeneMark.hmm|351_aa|+|34048|35103 >NVVL01000054.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23672, whole genome shotgun sequence
LYIKSLINYIIAWHYVFKIDYKCNISNYKNKMTCTIQHPEIVAKAYARIKDYVHKT
PLWHSDSLNEKLSQIYFKLDSMQKTGAFKIRGVLNLLSLKELGKLPKIVAYSTGNHA
IAMSAAKLFDIKARVYLPKNVAPVKKRIAESYGAEIIEVATRKEAEQLSNRDGKAGYHY
LPPSDDATIAGAGTMCYEALVDMIELGKKPDAIFAPCGGGGLLSGTYLAKELLSPNSEV
HGVEPKLANDAYLSLTSREIFKFKDAPETVADGLTTPSPARTLHYLKKLDDFHLIEEEE
IRHWASRITEMTKVTCEPSAAISMAAAHSWIQTHGKDKVVLVITGGNVDI

>gene_1228|GeneMark.hmm|30_aa|-|2|91 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MATPQTALNSGQPTLVPDAMQATSMGDILA

>gene_1229|GeneMark.hmm|463_aa|-|122|1513 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MAGQSLTSILPALGFLDAVVQDNTLAREFYDALFPELLYRAEAVPERWEANLGERMVFTR
SSLLSASTSPLTPGFDPAPESPAYEQWEVVAQYKSLDTNMPASRTALASLFARNAKTL
GLNAGQTLNRLARNKLFVYVGGSTLTTAAGVAITALPVSSVNGFGTVIVNGQIVPVSGT
NPKSTTVSGVAGTVDVVAATPTNPLEPNPGLTAAVATWAIDAVVTASDAPTILRSGG
GTSVDSLSTDLTVQNRDAVATLRRNRVPPHEDGYHCHLDPPIAESQLFADNEFQRL
QSLPDDFRYQRFAGRLANCVFYSNNEPNSQNTNTLVATRGSFAFASPSLGTEVINDAGV
AIIRTIITGGSAIMEKWVDETAEYASEAGYQKVGAFSVVNGIVVPIERARYIIRAPQD
RLQQIVSQSWSATLDFGVPADLLSGLTGARFKRAVTIESGSAL

>gene_1230|GeneMark.hmm|186_aa|-|1532|2092 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
LGDLMKDPVIARELAAATKRQVDAVDAREKELTQAQERSKMEETERLRAEKADDEEGKRI
KAENEASDLKIDSEFATCFKSGVTLANPQSIDFIKAEARRTMDAEGLSMDACVADVLSK
HQYLVTQPQAPAAVAQQLPEVLATTVPPAQARHTETPAAPAPQIVVDTRGMTSQEYRKYR
QETHGF

>gene_1231|GeneMark.hmm|90_aa|+|2094|2366 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VSGGSSGAVVGAGAATSATTGGWGCAGAATSTGGTSATGGGATGASGGASGLGFGVGVPG
TDMNGGYHPHWSGRNATYKLSAPVITPLGS

>gene_1232|GeneMark.hmm|141_aa|-|2638|3063 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MAGITVTDGTLSQLQADQVPGCPPPGADLITFPLALFEQGLTGIAGASGSEISQGCFTI
NSAASFVTLAYPASLRARIFYLRALPGSGALDVRLLTHSVAGAVTYPDQYLMLVQFSAVEQ
LTAIEVQGVGSFAWAAVGVLV

>gene_1233|GeneMark.hmm|335_aa|-|3256|4263 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MCSVVADCPTLGRLEKLDNVRLHTMHEFDHLLVDGRNMLYRAAWSNQMLTHRSPLTGGVF
GFLRTLAAAYRDFGCPTIQVCWEGKRNWRFRFPAYKGNRSRGRPRDDTGFDCAAVASQQ
PLLRELLALAGIAQWRTPDGECDVLYARGEELAADGETVAVLSHDRDMYQVTTNPLCSV
IRTDKDGDWHVVDRTVCEQELGGPPEKIPALKALAGDSSDNIPGVRGIGPKIAAKLMVPH
TSLSELLSSARSGERWAGSARQRSQVHDAEDVSIFEEIVRLQMCELELSPEHHYPEKVD
LQAALEDLGILTAAEEGPLALCSMGGTQLFGEKH

>gene_1234|GeneMark.hmm|67_aa|-|4559|4762 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MFPKNTPKPRLTVLTKTTLRLTSAEVLALILAAERVLGHTIDSDASVSLYEEGATIQT
ETEDDGA

>gene_1235|GeneMark.hmm|172_aa|-|4780|5298 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MRLVGICGYSGSGKSIAAALRQDGFHVYPMAQVLKNMLRAFGLSEAQVCGDQKAVELDL
LGGKTPRHAMQTLGTEWGRDLISHDVWLKAWWTWKVHIPAVVCDVRFVGFNEAEFIRAQGG
RIIKIHRPLGSGALPQHPSEQLAFRPDIEIVNVGTVPPELHKVRQALVNAGV

>gene_1236|GeneMark.hmm|125_aa|-|5286|5663 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VNAEFLPKYLALVREHNKLHNPQPGEQHTRLLRSILGCAAESGELASAAMQSSISNNCDID
PLEALDEFGDVLFLNLRGLDALGFDLELAMMANSSKLISRALRGKNKPSERRVLENLVSE
VACDS

>gene_1237|GeneMark.hmm|227_aa|-|5683|6366 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VRSPFKLAAFLKYAGGKWATSHRYPKPLSRTIVEPFAGSAGYSVTHSNRRVLSDTDERI
VGAWDWLIKARASDVAALPLLAQDERVSDLSLPQEAKWFLSYRVNIAAGPRNTATRWRMW
NARVRRRIALQVHRIDHWRVYHRGYADADEGPATYFVDPPYQEKSFYREGVADYAALGAW
VRSLSGQIIVCEGPGASWLPFRKLLDAKTHVNASAAKVPELIWYRCQ

>gene_1238|GeneMark.hmm|212_aa|-|6363|7001 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MPRKSKPTTFDYIVPQLQSLAIPADLEFDTKNTRRHGKKNVEGLRASLQRFKQYLPPIV
QEEGMVIRIGNCRTQAALDLGWTHIAAVVVPESGVDAVARAITDNRLGELGEWDWAVLTE
SLQEQELGLDELGWDPEELSALLETFVSVPEVDLDDPEPPQDSSAPGESSELGAGSSDKQP
TLTLGVEASKVLRASAGRADLSPDAYVLSLA

>gene_1239|GeneMark.hmm|84_aa|-|6985|7239 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MPHDNLKTKWPPGTSPQLQLFSALVTRIGLTNIKGVAVFVRYVGDDNDGGVSTQNAV
FTAGAEVDSVYDWMKEVTRDATQE

>gene_1240|GeneMark.hmm|94_aa|-|7221|7505 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence

LITDPDFPGYPVTVIEYVDATLNPDCVWAFHVLVLRGWASTLTAHAVKAADDVTPQQ
PERACVLLQAAERIGRAVQDIEAAKGYVPCPTTT

>gene_1241|GeneMark.hmm|248_aa|-|7495|8241 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VGCDIHLNLVKKVGDWELLSPPLNEESKALYPNHSDYWHAWPCDQRSYDCFSLMTDGQVR
RSDDPVLRGFTAPRGWAGVEAQFGLIPDPDDPSWRGWEVGDHSFSYLTLDGFTSFRSAG
GWERFTQARNCTCTAAGVEAWWAADKTPSPWSYDHRLPTGVPQRGRVAEEFIRKYIDTTS
RQQRAVDNTQARLEGYTGGHLDRYVVVTVSETVASRCSGLLELSELMAQYANEPGTDDV
LLVFSFDN

>gene_1242|GeneMark.hmm|76_aa|-|8587|8817 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MTTQTDMLDTLPGYVFWYAPHVPHYPYRWAVAQVPNGYEKRHGSHHGGASTQALALVAA
ETHASVVAADGFLHPA

>gene_1243|GeneMark.hmm|69_aa|-|8830|9039 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MGLGIVGALIGEAIQLGDLRAALAAALRDVAGKVERGELVSDDEIEALRGSTGRIREM
LKRAGNNSS

>gene_1244|GeneMark.hmm|133_aa|-|9040|9441 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MNHALHIVFALVAFTGCAGTQRSHAIRVGHIAKEVVDAGAVAVKAHIDARASACAPRVDD
GTKALTDCLGPIASHPDEVDGAFAAARAAQLGVYLAVSTDASP AEIKQARNDLEAALRAV
VALIQSVAAQEAE

>gene_1245|GeneMark.hmm|186_aa|-|9480|10040 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MITPTIFGCDPALTTGFLIDAAGDIATFGHWCNKAPHEGRKAEDRPRRDQIRAHTFAQQ
LRRILDGYPTIERLAYEWWKHTSTAQSQLYAGWRALLAECHARGIDVWPVAWSTLKS
V
AYEYAEPSEIAQVKATKVKAEERRLASKALIIVAAKRRWTNAPFTEADGLWVSEACRLG
RGGGKA

>gene_1246|GeneMark.hmm|536_aa|-|10037|11647 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MRVKNLIVQGLTTHKATDIALPSQGLVVITGDNGSGKSSLVEAVSLCRFGKSLRGTDLWA
GPGELVTETYDGVTYRRKRTASGRMTFKTDGGPEYQTATRAQRELGGDHKLWMRSCVLSF
DDVVSFTRATDSERKKMLEGVLGLQRFDAALQQVRGELVTARSAHQLATHAVDVAQQQEH
AAAGVLSILQAQLGEGAPTSDEPVARNVTSAVVDAEEARDDEEVTREQATKCREQSSAL
GARIALLGNQIGAEGDAECHACGRAFDNHRPDTIAELVEQRRELTAMRDEVIMEGKKWLS
DAEKHQKNAEVSNRKAECARDDLRAHGEYDARCSRLQTKIDEASVKNNDAGQHVATLRVA
EDSACADTSVLEAAEQVLGLRGFRSHVLALEGLEISANYWLERFSPGVQVRVRPTREL
KGGGTSDEISVEFTGVGGGHGYKGC SRGERRRQDVAITWALGELEAAASGHAESTVWCDE
PFDALDTQGV DALVSALTEVRERRCVVISHSADLVEALRPDMHYHVEDGVVHRRR

>gene_1247|GeneMark.hmm|138_aa|-|11595|12011 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MSTDQERLNHLAKVVVRQGERINQAIEQWVTQREAAAPHSDKAELNGRIQAAMALSNGLR
DDLESLMSISDVYVIAGKEVPEASLAGMSELDTRRKLITMAEAEMWQSKATELAERGG
RDESQKSDSPGSDDTQSN

>gene_1248|GeneMark.hmm|901_aa|-|12008|14713 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MPETRLKLYNPSTSDPEDLLHEEERVERSSACARCDLHSKAQLVGASADGQAGLLVLGE
YPHADEAKYCKGRPFWSKSGKYVRRQVAAHWSGPVVYDNAVRCPPQKVPTDTQTRKAADA
CRTFTAGILDSSQPERVLIMGQSLQTLFGRGTYPRVRRGYQWLRFNGRAIPVFFLPKLN
PTFGNRLLMRNWQEDLKWALTATPEQPPWETSTTMVRTEEEARAAIEDLADSRCAIVDVE
TYGDPYSDDFVVLICISAGRLDNDTTYTWSTRRKDTEAIGPILLELRNPSVGLGGHNFKFD
VVALEQYFGIECEGKMVDTKLLHRMLDCTQQADLNACSDQVCGGKHAEAHFHVEAAVKL
IRKHRRRVKDLGPDCLYPARLDLATGLVAAEPTIPDRDRAMFAHAVAMWDHHPKKYAYA
FMPRDVLHRYCARDVMATGRVWRGLWRELCGTPDVRLAWEALVQPATRTFSRIERNGIYV
DVPALDAFRDFLAVRETQTAIEISVHSSKYFPEGFNRSAPQLQKLLFEDLQLPVVKRTP
KGSPSSDAEVLKELKGHHPIVPLLEHRTITKLQGTYGDLAPHVASDSRIHCNFNITGA
ATGRTSCTDPNMQTIPTKGEYAKQIKNVFAAPFGYKLVQFDFSQLELRVAAMLSKDPVMR
QIYVEGRDYHDETAAMIAPTAWDVVFEKATDEMWTQDPVRAQLMDDIRRAAKVVNFGLLY
GMGDVTLAKATKTSVEQAMAMRKAIYGKLRVLEAWIKQCVSTVRQRGYSSTWWLGKPARR
RYLWDIAMEGASDHASKARSNAENGAYNSPVQGTASDYCMASLNAIDAYLRDEGIDGKIV
MTVHDSIILEIADAQLREAVPAIERLMTQWYADGVPLTVDCEVGQTWGALKDWDTWLHEA
A

>gene_1249|GeneMark.hmm|396_aa|-|14706|15896 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VKVAIIADVHVGHNHRLFSGPNIGGLNERARDTVRVLGAAVQSAWRDGDADKIIIAGDLFDT
DTPTPAVIAAVQLAITWSAAWDHKARMVLLNGNHDMTSTAPLHTALAPLQCMRGAIIVCE
PCSFHDADQGDVVLVPYQPGPACEWLPEAVEKALTTLSPTLTDYNDTSLAGTTPRSRLVL
HLGLEHKGTPPWLRGADDSIHIDRLRKICLEHSISNVVAGNWHGAWSENHGGITMRQVGA
LVPTGFDNPGVEPYGRVWVWTTQEGFTSDTVMKGRPFMKFTDIKELTAFETDVRTDPKYG
HDFYVHAQLPAHEWVWGGKLLDRLSVESLIRGFKTSKQPAEVRARAAQAVGVSADLSSLG
AALFDYIAETPLPEGADLARVHQHCRLLKLEAEDA

>gene_1250|GeneMark.hmm|332_aa|-|15893|16891 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MKDMV GALNAGKDAPGASVLSKGAFRSEPSGFIPITGIEEVDKYVLGCGGLPLGRISEVYG
APGAGKSSFVYSLRQCQLMGGIPVLIHTEEAQKSRLVDTFHMDPDNICEPRDMEGV
VDALQRLVLPILKSRANKPPVLCWDSLAATKVRGHDEASKGEGPAKRARILNAALRVL
PQIIAEVQGHFMIQVQREKVGVMFGSPKTQPGGKAPKYVSTFRLELTYVGVKVPAPHT
GIEVKIEATKNKMAPPYRKLTSRFDVKGWQDWGVLKLAELKLV PATARSVDDARAKLD
EISWDPNAPVPEEKLGPAPDEVWDEEVEEES

>gene_1251|GeneMark.hmm|300_aa|-|17052|17954 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VLRELALFAGAGGGLLSKLSGHRTVCAVELDPYCRVLLQRQHDGWLDLRFPIWDDVRTF

DGRPWGGRCDIVSGGFPCQDISSAGSGEGLAGERSGLWFDMLRIIGEVPRPRFVFAENSPR
LRTLGLGTVIKGLASLGYDARWCVLGARHVGAPHRRDRMWILAYAQGERPQEGREVQRDR
EVQNLGCDGEAWLANANDTGQRVRAIDGETLRPLPPVARLGSEAVANTHSEILREQSGRR
SGASTAVDRGALQTGWTPAPIARMDDGMAHRVDRTKATGNGQVPAVAALAWATLSAGLV

>gene_1252|GeneMark.hmm|73_aa|+|18047|18268 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MQETRTITVELPLVVVELEVTLDPDGFEATVHAVRQSTGAPNWSPCDVNESSVDVLEEI
DRLAREAFAPES

>gene_1253|GeneMark.hmm|299_aa|-|18265|19164 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MNALKNYADGWSEADVNKEVEDTKQEKSDESDFLAIAPDTELSLRAMPNAKGGSPFVKFA
KHFYQDPTTGKYVGFACPAKSRLAGFQQYACPTCEASARMRKSRIKADRDFGYKMKAKWR
ALINVYVRPNDAAVQAAMDDGVDPPKQGMKLWEISSWVGEKNGKNMHERLLALRNNPRVG
GNYVDPSAAGFDLLIQRQGENINTRYEVHALLSERKPLLPDAAAQALIEDGQLDIAWYI
APPTLEELSQILQGEKRGKKSQAVATGASSNPQLPAGGETAGEVIDVEDVGGDTGAGF

>gene_1254|GeneMark.hmm|167_aa|-|19161|19664 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VPTIHDWQVEAYLHESVSLDRTDLNREFARVSSDLAYWGEKYAQAERCHAEAKAEHEQVQ
ARLYRQVRVLEADAAKASAAPTKKAPARVTDHVESEVLTADYAVAYQEVIDCESAK
TRVRMIIEAVKTKRDMLVSLGAQLRAELRGEPHIKDPDWDDWKKTTP

>gene_1255|GeneMark.hmm|326_aa|-|19668|20648 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MKFNYDSDTGELCLEALLAPSQAATIFEMLSTMGAAKDPMSDALRPAGTPPTQRQRQMED
AADLAGGQLTVTHACGGEPVLVSKADEPLGVPATAAPVPKVPRRTKKKPPTNKPQAKPKS
KAVEETPPETPQAPEKTPAKLAAEDEDRAEHAQRWRGKNLFKDELVVGFAVIGADYTV
VLELESGEKVVLDSDNEIKRVAPTSGLPEHESAAGDFRTGDTADAPPQAEPTTQPTAPP
ADMPQGVARAQVRAIVQPFVDQAGGGRGKEFALGVVNAVVKCSPHIAKFEGMEASEVRK
RVVQVLAVLAVINHEELGEMKAEMGV

>gene_1256|GeneMark.hmm|316_aa|-|20660|21610 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VTQGFDRDGVKGNVREQLAAVQAAFEQYDGGTGGEDARVRCPLCIDRTGKEDLRGCLSVN
LDNGFYNCFKCEAKGRLEGYSEWDYRDREPVVDRPVMKLPYDFVPLIKDYEHSILYRASA
LYAFSRVRDWQTIQDIGVGLAGGRLMVPVRNNGQHLGHVARSIPGQVPAYLPDTKYVYPK
GFKREHLLFNEDALDVRSEYLMGEHKGLPVVVVEGVFDALPHWPLAVACLKPTHQAQER
ILERCQRPVVVMLDGDWELGKSLAQRLFKLGIEASWVKLPPGQDPGNYDIKVMRRVLT
AAGKPGQGFLIRTTDDT

>gene_1257|GeneMark.hmm|464_aa|-|21607|23001 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
LVVSRAGMQDANASHLSVPIGHTVPRPYGLPKPLERSTVHWCTRSEDFWYSVGHVLEPAG
LGEACARTVLEHCIALHRADTVPTDAGVLSSMVMLRDRGRILTQEVMEDTVDYLDLIEGSA
MAEEATLQAIAPVLRRRKESEVVDALIKAHAAHQPLDDLVDALQTVQLIGTTDAHPGMFL

DQDV FARIDRLRHVERMSLGMKELDI AVEGGLGRS QL VVFMGKAGDGKSMALINLAAKAI
CSGMNVAMASLEEEVW TARLLANLTGVPTNDILKGSWRDASQRLRELQEGVGLGRFAV
KWFPPRSTKWSEVKAWYARVREEMGGLDLFGSDYADKILSDGRHDGTYGAMGEVYEEHRL
AAVEWGCWAATASQKSGVKGKADVDDASDSANKGRVTDMMIDLEALEDGNEMIA RVIKN
RHGPSRMEIGPFVTDWARARISASDVHAGSHAIQAAQPDFGAGW

>gene_1258|GeneMark.hmm|254_aa|-|22995|23759 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
LALTPPRAAVSGSERQARPRSTSADWDQLKAALKSPSEPIRPVSAELFYREVPKLAED
LRLAQVPRPPKISLGTVSNTHAVECALWLKAWIYQHYGTAIRWTRRTRFDKRRNWKAMAD
GIVLLQKHHSAPRWISFVSQMPVVTESVTAPSCAQIFSRGIVTSQLDYCRRASTELGGR
TVMTPAARKLAHDHSM MVQDLRLTRASEPPAIRAIVARYFPGGSFARRVATVAAEADHER
EGMSKALTEVTWIW

>gene_1259|GeneMark.hmm|621_aa|-|23963|25828 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MWL RVNNLYTTIAKAEVQEIQLWNLFLSYEDSARERAMGVGTVRLLSKRHRFP TGLVPL
VEKHAKAAGFDVKRIDTRQRPHPRNWDEHLADAELGWLKTRLLDGRPYQFDAIVAAIKSG
RGIIRAPTGCHARGQKILMYDGS PRAVEDVRPGEYLMGPDGEPRRVAHL CRGRQKMVRVV
PKKGD PWV VNL DHVLT LVRTNDDTSLAGKLV D VRVRD WLDWSRTKKHVHKLVR CAGLPRK
SSVPGVFTEDLNQFGFTVEHLPEDDYFGFTLDGDGRYLLDFTITHNSGKGEMVVGICKA
IPCKWFLVHRSHLAEDIQQRWEARGDGS GHTWLGRGNWELGDRVSFCTFQTL YRALS NP
ECRNALQHVQGVVIDETHVLPAGSFMEVSEAMPNAYYRIGLSGTP LDRGDGKSLMAVAQT
GSVVYNVTPRSLMDAGFVARATVRVTEVKQKGLASRTWVAVRKAYIAESAVRNAAVLRD
VLACQKPAMVFDLLSHGRILRDAIEQAGLTFEFAWGAASKANRAELVQRVRDGDLDLVV
ANGVFREGVDIPSLASVVYACGGKSTIQVIQGAGRGSRV TANKTEFTIYDYLD RGH RWLE
GHSDARVRIYTRYGYSVLSST

>gene_1260|GeneMark.hmm|61_aa|-|26082|26267 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VSIAAQMAAQGYLTISGAADRAGVPYHTMRNWMFKGLVASKKKAGKSYISLTSIEVFLAE
E

>gene_1261|GeneMark.hmm|223_aa|-|26264|26935 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MTVDHITASSLPRLVTP LNTIRDAPRNSNVMPVHKYAALKKFIARNGLAQEIVVYREDPT
SSEWVITDGHRVRLRELWDPSSVPCLDASGLTTVERIELTSLN NNRGQLDLSLVST
EIDFLEAGRELVDLVTGFTIDELEALSGATLELDEASLLDDAMATEVARDKPKV FVL
EVTLATARELKLAKGRLRRAGGKGNRDLAKGFRAIAGLDGDDQ

>gene_1262|GeneMark.hmm|211_aa|-|26925|27560 >NVVL01000055.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VARVMTAIHIAAVGSVVRDIAEKFAIRSHRGAQGVEDLVQEGWLHALPAYQSYWVKCEPQ
SVKGLRGWVYRVVYVRVSMYMWKTGIPVSIPKKAIPPQVRYGRVGRTRLLSEDPDWQSG
GVDTDRCGIEEYARTQRRDAVDVAMGRV LMDYPLARLPLKQALS VRVA AKLLGKPELLP
ELRRQTAEARKALRRELEPYREPYRKT FNDC

>gene_1263|GeneMark.hmm|286_aa|-|27561|28421 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MTDIHPSTTVRNDVSAVSDGQSTGCIVYWLSGRVPATELLTALEDMADIPPESGPKLAG
EREMLARAVKIVAGRREVLLDSCRGDFQLVYREEPDGGASTPVYSGKLRVHLGDDGEVV
YSDSAHPLCAEISNEYSARRGCFDTREISVWLTELLDKSHAVRMRPRGGFYYPGARVLQ
FRAAVMALRACSEHVVEIPAMSSRETAEAIIISALRHEVEAATQRAQELMEGSPGKRARR
THLAELVKV KIKLGAYA EFM DGTLDG VITALDNASAVVSQTLLEGE

>gene_1264|GeneMark.hmm|410_aa|-|28459|29691 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VGPTPPQSKKTMANQSSIVKASLFTPGLNGRWGLPLIAWGEPEGVAKSGMIRDIAHECGLG
FNSTIASICEPADLAGYPIPNEERTMVNALPPPWIHKVNMMSGAVQLFDEATSCSNAAHA
ALMRITLEGKAGDVDVNPRVRFMMAANPVDCAANAQELAIPLANRFGHLQWDPGDARAWV
EWLLSGSEDNSPPVMSALAREKLVMEAWPEAFADAKGLVGAFISERGSVLHKMPLVDAGE
SSLAWPSRRTWEMATRAYAGGLVNGLTPAERHLFVTAFIQGPAGEFIEFVKNVDLPKAL
DVLGKVKFTHAPVRLDRTMAVLSSCAAYILSTHTEEGSPEHDQWLSHVDAYWALCLHVT
EAKAAELIIPSAKMMVLKRWDTRLFAGNKSNAFAVMSRIEPLITKVIKVA

>gene_1265|GeneMark.hmm|456_aa|-|30375|31745 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MARRSRSRQDTSGPGFKMSVARAIVAEKAPYFGTVLYSMYPVKVDKIRRKVRKGGQLCVE
ESDTFGVTEKGLLIYTEKALNDWSEDNLVFLAHETMHIMLEHPSRAATMGYDAALYNIA
ADIFINDQLRQGNWTDWPATICWPETWGFDSGLLADEYYHLLQKRAEQQEKKDQRSAEG
PDSKPGVEVDGEPDLTEMGEALNGDAFGHCGSGAGNPLENEGDLTEEARAAERSPAEMEAI
RQQAEEELADHIRRHPTIPGGLERWAAAKLGPVKVSWREHLRRASRRAVQWVAGAQDYR
YGSVHRRQAGFGWGPRSIMPTMVAPVPTVLLAVDTS GSMGAD ELGIALREADGLFKSMK
CQITVVSCDAEINELVECRNWKEAAKSLKGGGGTSFHPIFEMVDRMNP KPDIVVVATDGG
GPAPASAPRGYKVIWLLTGEYSQSPCDWGFHIKVG D

>gene_1266|GeneMark.hmm|98_aa|-|31745|32041 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
VPTVQHWLQMVHTHTQAPPHSDAGRFDTTIGSETEAERIGKLVGARM LDGDEATKSILLEA
ARSQGLSIP SVMHTARYTVRVAR IQAARARARVRLGGA

>gene_1267|GeneMark.hmm|78_aa|+|32113|32349 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MDKKTPEILLEARES LAPGYATDLLLAFVEYLPENRASHKELEPTDAGDLFRTLVL EEN
WSVKKARAVYDAAYEVVS

>gene_1268|GeneMark.hmm|289_aa|-|32467|33336 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence
MVTHPTPELLEAQHEHLAALS DKAARAARRAVARAMADLRRGIDSIPGADYGGWTTATR
QAMEIQLRAAMAQLTAGTAQGMATVHVHAVKRSYVDAKRWLGS LDRKFIGVAKPLRFDLA
AHVADENRFLIDRYKRSLSYWGQTTNVMRELLADQALVGQNWADA AKHLKRKIPALAGK
KLWMVERVAATEMANAYNGTAWRVLMEQDKPHDRMSK KLVATFDKRTARDSKALNGQTVL
VDLPFINV DGRGYMHPPNRPHDREVVVGWRKSWGNHDDL LGEIASLDVT

>gene_1269|GeneMark.hmm|45_aa|-|33336|33473 >NVVL01000055.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23701, whole genome shotgun sequence SAKPPATGTVKTKKKPSPKAPGKKKAPGKGSQAQGSSEGGTSGDS

>gene_1270|GeneMark.hmm|362_aa|+|1|1089 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence NMKLISFLFTVLVNLNIAYGFDISKDILDKLDRAIHNNPNDAAYNHAATELNDSHQFKE SIKVCQKALKIDSKDAFCYMEISRSYLELGKKSEALKMVEKSIKLPNINFALYQKIFVL DSIKPKKELVKLGYKILEKNSDKLAYIVLIKSLAGLGKKREMISAAEKYISYHASVV NYLNLANAYAEIGKPDEYLLTIEKAINLDQSDLRPLWFKIQALFHLKRYVEVIPVSNKFL KLQPDNTGVLAFKADALATLARYEEALNTYNIAIETKPKNPTALYLCKGLMLHKLGRLE SVQMYNKVLRDLPKNVSAYNNLGFVLSDMGQNKAAEMEAYEKGLKIDPNNQLIQANKKILE SK

>gene_1271|GeneMark.hmm|456_aa|-|1181|2551 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence MDTIFAQCSARGKAGVAVFRISGEKSIESLEKLIKAKTSKLRQLYFRKIYHPVTKQLI DEAMVVFFSGNSSFTGEDSVEIHTHGSLAVIKMLNEVLESMPDLRLAEGGEFSRRSFLNG KMDLTAAEGLADLIDAETELQHKQAINQLGGGLEALYEQWRAELLALISLLEAYIDFPDE DIPEETLQVVKSVENLINKIKAHLDDNRRGERLRSGKLAAILGKPNVKGSSLLNYLMRR DVAIISNIAGTTRDVIEGHLDIGGYPIILQDTAGIHDGSSDLIEIEGIERAKKISQNSDI KIIMYDIAETAGLRALEEKDNVDYFSQLVDENTIILLNKT DISEINETTTSPSIHQKTP I KVSVKKNMGMENLMNSIISIAEKIAKPSDSPQITRARHRVQLEQALESLTRFSLNDDLVL ATEDIRISIRALCGITGKITVDEILGEIFSNFCIGK

>gene_1272|GeneMark.hmm|1603_aa|+|2645|7456 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence MKKNSNVKSLYLSQLNCTIADISSEILDVKGDKGGIYTKFVRNFKYIPIDYRSKDK IDLFGDFTHEAFEFFKNKPAGEHKVKIFPNKYRNDPAITILIAAENRPFIIIDSLNSLSMSK LALQAVFTFHPVIYTVRDDKGLTDILGKREHGTAESLVYIKALGTFDKAAIDKITEEIN VIIGLVNYTYNSWQPLLNKIISITTDVVHSTDIYESEDLPVEETLDFLNWLQKNNITFLG TVDFDVESKALTNEDGVRDIWKDNLEEISTIEFSKSEYEEKLVMLGKINKLSPVHRNA LVDYILVKRVDKDG VYRSGTIIFGLYGTAIYFQSIKSIPILRGKMNYVLDKSEFPVNGFN SKKIKNIIESLPRDILIQIDEEDLYCMCIHMLSSMRSHRLKVFVQQDWSNSFINVIIFLP REKLTPEVYNEISCYLKEKFGSEIADNITVVAQDFSHLFATLAIKDILKLD FSHEEMEK DLIQITTNWSESLDRLCCELGEYD GASRHKDVAQSFPAEYRHKFDAGMTIDDIHHLEKA SRQNELTFNLIQGEDNEYVIKFSPEIKLTLSDTLPAIENLGFIAVDEQSFIAKSSSFK KSWIYEFKLSPIKIGTPFDKLENIEEALCKMSSGELASDVLSKLLVSGFNWSKVLI KSLTRYLHQGTGFIYGGYVQKTLVSHHIFTEMLADLFEARFCPAHSEKNVKLSAKMGK YLDEVSSSTEDKVLKNMMLIIEAITRTNFYQNSVCQDNEKMAKSYLSFKFDSSKVPDLPL PIPYAEIFVYSNDFEGIHLRGGKVARGLRWSDRGEDYRTEVLGLMKSQMTKNTVIVPVG SKGTFYLSFAQGNMSREVYMKKVACYQNFRLGLDITDNLVNGKIMQPKDTIYDAENP YLVVAADKGTASFSDYANAVSAEYNFWLGDAFASGSLGYDHKRMGITAKGAWISAQLHF MEMGVDIQKEQFSVVAIGDMSGDVFGNGMILLSKYTNLVAAFNHQHIFIDPTPDHKT SYKE RQRLFAMVRSSWTDYNLKLISKGGGIFSRSEKTINISAEIKELLGKICSSLTPDELIRSI LKAETDLIWNNGGIGTYIKSSSENNIDIGDKANDNLRVNGNEVRAKVISSEGGNLGLSQLGR

IEYALSGGRINTDFIDNSAGVDCSDHEVNIKITLNEAVASGKITTGQRNKILEQMTDGV
ELVLADNHSQNLALTIAEHSPLMNIESFSQLIKEMEKAKLLDAENEFLPNKSELSRRSIA
GEGMTRAELAVLLSYSKMSVDTSLATSSLADDAAYFQKYLFEYFPQVMREKFSKEIEAHPL
RQEIIRTVITNKMVNQLGGTEISSIKRETGASLCDIARAHSVVVEIFDLNLWEKIAKLG
TSVDVGIKVEMFSDLGKIMRRGISWVFRNIKAPINVNNTIKEFSKQTADLTEIISKLLVG
TTKTRFFSRIEHYKHSCVDEEFARSVATLEVLVSAFDIIHIATTENKNKDIANLYFESG
DVLSIDWLRQSCEAQVNESYWNRLSIQSLKDDFYDKQRRLVIEIASQAKPSASLESWLEE
HSTYASIFINFVEDIKMQETVDLNMIIILANKKLEIFLRKLGAS

>gene_1273|GeneMark.hmm|130_aa|+|7456|7848 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MTLSLEEARKKAGYSIADVAKKLRKQYILCLEKDDFDSLPGDVYIQGYKQIYYKFLGI
DLPKKKPISVLPPVAIYETNSINKGYIVFFAACMLGLVVLAYSMLNKSPLDEEEVVDENA
ISVHNIAMPK

>gene_1274|GeneMark.hmm|77_aa|+|7845|8078 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MSEITKQDLIEIHDISHKIDELVAKSAKNEKQIEDLKSQNKDLKQNNQDTLEQIKEYIQ
ELEQIRNHVYVDSNNNSE

>gene_1275|GeneMark.hmm|102_aa|+|8050|8358 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MSIVTITLNNKTFKLSCEPDSKEHLVLLAQHLDLEIESMKTVPNSASFELLLVMTALNLM
DEKQSGNEKTGGEILENANQNFQQLLSLRSELNIVAKKVKK

>gene_1276|GeneMark.hmm|86_aa|-|8663|8923 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MFKHVEEAKYIKNYRVWLAFLNDGKEGEIDLYDKINSRTGVFEPLKDISNFKNFVINDTL
SWENGADLAPESLYSMLSTHASKAMKY

>gene_1277|GeneMark.hmm|72_aa|-|8926|9144 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MYYDEHNPPHFHAKYGEYEVAVEIKTGIVTGKFPRRALNAVIDWYVIHKEELMEDWELAQ
KDQKLNKIEPLE

>gene_1278|GeneMark.hmm|607_aa|+|9405|11228 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MTSSIRNIAIIAHVDHGKTTIIDNLLKQSGTFRDNQKVEERAMDSNDLEKERGITILAKC
TSVWVKDTKINIIDTPGHADFGGEVERILSMVDGVLLVDAAEGPMPQTKFVLGKALKLG
LKPIVVINKIDRSDAREEEVLDEIFELFMSLDANNEQLDFPVIYASGRSGWAVNDLEKDP
RENLDALFNMVSHVEKPASVDAPFSIIVTTREYDPYLGRILTGRITGIKINMPIKV
MDREGNVVETGRITKMLTFKGLERLPVEEAIAGDIIAIGLEKANVSDTIADPEVKKPLE
AQPIDPPTLSMTFSINNSPLAGREGDKLTSRVLRLMREVEGNVALKITETDKTDAFNV
AGRGELQLGVLIETMRREGFELSISRPSVLFKEDPETGARTEPMEEVQIDVDSEYVGSIV
ESMNLKRGQMKDMRETGAGKTRLIFIAPSRGLIGYHGPFLTETRTGTGVMRSRIFHSYGEYC
GKIEGRRNGVLISMEDGNSVAYALWNLEDRGDMFIGSGVSLYKGMIIIEHNRSNDLEINP
IKAKQLSNVRASGKDEAIKLSPPRLMSLEQAIAYIQDDELVEVTPKSIRLRKVYLDPNER

KRLSRQA

>gene_1279|GeneMark.hmm|153_aa|+|11326|11787 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MISFMKIQIISVGKMSAELATLAKHYQKMIGWEVRSVELVHSSKLLKDEQIKQYEAKLIKE
KLTKNAHIVALDLSGKHLTSHEFSKLFSSQMMRGGDIDFIIGGAFGLDESIISEASARLC
LSKMTFPHQIAKLILLEQIYRAQTILNGHPYHK

>gene_1280|GeneMark.hmm|89_aa|+|11800|12069 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
LRAANCYHCPILIDWLKMAKEELIEFDGEVDELLPNATFRVTLNENYKIIAHTSGKMRK
NRIRILAGDKVRVEMTPYDLTKGRVILRY

>gene_1281|GeneMark.hmm|197_aa|+|12113|12706 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MTTPILASASPARLTLRQVGIPEPDRIPADVDETEERGELPKKLAHRLAILKAQTVAS
TIDQGIIIGADTVPMGRTPMRKAANADDVRSSLKLSQRHRVYTGICIIKKDSGGVRE
LSRVVQTTLRFKQISDAEIDYYCSTNEGIGKAGGYTLTGYAESFVAYISGSFSNVIGLPL
FDTMNMLNSCGVRLFGK

>gene_1282|GeneMark.hmm|239_aa|+|12847|13566 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MSIHKFSLHHAFASYLEGDDCDRTWIYTVERNHVGILRELLGIVNAQDIDIKLEILQNP
DLLRLATSSKTRNTDLFSQFLYNACGQSCSEEFLLQSAFEFAIAKKDVARVTYIVEVAVYF
EVITPALVALNSLYTVGDRVYQHLYKYGAYKLGLEQVYAKTLPTVVKIASLVDIPIDIAR
MIVLGLFLGYPEGDQNFLLDITEERISALDGNASEEWKALLDITEEDISELGSNASCCVIC

>gene_1283|GeneMark.hmm|364_aa|+|13593|14687 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MSKRESETRDYSGRRTSQIDIYAAAGLVTSGRSASVPIIREDTESKVDINGFYRSNSILT
EVGLAASAPGSHRGSVVSFSAGVGEIDGLSRQSSRLSAFEPEGGNENAEELFAARVSGM
VTRMPSMIKAANRESINNGSQNTLVFSDSLLLIDPNVAWDMVVASGKNNGNFSPWVGELQ
EASVDSITSVKIGQMLRLMVNNIDSATLGVARLHAKENPLEKLNLLSFTKKALIDSEQNL
FNTLVYLQRVDLWDFLQSLAEPHAHLTKDGLTTIKVLLTALKQFIDSENDTMNGSNRNI
EIQGEYINLSNIPNVLILQDEYIQNPSVYEASIVATSVELAIVAASDEEGTGCSCMGEEG
CVII

>gene_1284|GeneMark.hmm|196_aa|-|14777|15367 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MFLSKRFSVFALIFTILLGALNPAQAAKSGSSSLRTFGDYAQIVNPLFVAGLASQEIGFG
HFIIYGQSWVSMHGKLIKLSAKWSASKRPNTGNKKDRYEGMPSGHTNSAWVAASYVRM
FSEHKYLSIPLYATAIVTGCSRVKAKEHTTLQVIAGAALAELVTYINSRLDWSDEYQSTN
FYFGGDEV SARFEFRF

>gene_1285|GeneMark.hmm|403_aa|+|15578|16789 >NVVL01000056.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MRYLSKKDYSILLGNIIDHFDTSIYIFLAPMLVPIFFPHSDPEMGLIMAYGILATSIVTR

PLGTYLFGALARASSPPVALSYSLIGVGVTTLLVGLLPDYDLIGKYAPILLIIFRIFGGI
FAAGESAIKLYLIQDKADKEAHSCSYLYQLSTVLGIFLASMTAALIHSIDTANAWRLCF
IFGGIASIIGFYIRKTSLPAPASGLQLFKFYDASGLRELWHHRRVVVRIAIVESFSQITY
VIPFVSMNYLIPLFTNISLSSMMYVNSFMLIFNIFAIIFIGRIVASFAPKYIMMRAGLML
ALTIIPLWYFIEGASIAVYVTFVRLWIIILGVAFLCPLNLWYRDQIAGDEKYIIVGMGTTL
ASGIIGKLTSPICLVLYYSTGSHMSVIFYAACIFVAALFVINE

>gene_1286|GeneMark.hmm|522_aa|+|16807|18375 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MAQNTTKRKDKDHVSTKVIIAYFAMVVGMFMAILDVQIVASSLSVIAAGLSASRDELSWI
QTSYLIAEVIVIPITGFITKAFSTRIIYLGATIGFTIMSVLCSLAWNIESMIFFRVMQGM
FGGAMIPITFGLAFVIFPKNIQVTVSMIIGLVVTIAPTIGPTLGGYITEISSWHFIFLIN
IIPGILVSI AVFLYVDFDKPNYLLKNFDLGLVLIATLGGQYVLEEGNKKGW MEDNH
LLFLSIVVAISFVWTLIQELTHKNPIVDFAFQDRNFSLSCVFSFILGLGIYVVIYLLPL
FLFTVAGYSSLQIGIAMMVAGAFQFLSAPIAARMLSVGTDERIVLAIGFVMFAMGCYTNT
FLTAESRYWELFIPQALRGFSVMFCFISINGLAFDTMPKSRVQNASGLYNLTRNLGGAIG
LASINNLVISRTKIYAQA IKDNMPMTSPQLQETVGAISESMAGRINDPELAGLIFLDSLV
TREAIIAINDAFIIGLLFCSGLLLL PFLVLTKKGANSNVH

>gene_1287|GeneMark.hmm|150_aa|+|18365|18817 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MFIKLLSLPIFILWIGLAGADVPIFMIAAPLFVMLIALKMKVLPKKIAFRIGAIPIYFMW
LLKEVIMSSIAVSKIAWRKNLKIQPMVEPVKSVQRTDVGIVTYANSVTLTPGTVTLSDS
HALLVHAIDIRFMDDLQEGEMDRRIKKIIC

>gene_1288|GeneMark.hmm|90_aa|+|18811|19083 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MLNICLVIIITFSSIVICGALWQKDVFTKLLFLNSGTSLAALFICFLGSFEVNSSYIDIA
LIYFLLSIVATSAYMKYFLQKHKGKNAPS

>gene_1289|GeneMark.hmm|396_aa|+|19085|20275 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MKNSSKITAETPNPKITILGLGLGGMITALSLAKHNISTHIIEGRAAGGDGFFHDVRTT
ALTDSSKQFFQQIGVWEKLAELSCPINDIYVADNRAPNLLHFASSELKKGEKMGYLIENT
PFKKALFEEVSASSLINIMDDTSYEITENTPDGCSLLLNGKITHKCDLLLVC DGRGSAAR
RRYFSADLEKSYNQNAITFIAQHEKPHEGSAVEHFLPSGPFALPLKDQHRSSIVWSVPS
DKNDMLMNLPKDELTHLVQRNFGFLGEVQIKSEIASFPLKAYVTKQYYNKRIALVADTA
HIVHPLAGQGLNQGIKDVQALAEELLEHGIAERVLEKYQTMRKADNSNILEITDVINSVF
SNDSKLFHSARQLGFAMIESLPPLKNLLIKYAMGRR

>gene_1290|GeneMark.hmm|236_aa|+|20282|20992 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MIKTLTSLANYIMPYRCASCSELIEDSGGMCAECFAKLN FITSPYCQLCGVPFEFAMEG
QALCGKCIITPPKYDLGRSLLKFDQHSKNLIHAFKYNDKTS HAKMFALIIARYANDLQD
VEFIIPVPMHRIKRLVRNYPNAQVLSTELAKLLK RMLPDGLIKTKWTKAQTTLRSERM
KNLTGSIRINEKYDIKDRVILLIDDVRTTGTTSN TCSNLLKAGAACVKLV TIGVA

>gene_1291|GeneMark.hmm|83_aa|-|21004|21255 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
LFYVNYFYGDFIMAKSGIDEWVMVKKGQRELTMDQYAILDACRTFNYLIGDNLDDLKLS
GLELDYIEPSEPPLVGNSSDSEA

>gene_1292|GeneMark.hmm|84_aa|-|21283|21537 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MVSARKRLALHKPSGIIAQKLGTLKAIIRIINNTWIIRIDSYGLHTTEGLKKNKNSFC
VKKHHILLISGLFITVSNYFYDDC

>gene_1293|GeneMark.hmm|220_aa|-|21639|22301 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
LDGVSADLIQESLHETTNETQPETGEMPRASSILPDLPEMHMILPVFMDNLDGEHLKAI
YRTLASFDNLPPESAKIFRVILVLTIQGSIRLKETCIYLAGLNNPNADSLENLYNILLE
CNNLSDELFEIYDTLVGFSNLSDKFFEEIYDTLAEKLNSSAEESLAETCYTFAETCYTF
EDSLSEAPSLDSAEAEFVLFDPDDENTSPAGALGPNDV

>gene_1294|GeneMark.hmm|77_aa|+|22938|23171 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MTNNRVKYASTIRKNIGLSINKIRLEKRITLKKLSERTNVSINLLDKFELGKNKINIELI
AIIANALNVSAKDFLLK

>gene_1295|GeneMark.hmm|131_aa|-|23334|23729 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MIVIDSNIILDIVTQDSRWFWDWSSQLKTLAEDYKLLINDVIYSEISISFEYIEELENIL
VDNFIIQPIPKALFLAGKAFKLYKGLGGTKTSTLPDFFIGAHASILNVPLLTRDKKRYK
NYFPNLEIIP

>gene_1296|GeneMark.hmm|74_aa|-|23726|23950 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MKVSTKGQVTIPFDIRNKLGLLPHTEILMKTGTQVIEKKAGTVSRGQYVLRNRMVKGAS
VKMSTDEIMKITRS

>gene_1297|GeneMark.hmm|298_aa|-|24060|24956 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MRSRILIVTCLSLIFAGGVALYLYPSKSTEIITLTADTSPTKKKPTDPGGMVLPNSDSL
VYEKLTQVTNRKIRILPEPEAPIEIRRTLKTEAKFLDSIEEILDNIEYEAKLANNKPD
ALGGSQDSRYGDSSYEDSSYRDSSYGDSDRYLDSNYVMPNIIAKSEIPDDMMQDNPPQND
SSRGPHSILIAGTKLNITRAAEPEHKMAQFNLSKSDSGYKIQLSSAYSLSAETQWKAL
QKRHAKILKGAALITKRVEGKNERIFYLVMAGTYSSLSHAKSLCRKLGARKQNCIITR

>gene_1298|GeneMark.hmm|577_aa|-|25032|26765 >NVVL01000056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MNIFKELKNDLKNIGLKLKCADQDIWSQASLETPKDPLNGDISTNVAMIIASKEGGNPREI
AFKFKELHSEIPYVAHIEIAGPGFINFTVKAEKWHASLRSILSDDVDFWEMNVGNGKKNV
VEYVSANPTGPMHIGHARGAVFGDALANILTKCGYMTKEYYINDAGSQIDTLVDSVILR
YKEALTGQETQIPEGLYPGDYKPLGKKLADEHGDALLSMDAGEMRGKIKRIAIDEMLIL

IKKDLADLGVNHDIFFSEQSLHDGGKIDEAIDVLRKKDLIYTGTLPKPKGKIMEDWEEKE
QMLFKSTNYGDDQDRPVQKGDGWSYLAADFAYAKDKIDRGFDNLIYVLGADHNGYVKRI
KAVIEALGDGKVTSDIRTTQLVNFVKNGEPIKMSKRSGNFMTVSDVTRQVSKDIIRFIML
TRRNDMILDFDFDKTKEQSKDNPFVYVQYAHVRAKSILAKAQETIGSAYKNFIAEEFDVS
LLSSEEEIQLIKLLASWPKTLSAAAQHREPQRIAYYLIDVASKFHSIWNLGKENNNYRFN
IEDNIELTTARLALAEAVRKIIAGGFKVIGVTPMDKM

>gene_1299|GeneMark.hmm|386_aa|-|26762|27922 >NVVL0100056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MLKQYACLPENSRGRIHPEDPTPYRNEFERDRDRIIHANAFKRLQYKTQVFVNHEGDHYR
NRMTHSMEVSSIARSLSKTLGLSEDLAESVALAHDLGHSFPGHAGEHALNECMKDFGGFS
HNAHSFKILTNEHKYAAF DGLNLTWEVLEGIVKHNGPVINEKSYEYVYVYNDKHGLDLE
KYSSAEAQVASLADDIAYICHDLSEIRAKIVSYRDLEEFIDKYIHEVRAVYPNIADN
RLIYEIGRKLTHHLIDSLLLQTNRNLSFKIETESDIRNHKRQIVEFTPSIFEEVKQIKD
FLMRKVYKHHEVAYVTLQSQNVVRKLFKLYVDNIELMPFSWRNMIAENNLDSKMSIADY
IAGMTDRYAIKQYQSFFNLSFANKGL

>gene_1300|GeneMark.hmm|110_aa|+|27997|28329 >NVVL0100056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MNLLISADASKRVAELIAKNDKKMVALRVSDGGGCSGFQYQYQLAESINEDDFVLISDD
KNVKVIIDAVSQEFLDGCSEFIQELGSSHFQITNPNASAKCGCGNSFAV

>gene_1301|GeneMark.hmm|752_aa|+|28769|31024 >NVVL0100056.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23747, whole genome shotgun sequence
MLFGVEIGLDMVIVIGFLVLTLVVGMGHGKSVKTIKDYALGGRNFSTAALTATIVATWAS
GSGFFVTMSKTYSDGLPYMFARFGIGIYFLIVSFLVPRMGEFLGKISIAEAMGDLYGRH
VRVITAIAGTIGAVGSVAVQLKVFGSIFSFLDLSHYVTIIVAGVIVTVYSAFGGIRAVT
FTDMLQFFAFGIIIPVIGFIIWDFYQGSADLTYAMSDPRFNITEIFSANNINSLEMTVL
FCYFAMPTISAAAFQRISIGNNIAQVKKAFIAGTFLIVIQVITAWIPFLIHALDPSLAS
DQLLGYIIDTYTYPGLKGFIMVAILAFAMSTADSRINSASVLTNDIYKLALPNLTNEIF
VSRLFILGGSIMLALFETDILGILVLANSFYYPVVTTPFLLTVFGFRSSKKSVLIGM
AAGFSTVVIWKLPLVFTSMSQKIVGVLFAMFVNAVFLMASHYLLRQKGGWVGVKDDTTYI
DEQRIRKKKWAAMKFKQSFKLIKTIKEAPVPESTCVMMGIYFILFTVTIAYSTDIDT
LKDNGNLVSIYQIMMVTGTVMAMYPIWPMNIKQKTRDMIIRIWYPVTMFMVMMVFFSAFF
VLLSDSNLHYMIFTANIITLILIGWQVGAVMIIVGYTMAVQFYKYMGIEYLDISLGS
PQFILVYSLVFGVILMIFLKPQERLEQTEHRVGELSDEVGTLVTVVSSRDSQISTLDT
KVSGLLEERVDHYTERTTNQAQEIERLGATAQR

>gene_1302|GeneMark.hmm|272_aa|+|330|1148 >NVVL0100057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MKKIVIHVSESSGQTVKHAANSSLSKFRDIEVKKYHWPMVRNLKMLEEVFEKVRKPGM
ILYITISNEELRGALKKFCYDLKLPVSVISKIVKEISEYIGTSADPAIGYANKFDDSYFD
KVEAIEYSLRHDDGQILEDLEEADIILIGASRTSKTPTSVYLAINGFKTANIPFVRECPF
PDFLHEMTNPMIFGLVINPNRLIGIRESRMNLLQVTEKSAYTDIDSVREECRQVKKLCSE
NNWKIIDVSMRSIEESAAIIMKHYYDKKKMSR

>gene_1303|GeneMark.hmm|204_aa|+|1123|1737 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MIKRKCRDNIGMMKNIAITGGFASGKSFLKVAKSLGYDIFSCDDYVGMPLYKDEKIQKII
ESEIDGLAKFNKQDLAKIYDDDNARKKLENIVHPMVRAGIREFEQKNADKEMIFTEVPL
LFESGFDKYFAHNICVYCSDATRYLRAKSRGYDDDKIIRINKIQLTSDEKRKMADFTID
SEQSFGRMKSLIGITSQIKNHRH

>gene_1304|GeneMark.hmm|221_aa|+|1760|2425 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MTEREILDTEETGLSPKDGHRIVEIGALEMVNKVLTGKKFHQYINPERDMPEGAYKVHG
ISYEFLQDKPLFSDIYKEFMDFIEGGKLVHNAQFDIRFLNHELKSLVKAAPLNLEDAIDT
LAMARRRFPGTRVNLDALCKRFKVDNSSREFHGALKDAALLSEVYVELTGGRQVTFMSMDK
KDVKLARDSGDKFGARAIGNKIVIQPTEEEEKNLHNKFLKLEK

>gene_1305|GeneMark.hmm|209_aa|+|2441|3070 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MQNKNNISAKSSKSNIELKKSRLKRDILSRKLNEDDYFLANNIIIENVENLLACLKNET
PSKKRVAGLYWPMKGEPLVLIINSNWRIALPKVRGVKMDFMKYKIGEQLELSMGRGVR
QPQNNITLSPVVIIPGLAFSIKGDRLGFGAGHYDRYFDKLGKEKDITKEKDVIKIGVCF
DENLYEHLNPHDVKLNIIITEKTIAL

>gene_1306|GeneMark.hmm|240_aa|+|3067|3789 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MTVTLFDSLIIIVITVISSLFGVYKGMIIHIIINFLGFIASIVFAMVIYPYALIMLSGYIES
ELVASITSGVASVYFSLVIFTFITAKTILLFSDSGGGIIRILGLVAGFARGVFFSLIVF
GIAAIATTGTYSNVKHTEDMVLKLSKYPDWLADATTPHLEKMLKDITSMILDRNRDR
GNIEDIEDMDDMMDLAEKEEDLIDVIKRRKKKSFSSAISKSTTSSIAVPIEVGSENDFD

>gene_1307|GeneMark.hmm|246_aa|+|3806|4546 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MQKYTFKEHLVELKNRLLKVVCAFIHAFVGSYWLKDDIYEIFLKPLSDLSSQGGRKIYT
GLAEAFFSYIKLALFSAFIILPVICYQIYGFISSGLKESEKKIVSSVLAFFSPILFYFGA
FFVYFVMPRAWDFFLSYESSMKIPLIMEARISEYLGVMQLTLVFGMAFQLPIIMVIL
CVIGLVDSGLRSKRRISIVIIIFIVAAIFTPDPVISQIALAIPLMMLYETSIIIMCKLVEN
RTEGSK

>gene_1308|GeneMark.hmm|427_aa|+|4548|5831 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MLDIKWIRENETEFQELMQTRGLKIDSEKLIYLDEEKRLTTLMLQQFQQAQKNQKSKRLGA
LKGRVSVFEFDQLKKDVSHINEKLIIEISSQLNEFDEFQSIMDNIPNLPANDVPYGI DESMN
RFVRDFKEPLEFPYAKEHFDLGRDLGMMDFEQTAKISGSRFVTLTGKLAKLERALISFMI
DTHNEDFAFEEVSPPSLRSEAMYNVGLPKFADDSYLTEGGDFRLIPTGEVPLTNMVAG
KILKRDELPLRYVAYTECFRSEAGSAGRDRTRGMIRNHQFGKVELVTITTPDESKNEHEHM
LNASEEILKRLGLPYRVMLLCTGDMGFSARKTYDLEVWLPQKQKYREIASISNCESFQAR
RMKARYKETGENNTNFVHTLNGSALAVGRTIVAILENYQNEGDSITPEVLRGYMGGCDK
IEKPNAS

>gene_1309|GeneMark.hmm|84_aa|+|5821|6075 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MQVNMHLISDIVGMFQVALVILSYFLLQSEKVTSNSPFYLYSNLIGAIFFLLFSLWYHWNL
ASVIIEVLLWLLISYIVRNYRGT

>gene_1310|GeneMark.hmm|351_aa|+|6244|7299 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
VEEIMSDRIFYNNPTSHKLSEIAQAIGAELPSLPGGILAGDIDISTVKSLSEAGKGDITF
LSNKKYIAEFKATKASACIVPLGFGEDSNSDSEIMLKVKNPYSAYTHIIDMFYSSGKKL
GSRIMPTAYVSDSAKIGKNCYIGHNVVIEDEAEIGDNCIIESGSVIDYKVKIGNNARIDS
NVSISYSIIGDNFVALSGARLGTDFGFGSTNNGIHKIYHIGRVVIGDDVEIGANSCIDR
GSMNDTIIEDLCRIDNLVQIGHNAHIKKGAILVSQVGVAGSSTIGSYCALGGQVGIAGHI
TIADGVQISAQGGVIQDIKEAGIMGGTPAVPIRDWHKQTIMMKLIKGGKIK

>gene_1311|GeneMark.hmm|149_aa|+|7296|7745 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MTQGVINIEEIMSIIPHRYPFLVDRVLEIELNESIIGIKNVTANEPQFTGHFPGRPVMP
GVLIVEAMAQLSAILVAKSMESVKDKVEYFMSIDECKFRKVVQPGDSLIMHANIVQNRGA
VWKFKAQAEIGGQIAAESCFTAMVKDKTK

>gene_1312|GeneMark.hmm|260_aa|+|7755|8537 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MIHKTAIIGENVKIGKNVKIGAYSVIGDGAVALGDNVELKSHVITEGRVTIGEGTVIYPPFA
SLSYPQTLKYEGEDSEVIIGKNNTIREYVTIQHGTTGGMATKVGDNCLFMVGVHIAHNC
IVGNNVIFANYASLAGHVEIGDHVIIGGLSAVQQFCRIGAHAMIGGVS AVTRDLVPYGLA
SSERAHFQGLNLIGMNRGFDKKQSLEASKIVKDIFNGSSGGVFNKRVEIAKESYPENKV
LQEIIEFIQKDETRTYCKFK

>gene_1313|GeneMark.hmm|283_aa|+|8551|9402 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MIPNLGIVAGEGELPLELAKLYKLSGGQCFIASISGAKTLDFGPFCKPFALGAVGGMIQYF
KENKVENILLIGGINRPDFFTLRVDLTGGALIAKILKQKILGDDNLLRIVSDYIESKGFK
IISPAEILSLGAGTNAEIGTGAGAGFETRAGQITSKKVPSEQDMADIEIGKNIKSLGAL
DVGQSVIVADGYVLGVEAAEGTDNLIQRCAELREKPTGGVLVKMSKSAQDMRLDVPAGV
ETIRLLAECGFNGVAIEQNGVIVISPESTKQMLDKAGVFFSYI

>gene_1314|GeneMark.hmm|733_aa|-|9461|11662 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSSSKSEQLTAIEALQKYRLLYKSFTEEIVEFYTAQGAMDWNVLRVILTGMALDKELGD
NDSLFLMLYKIGVCYHELKQTPELHHKALSQYQDAQQILNNYSINLSTEFRDGFFAFCN
KVQQAQPSGEVQQTPPSSKIHSQAQSSLAPTQQKYEAFAQETVEFIEKYPTVQGSVLLYV
LKGREFFSIATNDMAGLHHTLLSTAAYLNLANRASTKEHTDDSIKIAKNCVAEAIKAFP
RESMTPAQQESFRSCMNKLVALKESAMNNSAVPNLPPQAPSEALGAMPISPEFENKLPIL
TPSLSSSSSSSQIAPPNVGIANS LAHSQFQLSPQLLAHLTICAEKNRNGYDQYVEATTPV
FNQLKQDVQNLSCNLLLHLFIDAERLAKIWDNSESLEFFITNIAICYIMLSQVSANYKA
KATEYIAKARGMPYINNIPQNEINDFNAFTGEFEARISVNEPCNIAALQQQARISFPAAQ
INQSAYKQYQGITNLAIELTKKHPNDPSHHSVLFELHQRNLDCAHSNWNNMFSSLSNI

VVCCA KLSQVDASYRQEAMKYIDEAKNLLS QLSQDPTLAKTVYSFNK FVQRFEETR TDQD
MAPHISDDV PPLPPTGMQSSSSSSSAPKRSLPPTDTPPAKRTKVTHDETNDSP TSLV
SPLPATMITIPKAPPTPPSDAFETDPFCPSNLETSSSPWGT PMSDIAGIDSDTNMFSMFG
EDGEDAGMSWMLT

>gene_1315|GeneMark.hmm|304_aa|-|12080|12994 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MAITASLVKELREKTGAGMMDCKKALVETNGESEAAIDWLRTKGLAAA AAKKAGRTASEGL
TGVCVDGTKGAAIEINSETDFVSKNEVFQNI VKEVSAIAIGHDSLEGLKAASTKSGKSVE
DEIIANVATIGENLNLRRMESVSVTDGVIAS YIHNATTENMGRIAVLVALESTGDKAKLM
ELAKQIAMHVAAARPQCLNAESVDSALVQREKDIFTKQSKASGKPDNII EKMIIEGRIRKF
LEEIVLLNQTFVIDGKTKISELVASFAKELGTPVELKSYVRFELGEGVEKEETSFADEVA
AAAK

>gene_1316|GeneMark.hmm|302_aa|-|13051|13959 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSNLPKVS VGSLLDAGIHFGHKTSRWNP KM APIYIGTRDGIHIIDLQQT VPLLQNALQKI
YETVKNNGKVL FVGSKVQATELIAEYAEKCGQFYVNNRWLGGTLTNWNTISKS IKKIDDI
EKIIEDEKKASSYTKKEILD LTRKREKLLKSLAGIRKIGGIPDLVVVIDTNKEHLAVNEA
TKLGVPIVAVVDSNSNP DNISYPIPGNDDAIRSIRLYCELFSEAALAGIKDALASSGVDV
GLSKKAEGDKSLDGVKLEKTAKVSKAKPAPKTEAKSAAKPEPKAKAAPEKEAAKESASP
AK

>gene_1317|GeneMark.hmm|334_aa|-|14269|15273 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
LLKKVFKIKLLLIIVAAVFLSIVNILGSFLFLPGNLQKEKTI IIPNLSISQISALLED
AEIINKR LFEITCQIYSYHKKLKVGEYRFTQ NITPYQIINKLTAGKSIVHRLF IPEGTL
VHEIIEQINANELLFGKKISHTIPEGY LMPSTYFYSYGDQREHIVNKMRT EMSEALDAVM
LKLSKNSPIKTRKDV LILASIVEKEAGNDRERPKVA AVFINRLNKKMKLQADPTTIYAIT
NGKYK LERSLTRKDLRIKSPYNTYHTYGLPVAPISCPGRASLEAVVAPAKTTALYFV VNG
RGGHSFNSLKEHNKHVRKFKARVKRQKARRKRG

>gene_1318|GeneMark.hmm|79_aa|-|15276|15515 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MANLKSIEKMSFEESLAELEGIVRKIDAGQENLADAVG SFERGVTLKNHCESMLKEAKLK
IEKITSTDNGEIKTTEVEL

>gene_1319|GeneMark.hmm|157_aa|-|15532|16005 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MTHYFDES FVVAICFVAFIYLAYQPVRKAILASLDARIQEIKDKLEETETIRND AKKLLD
DLEHKMSDFEARKQVILDSAEVTTKRLVETKTQEMELLARKKESAVKFIENQKTKATAA
MRDEFTESVLNMV RTYLVETKNNSVSDEEIIHF IKK

>gene_1320|GeneMark.hmm|159_aa|-|16002|16481 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MPQFDVSSFTS QLFWLALSFGCLYFLVSRFIAPKAESILTARN SCLEGNIH DANEYNNKT
KLEITR KERSKEVHASVEEKHQQVLRAL EANFNEQMEELAGVLQKKTEKAL SEVNSYID

KFHADEPNNSCAHLAAFIQKVTNKQADLKLLEKIHGRSK

>gene_1321|GeneMark.hmm|75_aa|-|16510|16737 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MEELMALKFIGAGLMAFGMLGAAIGVGNIFGSLLGAIARNPSASDQLQRMAFIGAGLAEA
MGLFSFVIAMLLIFT

>gene_1322|GeneMark.hmm|242_aa|-|16869|17597 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSHSPLDQFKIKELINIELFGHDVSITNSAAFAMILASLSVFVFMIALKDKKLVPSRLQL
SAEGTYGLIRDMLEQNVGSGGRKFVPLIFLTFMFILACNLLGMIPYGFTATSHISVTFAI
AMMIFLLVTVLGLFLHGFRFFSLFLPAGTPWWLAPLMVVIELFAYLARPVLSLRLANM
VAGHVLLKVMAGFVISMAYLKFLPIPFIVILVGFEIFVAILQAYIFAILSCVYLSDAIN
LH

>gene_1323|GeneMark.hmm|103_aa|-|17587|17898 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MRLWKLKNKMHNKKHQEIQRIDKFKTVKKQASTQANTPLSSASRALNIGVELVAGTIVG
VVMGLFFDNLFDSKPLFLIICLIFAIIAAFKSIWNRYIKNNVT

>gene_1324|GeneMark.hmm|263_aa|-|17873|18664 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MLQYDIANLNMQDSMNIKKIFLTIAILGLSGCSEDAAISTNADQTMKDSATTSQAEGAS
PNEQQEQGGDPKTETFEHVSPRSKYEVTDNDTMFGNKDAQVTIIEYFSPTCPHCVYIHK
KVFPEVKKNYIDTGKVLVYVMREFIATKQDLATILAKCLGDKEYAKFMDVILEQQINWA
YSKNYREILTNIGSLGGVSPEKYAACLNDESKIELLIQNTSLIYQDPEFGGTPIFFINRK
AVIGLYPVKKFLKEIDEALEAKK

>gene_1325|GeneMark.hmm|71_aa|-|18769|18984 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
VYTKYNINQVGGAYMANNSQEWGALFEEWLLPVYGSPIVSCGSGTVLPADPNAASEPATE
IFPGLIYTEPR

>gene_1326|GeneMark.hmm|175_aa|+|19278|19805 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSGIVTYEGVFKFEGENVYLTVSFSMCIIGKKVEIMNLNVAYSKTQWGDERSLISTDSEL
NAWLEVNNPLLSEYPNYTTKELAIFLVAMNCAAFYAQNCSGSSDRIEYKISPAKAE
SVADSLKAAGFAREDSKGFDDSSIVLFTRAHDELPLGMELVDMQVAAEIIIEQWE

>gene_1327|GeneMark.hmm|41_aa|+|19989|20114 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MKVVKSLKSLKARDKNCRIVKRKGRVLVINKVNRKFKAKQA

>gene_1328|GeneMark.hmm|956_aa|+|20631|23501 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MFGINLDLISIVVGLVVTLIVGMGHGRHIKTIEDYALGGRNFSTAALVATIVATWASG
SGFFITMSNTYSDGLYFIIAVMGMGISFLIEAAFIVPRMGEFLGKVSIAEAMGDLYGKEV

RIITAVAGTIGAAGMISVQFKVFGNMFSYFLHMPNYVAIISAGFIATLYSAFGGIRAVTF
TDILQFVAFGMIIPMIGFIIWSQFYEEGLSFTEAVSDPKFDLSVLFDPSPKLGIMVIMF
CYFCIPMSAPAFQRVAIGRNVAQVKKAF LISGICLIVIMIIAWIPFLVYSMNPNETT
HLLGYIVDTYSYAGLKGLIIVAVIALAMSTADSRINAASVLFNTDICKVIVGDLKRELLI
SRSFVFLGIGSIIALSETNLIGIVVFANSFYYPVVTPLFLLTVFGFRSSSKAVLIGMG
AGFVTTVLWKVLPFESYFSQKMAGVLFAMLMNAVFLMGSHYLLSQKGGWVGIKDRTYID
MQKALRAERIATFINKVRNFPVESIRKIPLAGESTYVTIGVYFLIFTFTTIYSTHMEML
KENGKMITTIYQIMMISGTMMGMYPWPLSIKQATKEMAIRIWCPIAIFYMLIFLSTFFV
LVNKVNNLHFVMFAVNMIIVSVLLGWQVASAMIVVGAYMAVQFYKYYAGVEYLDTSIGSP
QFILLYSLVFIGTTLIIFFKPKQERLEQSEQKVDLTLSYAIGDLT SKVTGLNEEVSHYSMR
VSNHEKEIERLGGTAQRIINNLNHELRLPVGNNVNF AEMLHDGLGKFSQDQLKEISKEYV
QNSSRLSSMILNMLDLATLSAKKIELNKKEIDFSRMVTERVHACRNIYAGDKPLEFKLEI
QPGIIAVVDENYLRQTIDNLLINAINFSEKGVITILSRKKNLVSLVIQDQGLGIPKSEI
YDIFTPFKMGSNMETKAEGRGIGLALCKAAINAHGGEINAESQEVGTLFKVTLPLD

>gene_1329|GeneMark.hmm|117_aa|-|23586|23939 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSKHDLIEYKNYYGSVHFDAKEELFYGKIEYIRDLVNFEASDAKSLVQSFKDSVDDYLEE
CRALNKTPDASFKGSFNIRITPELHREIGLYALQHDSSINGVVKSALKEFMQQQGH

>gene_1330|GeneMark.hmm|85_aa|-|23936|24193 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSRLEKLIVKLRKESKDFSWNELIKLLTGLDFTLSNGKTGGSRKRYHEGHNIINLHK
PHPSPYLKEYALKQIRNKLSEEQMI

>gene_1331|GeneMark.hmm|101_aa|-|24343|24648 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MGAQNIENILDSGAFIFYLMNSNAQSEFGLIMAGVAQLVRAPDCDSGGRRFETGHSPHLQ
ETMRMVLEVWGLGFIIYASPLIIFYKHQLIIFTRTCSSAG

>gene_1332|GeneMark.hmm|88_aa|+|24853|25119 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MAANKILTVKLEAETKSKLQHLGKVKSRSTHWLMKKAIDDYVEKEEKKEALRQETLARWE
EAESGRVVGHDLVIQSLDSWGAGDKSDV

>gene_1333|GeneMark.hmm|96_aa|+|25112|25402 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MFKIFWLESVDDLARLKAFLEKASPKAASIAAKLIKNATNKLQEFPLIGQDVEGLEDFY
DIFIEFGASGYHLRYRVFNQKIYIIHIKHARELSFK

>gene_1334|GeneMark.hmm|348_aa|-|25584|26630 >NVVL01000057.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MSFSPKFQITNETTSALTAIERTRGFLDAATLSNEWIEQMQRALILEAYHTTHIEGTQL
TLEQSEQLLAGKKLLDTPDDVKELLYRKA FELVADYLN VGEPITNGLVREIHKELVID
VRGNSAAPGEYRKIQNYVNSKTGKPVYTPPPAFEVPIIMMSQLTDWINTESINPILVAG
IAQFQFVHIHPFLDGNRTGRLLSTLCLYRKG YDFKKLFSISEFYDRDRANYKAIQSVR
ENDMDMTNWLEYFTRALSTQMQEIRSNGEQIIKLDILKNKYKLNPRQQNAVKHIMKHGSL

TIKDYETIFPKINRRTLQRELKAMVEYNVIKADGLTNQSVYKLTNPL

>gene_1335|GeneMark.hmm|241_aa|-|26763|27488 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MKKLAIVTGGIRGIGAATSIALHEGGYNVVANYNNNHEAARKFTAKTSIRAASWDVSSSK
ECRESVAKIEQEFEQTVSVLINNAGITRDGMLHLKLSAENWAEVIDINLSSCFNMSSAVIG
NMRNQGFGRIVSISVNAQLGQMGQTNYSASKAGIIGFTKALARESASKGITVNAIAPGY
IATDMVKQIPDKILAKIIEQIPVKRLGAPAEIARAIMFLIDEEASFITGETLSINGGHNM
V

>gene_1336|GeneMark.hmm|104_aa|+|27583|27894 >NVVL01000057.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23831, whole genome shotgun sequence
MMSKIEKSDTIEISSVTDYLMRIFCLLSICLLVNICIAKAGIIRDSEIEEAVDLIVAPL
REASGLKDLEVHIINNPINAFTAGGNKIFINTGLIINHPDPDI

>gene_1337|GeneMark.hmm|51_aa|-|3|155 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MNLKNGMMIFGLASAVSCGLSSQTYAACDAGFTTDSADFALEAVEDFES

>gene_1338|GeneMark.hmm|179_aa|-|315|854 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MRIKLAIIVLAVILALLFWPSTQKILFHTESEFGPIWVVEEDNQRRLSFNGVPAHLIQS
QIHLDRPEHLVAPYNQMLMSSLFFTSNPKKILMIGLGGATTAKALNLLLPKTPIDIVEIN
PALPPIAAEYDFDREDARNKIFIEDGVGFMKNAAKNSYDLIILDAFDIDYIPPGFLTLS

>gene_1339|GeneMark.hmm|420_aa|-|862|2124 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MIEDSDRIFTNLHGTESSGLQAAQKRGDWSKTKSLIQKGRDWIVQQVKDSGLRGRGGAGF
STGMKWSFMPKDSKPSYLVVNADESEPGTCKDRDILRNDPHKLVEGCVLASVGMGANTC
YIYIRGEFYNEAIIQLNAIDEAYAAKLIGKNACNSGYDIDIYLRGAGAYICGEETALLE
SLEGKKGQPRLKPPFPAGFGLYGCPPTINNVESIAVVPTILRRGAEWFAGLGKPNNTGSK
LFCISGHVNNPCTIEEEMGIPLRELIEKHAGGIRGGWDNLKAIIPGGSSVPMIPKDV CET
VTMDFDSLRAVGSGLGTGGLIVMDKSTDIYAIARLSKFYMHESCGQCTPCREGTGWMWR
VMMRLVKGDARPEEIDELLDVTKQVEGHTICALGDAAAWPIQGLIRHFRGEILDRMKNLQ

>gene_1340|GeneMark.hmm|242_aa|-|2111|2839 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
VSVRIRVRVRMRESEMRMKKLFGILLICIFSSLVASADSISGRFFVKGKSLDFDRSFHPI
KAGSYTKGKPTKCHGTIVPELSHDDAGLFMTINRKIYDFVEIYGICNKDEQSNFSVSYD
VPRSRSKNFFSVLWMTKKDDKLWRIDSLNFNFESEGNLLEVDIFNLLSNHMMGEMVKLSA
GHLPKNTNWEQFLAKIASRDVQLYIKNREWHIVFNATANLDMVIDVKIPEYFLIGSRNND
RG

>gene_1341|GeneMark.hmm|189_aa|-|2841|3410 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MSKMAKMSKTEVFSFNKENLKKAQEIIAKYPEGRQKSAMLPLLDLAQRQNDGWLSVA AI

ECVANHISEPYIRAYEVASFYSMYNLKPVGKYHIQVCGTTPCMLRGAEDIMKSCEKHALA
KCGENSKDGLFTVSEVECLGACVNAPMIQINDDYEDLDPKKVGDIIKALREEAQSSGK
SPAKEKEKA

>gene_1342|GeneMark.hmm|405_aa|-|3407|4624 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MRKQRNNKIVENMEAASEKTTTTINFGPQHAAHGVLRILEMDGEVVNKADPHIGLLHR
GTEKLIEHKTYMQATPYFDRLDYVSPMCQEHAYALAVEQLLKCDVPIRAQYIRVLFSELT
RILNHTMNIGTQAVDLGATPLLWLFEREKIMEFYERVSGRMHANYFRPGGVVADLPK
GLLEDIATFSGQFLSRLADVETLLNNNRVWKQRLVGVGVVTQKQAMDWGFSGVMLRSGSI
EWDLRKSNPYEVYDKMDFDVPKNGDCYDRYLVRIEEMYQSIRIIDQCIKQMPGEVKS
LDMKISPPKRKDMKDSMEAMIIHFKLYTEGYNVPKGESYGVVEAPKGEFGVYLYSDGSNK
PYRCKIKAPSAHLQGLDFMTRGHLMADVVSIVSLDIVFGEVDR

>gene_1343|GeneMark.hmm|199_aa|-|4602|5201 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MEYTHIIDFAKDNLSITPIDGFAAYRTSAGDVLSELLKFALEDEELRFSVLTDLFAA
DFPEREKRFELVYSLSLKLNKRLIFKIDLAEGETAHSVTSLYSAACWCEREVDFDMFGIE
FSGSHDMRRILTDYGFKGHPLRKDFPLSGHLQVRYDEKLEKVIYEPVMLEQEYREFDFTS
DWKGPEGYVLPGDEKAKKQ

>gene_1344|GeneMark.hmm|170_aa|-|5207|5719 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MKNNLQTGLKNNFDEGLSNRGYVLTAKIDLTGWARSNSLWPMSEGLACCAVEMMQTASS
RYDMDRFGFLFRSPRQADLMIVAGTLTNKMAPAMRRVYDQMAHPKYVLSMGSCANGGGY
YHYSYSVVRGCDRIVPVDVYVPGCPPTAEALLYGLMMLQRKIKRTSRFKG

>gene_1345|GeneMark.hmm|128_aa|-|5727|6113 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MLNNMLQNLDFLSEYLPPIAFFCVATILSIVLVALPKILAKEKPKDKLLSYECGFDAFG
DARGKFDIRFYLVAILFIIFDLEVAFLIPWAINLKAIGHFGFWSMMVFLVLTGVGFAYEW
KKGALWE

>gene_1346|GeneMark.hmm|611_aa|-|6366|8201 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MKKKILLTTALSLVPMFANGAGPVNTTYQGNNIFATDNQEFTGIIGVGGHLDADAPIMIAS
DRNKYFRDMVQDNSILALMAGNIERLGRELKSNIPPEILQKATAFLAKVTKEKEKVLARS
KMINENFDGDFSLIDAIQGVDPKNLTTAAIKAILQNADEKRRGEASVDCVVTPTTAPTA
IAASSATTSSAPASAEDIKSQKELAHLQQSEQRYLRQQGGEKREKMLKDVQTDIDHHPRI
EERRKSESTQEDFQDCLVDIADETDEAKKEALVKRLREDLRDYISPNIKRNTAPKRLVAA
QQPETAALAMTKSVQTISRUVGGRMASLSHVGVSSGEAFESYGVWLKGTYSQGEQKAYD
ARSGYKFDQKAVTIGVDTGEESLIGAAYSFSSGKATSKNNKDNKDDITAHATIYGKYAI
TDKTFVSAQQGIGTATIKKQRDTGTSTIAKANPKASILGGKIELGYVMTLADNVAFIPTI
GFDHASVKVKGTYIKGGTNKSVGKMTETRTSVIGGATMQYVHDTGHMKFSPEIHVNGKVA
LSAKNSDTKIKFGLAPVTPSEEAARASYNIGASLKVARCMDLEVSAGYDFDASEKFTS
HTGTLKLRVNM

>gene_1347|GeneMark.hmm|82_aa|+|8464|8712 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MAREVSSFDAKTHLSNLLSQVQKGQEFVITKHKHAVARLIPIKKS AKIRNTKQIINEIQD
SSKSYSLNLAQGAPELKSIGRK

>gene_1348|GeneMark.hmm|708_aa|-|8727|10853 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MQGIKKVCVIGSGVMGSGIAASVANSKTEVILLDIADENPTEDKNSNDASSIARA AVERM
FSAKPQPLLHPDFAKYITPGNLRDDLELIKECDLIEVIPEKLP LKHKLYDSILPYLKES
AILASNTSTLPARELKKNL PENVQDRFVITHFFNPPRYMELLE FVSDDNTSADA IKRISE
FVTVKLGKTIVACNDTPGFIANRVGCFLEMMVVRKAIERKLD PVKIDQIFNKLLGFPKTG
IFGLYDLIGHDVMGLISESLKSSLPKGDYHDISKGSPVLRK MATKGLLGRKSGAGFYKL
TKNNGKRTKEVIDFTRMKYSVVSTKTIPKTIAELLEGN NKYSKFFTEILADFFSYAISLV
GVVASDSGDIDKAMRLGYSLKYGIFELLEERIPSGMDWLRKASKNDALHYEPSSALRIDA
WYDIAKNVTSNDSAMLLDYKNQHIFVITSKMNSLNHDVFNLLIDSVARSED TGKNLYICQ
SDAPNFSAGADLKFFYDNIEESNFKAIEDFVELGQKAMMALKY SKASIISCAHGVALGGG
CELLHSDFFVVAHQNLSAGLVELGVGLVPGWGGVKEMFLRSGGDEQKLLQNL SNILLQSK
SRSAEYFAQEYGVDSLINMNKSLILEEALAIKVPKPKLNLVNLPPISLAASIDSTNFDE
LQLSVMDFQIIDLKIIDEFSLLELEKEKFLRLAAKPLCLKRLNRFV

>gene_1349|GeneMark.hmm|143_aa|-|10888|11319 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MRNDLGVKLI AVL DINS LKLYKAQGLKIIDEVGCFLIHS DVNHKTEKHEGFKGQKSTPSS
FYDPHSSAKDIEYRESSKVAINH IKKIFASDREYKELFVVAEAKMLGHLRQYL TSGLKCC
LNKEIKDLIHHKMKDVEKAVFA

>gene_1350|GeneMark.hmm|70_aa|+|11435|11647 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MSGRIKIIPV FYKFKQGRFPKVS LIISLKLIDIFATVVNM RASAAWQRHFHPSIVNAL
TINLRFCKNS

>gene_1351|GeneMark.hmm|417_aa|+|11644|12897 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MTNRIKETKETEATEVTE DAKIAKATAISLEDVAVSKASKRSKATKTPKPKSYPKSSSN
NNKKMTPHDKL FKS VFDNEANGRAILEKHL PEDLKKHLDLDHLEIEKDAFIDEDLKAKMS
DIIYKVKTKNPKRDGDVILFLYEHQSSNDKKMMLRLWR YAISSWEPYLARGKKLP IVASL
VLYNGKGKYTSYRRFWDLFTNPELAEKIMSSECLIDLQ SMPDEEIFADKEFGLFKYFMK
NIRRNKVIELWKECFEKLPEHIEIDKKQKLFYIKRLWSYTEDKVPIEKKKELTSFILKQI
KKMGVNGVKT MKTIADGYREEGLEEGIFIGELRGQKIGEKIGEKIGEKIGQKIGEQIGQK
TGKKMGAEMERKKT VIRMLKGNLDPKFIS SMTGMSQGAISKLRTQLKFEGKLEQDIA

>gene_1352|GeneMark.hmm|433_aa|-|12894|14195 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MFYIPIISSAILAVILLYFIYSNVTLRAKMKFLEQVTAESSLKNTELESEKIRHIQKIEQ
LSGSLEHQKQFIADFEKLRAESHNSTKAALFEMGGELS KQLIDMHKKESKEHREVSDKSV
KDASVKFNSEFERIVNMVGALSKEVSQSKD TVDVIKNSLLSPSGAGCLAEITLENILNAS
GLRKSLDFIMQYSVVGEEKEILRPDAVVFLPSDKLMIIDAKASKFLVDDQGD LKLNARTM

NLHLRSLSSKSYSEVVQKSLKKNRIAVGNVVTLMFLPSEHAIEKLIADTEFMTKAWKSN
IFPVGPAGLMNMLSLFAKFQISETMMAHNNHQQIIDEVKKLIASIGSMAEHSMLGSSISSL
VSHYDKFAASFNRNFLSKARNIGKMGIEEALKKQNSLQRMQLVASQPELIEIEAENEIGS
EVGKIEEKLREQA

>gene_1353|GeneMark.hmm|271_aa|-|14213|15028 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MSRTKKHRIFVVGNEKGGAGKTTCSMHLIVGLLDGRGYKVASIDTDSRQHSLTTYINNRKE
YNQKNPKSRVAMPLHFHLKESVHKLLEEKNKHQDQIQFDQAFNLAKKHADYIVIDTPGSHT
HLSCIAHSYADTVITPVNDSFVLDLVIKIDTDSLEISKPSIYSQMLWEQKMERAEKDKG
TIDWVVVRNRLSNLDAKNKRNVSALTKLAKRISFRVIPGFSERVVFRELFPYGLTVLDL
KKANFIKSLSISHVAARQELRAFLDSLDIRS

>gene_1354|GeneMark.hmm|504_aa|-|15015|16529 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MLNISFENQDLYANEAIAVLIDDQLKMDSSAMEIDQKHHGLISKLIEDANKFKGETGOAL
TLTSDKEGNLRNLIIVGIGDASKLKAYELEEEIGGTIYSQAKACRASSAGVAVGGHIGEF
AESEASALLASGALLAAYKFDKYQTKQKDEDKCVTDEFNVVTGDHDAAYKAFEVKKSIAM
GVYFARDLVTEVPNVLYPESYAEQIATRLEPIGV DVEVLGEREMHNLGMGAMLGVGQGSA
RESKLVIMRYNGAADDVKPVCFVKGVTFTDGGISIKPSANMGDMKYDMGGSASVVGAMK
ALALRSAKANVIGVGLVENMPGGNAQRPGDVTTMSGQTVEILNTDAEGRVLADCVTY
LQEKFDPECVIDLATLTGAITVALASTYAGCFANDEELAKNLIASSVESNEKLWRMPLHK
DYDEMIKSPIADMANIGGARGQAGSSTA AHFIGRFIKDGVKWAHLDIAGMAWNSSDKNPI
CPKGAVGFGVKLLNQFVQDHYESD

>gene_1355|GeneMark.hmm|330_aa|+|16903|17895 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MKEEIKNEKSTKSNLNLKKAIQKEIIGQESLIENLLVCLIANGHMLIEGMPGLAKTT
AAKAIADGIEGEFHRVQFTPDLLPSDLTGTEVYTHETGEFSFREGPLFNNIVLADEINRA
PAKVQSALLEAMGERQVTIGHKTYKPELYMVLATQNPIEQEGTYSLPEAQLDRFLMYVY
VDYPTFEEELQIHALDENKLNKRKDLLAVTTQEEIFSARACANDMHISDSLKSYAVSL
VMATRTPKEYDDMLAGWIMHGASPRATLALIRCSKALAWLRGDEYVTPSHIQTVPFILA
HRVILTFEAEAKGISRNRIIDRLLEVAVP

>gene_1356|GeneMark.hmm|297_aa|+|17909|18802 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MLYPDFNELLQLRSKVTRSSLVSDQRVKSSQVGDHLSFRGNGMEFEFVRQYVIGDDIRK
IDWLVTARLGLPHIKVFKEERQLNVTLCVDMNHTMRFGTRGTFKSVQAARVAALLGWCAN
VNNDSVGAYLFGDLPDGAEFFRPKSSRQSLWKMLKSLSDSGAAGGEYVPISSSIEFLHK
ALQPGGLVFIISDFMNIDDEFRQQLCYLTRRSQVIFISVNDPSDMEIPNAGNILFAENDS
RKIHISTASKSGAEAYRKQWQENRSKLERIASDLGIRSI NIRTNSDVIFYDLFYGLKL

>gene_1357|GeneMark.hmm|185_aa|+|18806|19363 >NVVL01000058.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MEGITKNKELHGHAKQVNETLLARLREIDGLDAANWWPLAPIWWVIIVAMLAGFALLI
RYLKLRAWRLSWKSDVFLELEQMENLTIENAQNTATLLSEIIRRVIMHNSHREECASLE
GEEWLQWLAKHGDTMGAVNNTDNSTFDWRDNGRVLIEDIYAPSFSPDAMRRLANLINAIAK

DWVKK

>gene_1358|GeneMark.hmm|337_aa|+|19364|20377 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MFTFYWPLMVLLLPVPLIIWFFLPPDKNANSDSPELLFPYVQRLLTAFERKEVAPSDSK
KYFIIMLSLLWASLVIALMRPQWADQMEYDHKKGYDIMLAVDVSASMEALDFSTLTKSIS
RLDVTKEVVSNFAGRRKGDRLGLILFGEHAYLQVPMSEDTLAVSKMLNNAVSGMAGASTA
IGDAIGIAVREIRSPPKSRILILLTDGADTSSNIPPIEAAKIAKHGIRVYVIGVGRSG
PVPYPNQFGQISMVEIGMDEEMLAKIAAITGGQYFKATDSTALEVIYDKIDKMEKIEINM
LGYKIRQPLYRYPLGFACILFLALCLMPLFKRSRYGV

>gene_1359|GeneMark.hmm|618_aa|+|20367|22223 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MEFSQSMESQFHFAHSYYFLGILIIPIIWWLYLHYYENNANTKDLENFADSHLVPHELLR
SSKTGQISVVRSLVLGSLVWLLLMAAMAGPRWDFKEVETYKDDKSLVILLDLKSMDSAD
ITPSRLVRARQEIEDIINSSKGVKVLVGFAGAHMISPITDDMNNIRRLPLLGTDLVF
VQGTISPAFKTAKQMLLAEPGVNKSILVISDGGFQDDNHSIVKNLAGLGVVTHTLGVG
TEKGVNFIGADGQPMMRGGQVLTSRLEKEKLEATARAGSGEYFNTHYSNENAKNILKLV
GSMFGAGNKHANIIHWEERFYIFLAPLMLVLLLWFRKGFTFPILLVLLTPAPQVLGASL
VDKIFLNKEQLAKKSFEVDDIGSALAAFDDPYKRGVAYYKAGMFKKAKEFRKNKRPEV
SDSALYNLAGALAHQNKLDESIETYKLLKKNPNHKKTRHNMGVVRSMVFVKEEKKEQEE
KKKPPKNEDEKFPSSGGGGGDEDEDEGESGDESDDSGKGDEKDDSSGEGDSDKDKGGS
DDGDGKDSKDKKDSGGADEKKGDKDEDTSGDEASGKDEAEIDQLLDLISNDHKNFLKN
QFQIESGNSKTKPTNDPW

>gene_1360|GeneMark.hmm|615_aa|+|22217|24064 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MVKKLFLFITLLHCLCSLALAAEFTATIDRGTIALNQKLVLRRLVDASPKSSPDFSGIR
KVFIDILGTSRSTRSQWVNGQSSSLTEWQMSLAPKKIGSVSIPSISVKTGDGVLKTQQLAV
KIKKAKPTPAKDEKIGVFIENSVSRRKPKYKYPFIYSVKLYTADAAENIRFEPLKLEDVS
VKQNGSHSIYLYSEYKGVEMNVIEVSYIITPLKHGPITIPKLIKSGMHISMQGNRFDGIFG
SFFGNQAQGDLFTRKSREFLLQSKEIKLDIQPPQKATPWLPQAQSLKESLSSDEFVRG
MPITRSITTATGLTGKQLPEGGAGLRDNGDFQIYSETPEFTNNIKGSLISSSRKDTYSI
IPQKAGEITLPVIRLKWVNLKSRPESASVPARTIKIAPSRMITAPEEDKAGKPGSSENA
IKIGDNSASNSAWGFGADGGFANVLAYLFLAIFGAGGVFLYHFVDLSSLLKLLQKFRLT
PVNSKEMAGGQAVLAQQQAVSDIIAKPAIALKDIDSVSSARELYEFLNKYAHYHFQTPSN
SSLGKIFASMEKSCADIKKEEQYKNIIQKLEDSLYAGKEIDLASVRLECAELLKLAKKKQP
SAKKRASSELPLNLP

>gene_1361|GeneMark.hmm|348_aa|+|24077|25123 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MHIVNIIYNKSDGGLEKIFLDYNEYCLQLGHKVTAIAPPDAMINPAIRAQVPIIPSNLI
ASSIHNKNPFAALYLRRIKRIKPDILIHARTLELIQKAAKGICSVACVHHGGKTKRL
MRAKNVICVAKYMIEELRISGLENANFYVVPNSIKLTRNFTQAPLPKGNFPKGKCPVVIG
YIGRLSHEKGV DILLSALTKEIPYKALIAGDGPLRVELEKSAKDHNLSAEFLGWISSAQ
KDDFFNKCDMLLVPSRQEPFGLVILEGWLYGVPVSSKSKGGCELIQHKADGLLFDICDE
KSLREALSMDKTTHQRLINGGRAKLERLYTPDHARELFDISAIGQLLN

>gene_1362|GeneMark.hmm|63_aa|-|25152|25343 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MTSNNKTYIAEEKEISSAFESDILAASDDSNIKVHAMAAKHFLKKSERINIRMINAF
RSY

>gene_1363|GeneMark.hmm|85_aa|-|25541|25798 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MENEENADDINTVSRIAGAVAKGLFFALCAAYLFANMSRIFDGLKIAASITGALLMLGVWA
MYNSCDPYEDDLLAGNLGNDDAEEV

>gene_1364|GeneMark.hmm|312_aa|-|25892|26830 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MKNYTIIALALILSSCNATKSPAPIEYNHPGSTLGGRPEASDDEIISRELASMMQPETI
TPYEGGARTGLQSSIVDEAIIYHEVQVGEELKDIAQKYKQSASDIARLNNLYPPYDLE
EFQIVKVKATREFTQNTSQYSGNQDLAEMKGDLSAAESKAASGPAKSASDLADGQKSVAT
KPADKLDIAPVKGRVLTKFGKTKYGINKGLNIAAKQGTKVLAATSGRVIYSDYDATFG
YLVIKVNKNIVTSYAHLEDLILSKGESVQQGNVVGYVGGTGVAKSQLHFAIREGKIA
KDPLEFVSYSEK

>gene_1365|GeneMark.hmm|145_aa|+|26914|27351 >NVVL01000058.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23838, whole genome shotgun sequence
MPNYDLAIASDHAGVCLKAKIMASLKAKAIKTLDLGANASDDRVDYDPYAKKMVEEILEG
SPESGILICGTGIGMSIAANRSSEIRAALCITEPMAELARLHNDANILVLGSKLIDDKLS
LKIVDKFLSTKFEGGRHARRIAKIS

>gene_1366|GeneMark.hmm|124_aa|+|1|375 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
DELVSFMLKQINKIGNNGEKVMKTIADGRREEGWKDGLNEGISIGEERGEERGEERGKKI
GEKIGEKIGEKIGEKKGVEVERKKTVARMLKENFAPKIIASVTGMNQRAISKLRSQLQLQ
GKLV

>gene_1367|GeneMark.hmm|466_aa|-|456|1856 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MKYDEQLLDAVLRDFGSGFIGKVFHSINPGASYHANWHIDLIADYLEAVRAGEIKRLIIN
MPPRALKSVCVSVAWPAWLLGQDPAARIMAASYSSVLSVKHSLDCRLILSSNWYRRVFSK
TILSKKHQKSKFLTQNGFRFATSVGGSATGEGGDVLIIDDPHNPTQINSLKMRSRAIE
WFEQTFVTRLNDKNKGAVLVMQRLHEDDLAHLCSGGWEVLKIPAIAPSDMVYDIGKN
SYKYKQGELLNGKRDKLEFLHNIEQEVGSRNYAAQFLQEPLPAGFNLLKADDISYFETLP
VGFEYFVQSWDTAIKTSEKADYSVGTGCVGLDKKYLAGMVRKMSYPDLKREIEKQANK
YSPRHILIEDKASGQSIIQDLKLSGYNNIVPITPKLDKVTFRFASIVALFQSGQVVLPEKA
GYKRELISELTSFPNVAHDDIADSIQFLNFSKNMRDSTKLRVRL

>gene_1368|GeneMark.hmm|86_aa|-|1874|2134 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MKPTIEKLYGFIARLVSMLEEEDELGANKSKSAITVKRNITDTLNKLVTLIIQLNKLSK

DDMTQNNESLPSEDAEIIERFLKKYQ

>gene_1369|GeneMark.hmm|397_aa|-|2136|3329 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MLKTYFKNLTKRRSEKSKSFLDIPFLRGESDDRVAESYKNNNAIVHRCVSLIASSASHVP
WQIYKNNNGERKLQKNHPSVRLKPNPEKSGADFFTSISTLLLYGSSYMLLGFDKKGGK
PARMYNLHPNNVEFVHKNHLVGYRHRAGGQEQIFHIDPATRMSHILHLKNYNPTNPEAG
SSLSAAGKSINLHSKIMDWNKSLLRNAIRPSGALVFQDGNGLTDEQFSRLQQQFYDNF
SGSSNSGKPLILEGGLKWQETSNAEKFEKFDLKDSSAREIAIAFNVPPQLLGITGDNTY
SNMQEARFALWEENLMPLLDKYADALGSWFSCWFGHEELIVDFDRDSISILGERRENLWAK
IASADFMINEKREFVGLDPIQGGGERLNSHVNNNDNEQ

>gene_1370|GeneMark.hmm|424_aa|+|3577|4851 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MNLQKIFADRKQRQIFILGIYSGMPLSIIYSTLPGWIKGAGVDIAIITTLALARIFYSLK
FLWAPFVDQIRLPILHKLGRRKSWMCLMSGIIAFIIFSYSRLSPEESFSEIYILTALGF
CSATLDIAIDAFRIDTIKKEQQAIAAANAIVFGYRVGMLVSNAGVFFMIEDYGWEVAFMMV
SSLYVAGLFFMMLTKEPKIEQEEFNILTAHSWKVMTINPFMDFLQRKGAVLILLAVVFK
LGDAMLGVVATPFYELGFSYKEIAAIAKVFLIATLSGAYIGGFVMYRFGSFKGLIIGA
IAQSITNLSFIWLNHMGHDTALMVTIVIENIASGMGDAALVGYLSHLCNKQYSATQYAL
LSSASGLFSHSIVTFGGTMVKAMGWNMYFLMTVFLAIPGIVLLLYLNKKDGFADYDKATI
KRSS

>gene_1371|GeneMark.hmm|59_aa|+|5018|5197 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MKCCIRIILSIISLFFVLSCTPGAPYEVRSPCVSSGDSGHTYGVNPCVRRPLNMKYAIV

>gene_1372|GeneMark.hmm|236_aa|-|5234|5944 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MIDTIMLFAAGLGNRMRHLTENS PKTLIPILGKPIHHALEMCKSYPFKKVVINTHYLHE
KIEQAIKDFQDSNPDFPEIVVIYEEELLETGGAVKNAQDILGDKPIFTLNTDIVMQSDDN
IFNYMNSHWKPKTMDFLLMQPYDKSVGYSGHGDFDLSDGRLIRPDKEEHYNYMYAGLQ
ILKPEKVARHPLKIFSLREYYLNSEKVIPLPAKNVRWYHATKPEDLIDIEMDMLAN

>gene_1373|GeneMark.hmm|369_aa|-|5952|7061 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MPAYVAERGALLKEFIQDKFLQIDKIEGILGDAGLRSYSRIYSGGESYIIMDCPPDYCSV
QPFMDVAKYLAEQGFVSPKIIHHDVEHGFLALEDGFSVSVKDYLLQANPEEHKRIYHLI
IDLLIDAQDKSDVGNAEIGKLVSGSVEPGKPGSGKPGSASLGKSNPALDSCAANKSESTF
GTFDNELLASELQIFIDYYIPYAYNRELSIGELEEEMEIWSNILASQDPMPDSFIFRDYH
VENMMYLEHRDSIKKIGLLDFQDAFLGSPYIDLVSVLEDARFNVPRDALAYIGYFTQKK
ELNLEHVLARNYHILGAQRNSRILGVFARKASRDGDSYIKYIPRVLQYLDYDLSHSSLVV
LKAWLEKLLK

>gene_1374|GeneMark.hmm|424_aa|-|7066|8340 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MSKESKSSHCSFCGKGELEVKKLVAGPAVFICDECIVLCRDILKEGAKEEIEEKFSI

PTPKEICKTLDDHVIGQDRAKKVLSVAVYNHYKRLESVLADDDDDGVELNKSNIMLIGSTG
SGKTLAQLAKILDVPTMADATTLTEAGYVGEDVENILLRLLQASDFNVEKAQKGIY
IDEIDKIAKKSNDVSVTRDVS GEGVQQALLKIMEGTVAHVPPQGGRKHPQQDSIQIDTSN
ILFICGGAFMGLGIITARGDN SIGFAAKVQSKEEMRHS EILKDLQMEDLIKFGMIPEF
IGRLPVVASLKDLDKAALIQILTEPKNAIKQYKCLFDINEANLEFTKDGLEAIAEKALK
RNTGARGLRAIIEILLED MYNFSEL TNKTVTFNKESVKSSSSVIVNGRKKPANSSMSKK
PIAV

>gene_1375|GeneMark.hmm|202_aa|-|8405|9013 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MQVGYVPIVVEQTAKGERSYDIYSRLLKERIVFCGEFEDHMANLIVAQLLFLEADNPEK
DIYMYVNSPGGVVSAGLAIYDTMQYIKPKVATLCIGQACSMGATILLAGEKGMRYTLPHS
RVMIHQPLGGFRGQATDIEIHAKETMKVKATLQEIYAKHTGKTVAHMAKIMERDHFMSA
EAKDLGLVDKIIHRDLIKTEK

>gene_1376|GeneMark.hmm|139_aa|-|9162|9581 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MLIVKDKLTISI ELIQGVFMGRRIFLLIVITSLVWGGDWLYRAYEVKESEIPTSKISDLK
VILYSKEICAYCQSAKNLLDKKGINYEVVELTNNKDLHIKLINQTGQSTVPYVFINDKFI
GGYQNLLELDEAKGLECSD

>gene_1377|GeneMark.hmm|778_aa|+|9694|12030 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MLSKNLERTLRKALSIA TEHKHEYATYEHLLLAIMGDRDVRLVLDRLSCITDIENKLT
YLKNNLVDLVDKNIKDSMPTAGFQRRIQRSAMHNQTNGQLPLTAVHVLAEFFFEHDSYAL
LCLKEFNLRKDVLDYAKRLDDIHKTLYPQNTPPHRALIANVAKDKNASPKQVKSSDAKE
SDLEKYCVNLNEQAGSNSIDLLIGRENEIQR TIEILCRRKKNAILVGEPGVGKTAIAEG
LAVKIVNKDVPDILKDTVIYSLDIGSLVAGTKFRGDFEERIKSILNTLKANKNIVLFIDE
IHTIIGAGSTTSGAMDASNLLK PALAKGDLRCIGSITFKEYHNHFEKDMALVRRFQKIVV
EAPSEEEFNILQGVKGYEKHHNVTYTDEALKA AVHLSERYINDRHLPDKAIDLIDEAG
ARSSMAHDPE DGTIITEKDIEVLLSAILNIPNL TIEADEIKQLKHLSSDLKRRIFGQDEA
IESLCGSIKLGVAGLRKGRPTGCYLFTGPTGVGKTELAKQLSNCRNMKLLKFD MSEFVE
SSSISKLVGSSPGYVGF DQGGLLTAEVDKYPYSVILFDEIEKAHPDIFNLLLQVMDEGTL
TDNTGKHINFTHSMIILTSNLIAGDTKAPIGFSNKPAGQEEKKEPNMENINEHFSPEFRS
RLDKIIIFNPIDGIVEKIVSKNLKELASMLADKKVRLTISKSVIKYFVENCFSNASGARG
LDRMIDTKIKQKI ADEILFGKLGQGGTAILDFSKKDKEITFKFSKVKTTKNEQCETS

>gene_1378|GeneMark.hmm|137_aa|-|12176|12589 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MKNKRNIDLTLP AEQLRNALSSLSALDTPAEDRFLIDASIQRFEYSIELFWKFLKKIL
QREGRPVQLPREILKESFQAHLIDNEQIWIDMLIDRNQTSHTYNEDLADEIYQRIKTTHL
SEMLTSFESLVKKYEIF

>gene_1379|GeneMark.hmm|100_aa|-|12579|12881 >NVVL01000059.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MQLPHDISHYKFWQQLASLPFLDKIYLYGSRARGDNLERSDIDLAICCPNAKKYDWQKLV
YIIDNSDTLLKIDCVNLDNLNDDNQLKQNILKDGVVLYEK

>gene_1380|GeneMark.hmm|514_aa|-|13018|14562 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
VQKISKWKMMIAILVITITSIIYVTPNFNTTKSSWLPEDTVNLGLDLRGGAHLLLRVDFDK
YMDDVSQSVAESLRKNLRSDKIRYRNLHVS RNKIQFDLRNLDQAKINKLARTIDANLSA
VKEEGKITLFYDEYAINQLQDKVIDQSIEIIRMVRVDSTGTKEPSIQRQGTQDILLQVPGE
DNPAELQRVLGQTAKLTFHLVDEGANLERARSGHAPT GSMILKSGDDQEGVLVVKKKIIV
QGDQLNNAQAQFQEGEPVVHFSFNHLGAKKFAEATTKNRGRR LAIVLDGKILSAPVINGP
ITGGEGVVSNGFTVEAATELALMLRAGALPAPLSVIEKRTIGPNLGADSI ESGKMASIVA
FGLVVLFMLLSYGILGLFANITLV LALLYIFAVLTMLQATLTLPGIAGIILTIGMAVDAN
VLIYERIKEESAKGCSNLYAVKVGFE SAFATIMDSNVTTLIAAFLLYTFGVGAIKGFAVT
LTIGILASMYTALVITKLMIDIWLKLCNPKSLGF

>gene_1381|GeneMark.hmm|149_aa|-|14593|15042 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MISSAHAREETDTITIQNSEGAETSMPSMESGFASLV PMLLIFAVFYLLIRPQDKRRRL
QEALVLGVKKGEDILT NAGLFGKVM SINDSDNTIMVRVAKDVEMKMLKSSIADIVSRTKP
DGDKKDSKKGDKQEADKKNPATKAKPKKK

>gene_1382|GeneMark.hmm|587_aa|-|15124|16887 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
LILERKLGAKILITRLIKDHVSLYKKKIFTAIFFMVIVALCSAAVVKLVQPAIDLIFVEH
DREMLLIPLVMLAIYAIGVAEYFQNYLIK YIGQKILTNLQMRMYEHLLSADFLFIQSQ
SSGRLISRFTNDIMLRGAVSNMLVGC AKHFLSVFFLILIMFSLDPFLSAFIFLAFPAAI
YPIQKLGRMRKVTSEAQQELGNFTAMLDETFDSIKVIKFCSEKIEVTKAQKITDTILE
LYKKT SKLDSLTPIMEILTGFAITCVLWYGGSEVIEGRMTTGALMAFITAFVSAYRPFK
SLVALNVNLQEGLAANRVFNILDSAPS VADAADAVSPEFAKAGIEFKDIEMNYGNRVGI
KSLDLKIKPGQTYAFVVGKSGSGKTTLANLLV RFFDPTKGQILIGGHDIKQVSLQH LRNNI
SMV SQDTILFDASVAENISYGNKKASREDIINA AKAADAHEFIISLPNGYDTAVGTAGSS
LSGGQKQRLSIARAFLKDAPILLLDEITSALDPNSEQSIINSLERLRKDKTTLIITHRLG
GITNAHQIVVMKQKGKIEQGHKHELLAKGQEYYKLYNKELKDTTKAV

>gene_1383|GeneMark.hmm|252_aa|-|16968|17726 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MTKFSVKNYREPIGKFKEINIVSDKLPPKILVIEPDLTLNANVCNAIERYWFDVIRTSDA
DAALRISEINPPNMAIISSRKIDMSAIEISVKLRKIAELQDLPLLFLIEKDEPESNYNLP
NSGYMELLHRPFTPNELMISIRSILRKS KPVFQDKIIGYDDIKMDLSTYQVFRGDKRVHL
GPTEFKILQLLVLPKNIYSRRQIIDYVWGADKEIAPRTIDVHINRIRTM MKEEKDKHLL
IKTIRAAGYCLD

>gene_1384|GeneMark.hmm|129_aa|+|17921|18310 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence
MAFYESIIRQDVSSTEVDRIANEFQ QIIKDHNGRVIKTEYWGLRQLAYEINNNKKGHY
YFMGIEATKPLLDEMDRKIKLSESIIRSS LIKVDEVSKDPSPLLKVDNAGSEKTV DVTNK
TSDKKPSAV

>gene_1385|GeneMark.hmm|97_aa|+|18345|18638 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MSREYSSNSRSAGAQTTSRGSKVFRRKKNKGCSMCSTSAPAIDYKDPPELLKGFISEGGR MLPSRITSICKHQRPLKKAIKHSRVLALLPFVLLNK

>gene_1386|GeneMark.hmm|207_aa|+|18680|19303 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence LEAMEVILVKPDRKLGKVGGETVSVANGYGRNYLIPQELAIRATKENVEKFASLKKDLEAK NDNKNKVDAAEKVAKTLEGKNTFITQSASDGRLFGSVSAKGLAIELSKLTGTTLSYSNIK DDPIKFNGVYNIQLVLHAEVITNILVIVAKSESEAQDALREYLEGDKEEDESEIEAAAL AAAAAAPTDAASDAEGTDADSGHAGE

>gene_1387|GeneMark.hmm|600_aa|+|19700|21502 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MADLVEKDRSIPKLPKTLFPFIWYFLRSFKPAVIFILLAILAGLWAPFNSILIKNVIDL LPQAQNGDLSILLPVSLIVLNFILFDNFTWRGITYIRCKFVPVIINRIIGQSM DYVVLGQ SHQFFQDNLSGKISKQITNLADSIKITSVIPNFLRGASLVLTAFVAAYFVNPVFCLIL ITWFVCFVSTSVAMSKKLVALSDSQA AAESLVV GELVDVVS NQTNVRIFSKNSYENLRMT PFFNAQQKTYHNTYFYALIMHSIQGVMIAIMMGFSGYFLLYYGKNLVTIGDFALIFGLT METGHMMWFTMSELDEFNKALGRCKQSFFALMTPLEIQDKSDAKLLESCGGQISFSKVKF HYKGSEPIFQNK SINIKSGQKVGLVGYSGCGKSTFVN LILRLYDVTEGAILIDGQDIRDI TQDSLHENIAMIPQDPNLFHRSIMDNIRYGRTRATDEEVIESAKKAHAHEFIIKLPQGYSLVGERGVKLSGGQRQRIAIARAILKNAPILILDEATSQLDSVTESLIQDSLWELMQGKT TIVIAHRLSTLLHMDHVLVFDQ GKIVEEGTHGSLLEKASLYKKLWDAQLGGFLGDH SKED

>gene_1388|GeneMark.hmm|360_aa|+|21670|22752 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MDLQDYRINERLNLKPEIVEEVYSIIAEIDAVKNSWQITDKIFPQNIERLTRSVIVTSTG ASNRIEGNRLTDDEVENLYKNLRVKKFKTRDEQEIAGYLECLEIIFNNYS DIKITESSIT TLHHDMLTYSEKDKRHKGIYKFGSNRVEAKDNSGNIIGVIFDPTPPYLVRKEMQELVDWY GKASKVKIKHPLITIANFVFEYLAIHPFQDGNGRTRSRLLTNLM LLQQGYAFTQIVSHERL IEAKKVDYYSLNKTQSTWKTEKEDVSSWLLFFLNIVKSQAIQALSIIEGDDIEYLLSEK QLAVWNWINDNKMEFSRKDIIAALGLAPRTAESIVKFKVDMKRLQSLGQGKATRYKLIHR

>gene_1389|GeneMark.hmm|559_aa|+|22844|24523 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MKISLCQTAPRTGDLAGNFADIWQHLYAALNKEADICMFPELSTSGYLAEDLFLKESFIQ DVWARARELIKNTGKTCLVLSMPIMQDEMLSDGAQLGSDENPIDNQKLSNHQKPGNNYSL YNAVIVAQNGKIIGTTYKHQLPNGSVFDERRYFKPGVPAVISINGTSVGM PICE DIWSPE VCAELKKQGAELFLV PNASPFEKGKMDERITHVQSRFKETQIPILYCNQALA QDGIVFDG NSFCFDGGLQIVGKSFEVDSQIIEVRGNK FHPERSYDREENS YEEGSCEEIYKAMVLGTR DYVRGNGFSKVLGLSGGIDSALVA AVAVSAVGRENVLAYMLPSNFTSQESMRDAQEMAD SLGIDLMTISIMDAVGS LAGTLGLEEGSISHQNLQSRLRGTMLMAESNRLGALLLTTGNK SEYATGYATIYGDMNGAFNPVKDLYKTELYKVAHHINAHHYAFPERVLCKAPSAELSHDQ KDTDSLPEYPVLDQILERYIEQRQSQA EISKDFDPEIVERIIGLVNRAEFKRKQAAPGVK ISSMNF EKDRGY PITNHYK

>gene_1390|GeneMark.hmm|96_aa|+|24625|24915 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MNFRPLHDRIAIAKAVATEEKTGGIIIPDSAQEKPMQGEVVAVGTGARDQNGNIIPLDVQ VGDIIYVGKWGGNELKVDGEDLIIMKESDVMGIIKK

>gene_1391|GeneMark.hmm|549_aa|+|24948|26597 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MAKQIKYGTKAREEMIKGINILADTVKVTLGPKGRNVAIEQSFGAPRLTKDGVTVAKAIE LKDPNQNLGAQLVKSANKTADTAGDGTTTSTILTQAIVKEGNKAVAAGSNPMDLKRIGID LAVAHVLETVKKASKAISTQEEIAQVGTISANGDKQIGEKIALAMEKVGKEGVITVEEAK NFGFEVDVVEGMMFDRGYLSPYFVTNSEKMIVELDNPYILIFEKLLSTLQPMLPVLEAVV QSSRPLIIAEDVEGEALATLVVNKIRGGLKVAAVKAPGFGDRRKAMLEDLAVLTGSQVLV SEDLGMKLDNVDLSMLGSACKVKISKEDTVVIDGAGNAADLKARCAQMRQQAESTSDYD KEKLQERLAKLVGGVAVLVKGGATEVEVKERKDRVDDALNATRAAVEEGVVAGGGTALFY AAKALDGVKGANEDQQAGINIIKKALQAPIRQIAENAGIDGAIIVGKLEDSKSTTQGFNA QDMTYVDMIKEGIIDPTKVVRTALIDSASVASLIITTEAITADPSAKEGAAPAGGGMGG MGGMPGMGF

>gene_1392|GeneMark.hmm|129_aa|+|27002|27388 >NVVL01000059.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23852, whole genome shotgun sequence MSEVIEEIKRAEESVVTEENVATKTLKTNKETKATKETKTPKEADAAPAPPADRPKSTSK NNKKRSPHDKLFAIFGNEASARGILKKHLPEDIKLLDLHDKVERDTFVSEDLKESMS DIVYKIKTK

>gene_1393|GeneMark.hmm|710_aa|+|146|2278 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence VSKKLVYFQSKGVDQLRPGSDINSALSEAVIQKNAVVEQLLKQGADPNIMHSDGKPLLY SAVSNKLTIVIRLLTTYGARIESVDDRIELFTDAKHECFEMILILATPYKFDNQTMLAA LNRVWYDDLDAATALLNLCDKTIQSYVMQLFAKPITREEFLCTLQTIKQCKINIPSQYRK NALDLAFKYPDDQSIGALIECGISQAAIITLATRLLTSSTDRDRLKYALTTIENLVGYSG VDFHKHGETPVFYAARQGYNWLIRMLKDYNVDIDACNIDGESPLFFAAKHGHVNVIKRLI KYGANPNCVNSKEETPIFYAAKQRHTLIVERLIKYGADPNITNVVHKTASYLLECDVRE NLILAINVGYDNVVRKLELNDTDIDYRSLTLPDQHGKTIYYIFRTDMVEKIKSNTQL NQQMLELMQEYGDQLNIMLETCQIDLPTIFEYMQQHDIQFQWSVSSRYLGQQRQGSIKLD TQHAHLGHRVAIEKFLVHECVHAVTSDYYSYNGRPYPYSEDDPGKNSGFDILCKQVQST IDTHKHTRLHSSNLILISFCATLCQGFYDTESGKHTEVPARMAETMAVFGWRNTVIMMQ YHFPKLMAYFEKLIPDQNNDFLGTLLQPLLKDVFILQNIQKSEFNGYRSGTIPKLCIGYSA HEYSPQYVGTLLLDYNLSNPQNMVYDEIEMAVQWAAISGETIDVICDFVC

>gene_1394|GeneMark.hmm|53_aa|+|2771|2932 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence LHSFHKPEGALNLQGFQFKLQGARQGGVFLIDLPAACKSMFQKIVFILDKLCV

>gene_1395|GeneMark.hmm|411_aa|+|2987|4222 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence MNFLDEFKRGYFYQCTNEEKLKKKTENQKITAYIGFDCTAKSLHVGNLQMIMILRLLQ

HGHKPIVLIGGATTKIGDPTGKEEARKYLSDEDINANIAGIKKSLSKFIRFGTGESDAII
LNNSQWLESGLYIEFLRDMGKMFVNRMLTMDSVRLRLEREQSLTFLEFNMYMLLQAYDFY
HLNKEYNCDLQLGGSDQWGNIVTGVDLVRKVSSNESFGLTTPLLTTASGVKMGKSIGGAV
WINEEQSPYDYYQYWRNTEADADVVKFSKLYCEFSDAEDEFENLAKDNINEAKKRLAYV
VTALCHGEDKADSAMETAIRVFENGTGDDLPTITIDEARLASGVACYDLFLEVGLTKSK
GESRRIRGKGAKINGEPVLEDEFVDMSSMQEGVIKLSAGKKKHAIVKII

>gene_1396|GeneMark.hmm|342_aa|+|4235|5263 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MKLSDFDFDLPRELIAQIPSEKRDCSDLLIPGEGGNKIVKFFNLVDCLSDGDLLVFNDSR
VVNAKLSLQKGSKAINVNLNKP SGKNSWLGF AKPSKKLEEGDEF AFGPHKLVISQKLEYG
EIEIEFRLDNISIFEFLDQYGEVPLPQYIKRPDANKEDLERYQTIYSKSGSVAAPTAGL
HFTEELLEKIKAKGADLTFVTLHV GAGTFLPVKTENIHEHKMHSEWCEVSPDAAAKINLA
KKEGRRVIVGTTAMRTVESCAVGG LVRSGVMETDIFITPGYEFQIADLLITNFHLPKST
LFMLICAFAGHQKMQLY EYAINNKMRFFSYGDGMIIIEKTNI

>gene_1397|GeneMark.hmm|428_aa|+|5284|6570 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MSKKTISSKDPEFNDSIEEQFEILTSEAEAEVEAAAKALDNP GSSDASGESGEGSND
ASDASDEWDAEIAEAELEAEISQNAANIPGKGSVSNSPSADKEEQTSKEAQIEDEHPAR
EEAAGSLRSNSHDTHNIEEARLANLPPAQASKQQAQKQTEPPLPEKEEEKKPGFIDRLVK
SFMDGLEWVKSLSLTKEVHLNEGEGMP SKDGGSKKPGTTAAHQNSEKSLAERASSLEG
VIEQRGTAINQRRETIAGLVGDRQQNEKQGRKKDRQFIEERPKD TDGVKRMVSRQLRHQR
QADLEIKKLQNLQRLEEKIQESLRQQQLQIAGLLEDEEKRNLRHKLEQGAASPALASA
SASPENAPRANAPRANAPRANAPRASARRVNISTQRKPMPTPHVPPSAPPKAQPTGRSI
AGDNLRKK

>gene_1398|GeneMark.hmm|697_aa|+|6752|8845 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MSRIATPEQRASYLESFLQGLHGSDKIANLSRKDLYELLHAMKQHGV EEEKSWLEAAQ
INVYTLYGQRQEDNRIEPIHVLLKAAIHAGK LKDTIECFGM DLRNPD DLFVLGQMVPCVE
SWLKR VQTRLAALDIKSLKQAIKNFSSDLTQENLANVLEIMSSDARDARDANQMTVKTFL
NFYNTFMLQEAMKAGNLLDTAEIIGGESVSDWDGELLFMLAE EAIKTGRTEELANLWGEV
DTNSLYDDGEGLLVAAIQAEADLEAVIQNLGIDVNQLITLRVCSILEEWVRDSNDNGYGRQ
VWAREIGDIGDFRTLPP ELVQEV LNAKEVTKEQANTILGALGKSSEVAYNCLVHHILLAS
AAQGSLEADLAVLRVCGFPIEVGEFSDHQRLALLGSTRPDQLEDIARLLDIYLNTPGPPT
QVFILGTAIVNRDLETALNKEFITIKPSEISPDHLRELLVLAVRAKCL ETAAGVLEENYL
ETAAGLLGQDLTALDSETQISVLGRAIKVKNLDLLSLFGRE DVSDLGSKAISSFLHRAVS
SNVFYDIIRKWDINLLET FQGSIGDIYDNRLYTHHLAVGRILSAIPLHEFPQIEPGLLR Y
VFPDDKHFM LVAREIEYRGELKTKAMYELLEPLDWMPFDLFRLLGNFLYRTKDNMNTSSL
DVEILDAAGAVALDE DGDPTFETISRIAGDLSVDVLA

>gene_1399|GeneMark.hmm|125_aa|-|9014|9391 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
VRKIMNTQHLEIINISIMNEAKELMGDRFVTMVEYFIEDSEGYLAEIEAGIKAKDEQALI
PPSHTVKSSAKQIGAERVSEVAKNIESFCREFDKSDPSSFLKLEDLAWQLKEELSMSNNE
FKKLL

>gene_1400|GeneMark.hmm|1090_aa|-|9393|12665 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
LVSYMSRKLHIAIFLAYIIPGKLGFLALPPDSSTAIWPSSGFASAGIVILGYAALPG
VFLGAFFLNLTTHLPILEVFSSEMFQYAPKASLISLGAMSESAVAYIIRFIGFPSIIS
HWRDVLILFIGAGFIGTIPSPTIGVTTLYFFKTIPLSSYVYTWWTWWIGNSLGVIAITPI
LVTMFSPSTYISNRRKLYIAIPLTTVLIIVSLAFLDTSKYEVEKLQHNLELEAKNSTLRL
KSHVYKHFKESTLKSFYKASKFVSRSDFREFIEDIIDSCNGVYSVDWVVPKVAFKDKSKI
INRAVNDGIKDFSKEYDANGALKPAGKRSVYYPILYSESEKHSNPLGFDVFSNPKLKE
LSIAIDTGKEVSTDLENKIDNGQSIKIFSIFKPIYINGSKTDTIENRRKNIKGFISGTFK
RGYLLDRYIKDLKSKGIEIVFDVTKSLSGKSLDREGDTESKRNLERDLKKNPEKIDNKT
ILYESFSGKSKFLLSTQICMKFADKTWEINFQQTCKYLVANKEWHLWYLLFAGLIFEALT
GILTIIITGYSDTIENLVRKKTSDLKISERFQLAVKGRDGIWDWVDTSNDEQYWSPQF
FKLLGYEADEIPPKRSTFKTMIHENDLKAMQRALSDHINNGQQFDIEHRMQRKSGKYGWF
QSRGLLTIDPLTGIKRMTGSLSDISDRKNTKELKQAKEEAESATRMKSDFLATMSHEIR
TPMNGIIGITELILDNTLQQQRGYLDNVLNSAETLLEILNDILDFSKIEAGQMDLERVP
FNLQEASQEVIDLLRPAQKQKLEINLDFDKSVHKYFVGDSMRIRQILHNLVGNAIKFT
KGSIDITVSKQDSASLPKNKAMMMISVQDSGIGLTKEQRRTIFNKVQADSSTTRKFGGT
GLGLSICQMLVTMLEGEIGVESTDGKGSTFSFTMLLDSTTKESVAEKKMDNSVEQFNHNI
TSTVRVMAEDNRINAFAKEMLEKIRCEVTVVRNGQEAFAEQVQKNREFDLIFMDCQMPI
MDGFEATKKICEYEKAESLEHIPIIALTANAMKGDREKCIAGMDDYLSKPVRQKNFASM
VGKWFNKSIIK

>gene_1401|GeneMark.hmm|308_aa|-|12659|13585 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MIQKNKTSPLVLVDDDKVMLMTLEEKVKQKCRVLTATNGKEACEILTNTNEPINAILL
DRMMPVMDGMEVIEWLWLGKQTNIEKPPIMVTGADSPEQIKEGIDAGVFYLLTKPVQTQVL
KSVLASAVEESIQQHALKNELKRHRISFKLMEKGLFYIQTLEEAENISCFLANCFPDSEK
ALPAIAELVINALEHGNGLITYDEKTTLIQNGTWRQEVARTNLPQNKDKKIKLLFEKKG
SEYLLKILDQGTGFEWSKFLKVNPARATDNHGTGIARANMIFSKLLYSDKGNQVTAIIDT
KNEKNINW

>gene_1402|GeneMark.hmm|454_aa|-|13605|14969 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MLKPLIRFLSGKSKSYSKINQLRYLSQSALIEETKAPYMTRVTLVLVSVFVILLIHWAGI
TEVKEVAVTQGEVLPRIHQRIQHLEGGVISKINAKEGELVKKGDTILVLDGASIKQDLS
ALRTKKISLEYQSLRLKSFISNTRPNFKKIVGYDHDSELEEEQIQAFDGMIEARDTEKKV
LTDQITQKKETLTSLMNRKMTLTKNIKLVKEERDLKQKLHKKGHLSKFKFLAAQKHFNDI
IGRLKKTESDIAQAKNMVSEYKNRVESLEARLIDDAHDELSQVEGDISQLDENITKFEQR
ITRLVIKSPSYGIKVLNIKTIGGVIETGEVLAIEVPLRGGLVVEVRINPKDAGHIQTGQ
AVNVKISSYDFSRGTLDGKLEYISATTFADDGSRYYTGRVSIKNIYIGSNPKRNIIP
GMTAQADIVTGSKSILYLLKPIAVSIQTSFSER

>gene_1403|GeneMark.hmm|744_aa|-|14970|17204 >NVVL01000060.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MKGNTAGNMKENTISMADTGSDDIIDRVNDILEMFNTHEVMPDDSKCDHVFAKALSMLM
VSLKWSGNKRHLFESLSHTKGREIDLLDILNSVANLGYTSHEITISMSEIDDRMLPCLFI

PAKRTNSPLVLLSKNEGIITAFDSRDKKIIEFAAGREKGEYFFERINQEDLDEERKTQE
LAGMSWFDIIFSRNLPVVKEIILASFFINIFALAMPLFIMSIYDKVIGAGAITLVYLAF
GVSIAMISEFTLRIIRSKSVVWLGVRDNIISNAIFERLLFMKAAYTEGASVSSQISRVK
SFESIRKFFTPAFSVIVEIPFTIILLMAIWLIAGPLVYIPIVAVFLFILMLLYYQSKIR
VSMQAAAKASGECQRYGMETFMKINYLHHNGIANSWLQQYKEKLSKASMASFRSNITSSI
IESVAHSVTIASGLAVVTFGVHLIWAGEMSMGALVATMILIWRILGPKTLCSMLPRIEQ
LRDSIRQINRLTNIETERSSTILKRPIEHLNGDIKLTNVGIRYSMDAEPLFVGLDLDIKA
GEIIAITGTNGSGKSSLLKLINGLYRPQTGTVRIDGTNILQMEPIELRNYIAYLPQIPNF
FHGSIKDNILLVNPLATEEDVVLALEKSGAMEMIKNLTHGIHTIIRANNPTLPNTFGYTL
NLARVFLKSGNILLDELPNSSLNEKVGKAYQLIIDSRGKKTVFFASQRDDFLKLADKV
ILFKPGRNPVTLKSNEFINKYGQD

>gene_1404|GeneMark.hmm|566_aa|-|17201|18901 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MNLIDKYNLNDPACKFRLNKPSELIVSSLAVNLISLALPVMVLQVYDRVLSNNSIETLSML
TFGVFVAIILEGILRIARAYTTSWTGMMYEYTM SANAMRYYINADPAKLRKEGVGKQIQN
LTTFSKLRDFYGGQTLVTMVDIPFAFIFLGLIMYLTGKLVLIPIILILIFGYVTWLTGNK
LMDSMQQLDADDDKRYDFIIEALQGIHSIKSYGIESIFKRRYERMKEDSSRSNYKTALIS
TQGYNLGSLFNETMIVAVVAFGAPMVMNEMSSGALIATVLLSGKLVQPIQKALFLWSGF
QDYRIATQKAEEIFSMHQIKRWGGELENEKIGLVELKDLGFTHGTSVFSGLNLKVKLPE
AIAIHGAIYSKTTLM SLIAGIFEPGEGEILVDNMPASSIPSAKLVHHVGFISPESVMFH
GTIMDNLTAFNEAKEADAIELAKLLGIDNEIALLPQGYETKINDGHTDTIPPGIKQRIAI
IRVLINKPKVILFNNADKGLDRDGYNCLVSFLSLLKGVAMIIVTEDKNINRLADKHFL
KDGSLSIEIVKDSNIFNVKPYKELKI

>gene_1405|GeneMark.hmm|1773_aa|-|19058|24379 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MADSKSGETGNNSEASHSQEQFDRFDRLTNVDKDL DARKMTAHEKASTLDFEELVTS
DITSSTEELTYPPEKTEILDGAVDSRDRTQHSPDELMINAQFEYNDDSSYNPPPETPI
ATFIEEDALPKEASGEIIEPSFHNAQKTEIAAGQKDANEDIIDQNEASKEQTGSEEAANK
KDIREIEDELLIQRNEEEVTEDEVPGDPPPAPATPPPPIPDPTNPDPTPDPTDPTDPTDPT
PDPDPTNPDPPDPPEPLDPPIDQLGNGNYNIIPGYGISLVFDSLTSNTGYDNSFGHY
FVDGDGNPISGAIDFSNVGDTLGESEVIVRYESSDIPAGAEQIGFFLIPDGANLNQLSA
GDVVFQNIIGGIWTPFINGDPIQGESTPIYFSDQSLNPDGINHMNSSPDGKVGWEDMFGG
GDNDFNDAILNITVQSTTDNNGSDDIITGTAGEDVASGGKGD DILIGGAGNDLLRGGANN
DILIGNKGGDDTLGGAGNDILKGDKGS DTLKGGKGGDDLFGGSGADILKGGAGDDMLFGG
SGADTLKGGGGADTLKGGSGDDNLFGGAGDDTLLGGGGADTLKGGAGDDNLFGGAGDDTL
LGGGGADV LKGGGGADTLKGGAGDDNLFGGSGDDTLLGGGGADTLKGGGGADTLKGGAGD
DNLFGGSGKDILFGGSGADV LKGGGGADTIKGGAGNDILYGDQKSNNDTEL VQLPNGNYL
IPFGVGF TISLDSIISHAGYNN SIGHYFANSNGDP IAGMIDFANVKDTLGVGEP SVSVYA
PENLPSGVVEVGF FLIPNGDR LNHQISDGEVTF TLNNQGEWTPVLDGTELKGGQDPVFF
SDSALNVNGFDYTEIIDQNPLQIGFEDLKG GGDNDFN DVVNVVDIKQNSTPEDDILIGGK
GDDILFGGAGIDTAIFKGNADDYIITHNKDGSITVEDTVPDRDGTDIVHDVEKLEFKD TT
IDVDDIDPPAPPPPPPLPDPSFSGTSDEYIFTSNGDGTFTASDTVPARDGDQTFQGGAD
LDFTDKYTTTTNDTIIGTDGDDVMRGGAGDEIFKGGKGNNDNISGGAGNDTILGGKGGDDTI
DGGDGADIIYSGDGD DIVDAGAGDDIVIGGLGNDNIQGGAGNDVINAGSGDDIVDGGIGD
DSIAGGAGADTIDGGDGDWISGGDGNDAIAGK GADV VFGNKGGDDNISGNEGADTIYGN

EGTDIIDGGADNDTLHGGDGNIIIDGGDGDLLIVGDYGYQDPQLLPNGNYGVPEEGLH
ISIDSIYSTTTGSNNSLGYFADENGEPISGHVAFADSKDSLWAGDPFTIDYNSDIPAG
ATQIGLFIIPDGETENPTLTDGSAITFQNIAGQWTPMLGGAALKGDQGVPAFFSDSNINV
AGFDYTNNSYDGTTRISFEDFLGGGDNDNFNDVVADISIKTLYNGPDNNDTLTGGAGNDTIL
GGAGDDNISGGDGDHGGIGDNIAGNDGDDWIESGSGADNITGGLGADTIQSNAGDD
IIDSGDGNKVFVGAGADDIKGGAGDDYISAGSGDDTVDAGDGNDIVLGNTGTNTLSGGK
GHDYLVSGDGDSTLFGNEGDDHLYGGSSNNTLIGGEGDDVIVSSGKSGTFNALFGDEGD
DILKASDGSNFFDGGTGNDIAIFEGAYSEYIITDFVGDIVVTDTVADRNGDNTLTSVET
LQFSDGTVLASDIAGNPIVPNGLIVADVTDDWTD AISKDPNFVATDPGTWVEDLNLKSH
DHENDYDDL DENELDNNDIPDDGDLDPNDPPPI

>gene_1406|GeneMark.hmm|292_aa|-|24496|25374 >NVVL01000060.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23925, whole genome shotgun sequence
MTTIVSNTVSIKTLTLHLRMSLSASFYKDVITSYKGYGVKYILTSLIGSLFSTMFFL
GDVNTLQTYLEDSKIEQKIENIDHILTQMPTLDYDGKNISTKKNTPIFLLDKKKNKIVAI
DPNGKLPSESAKIPVLMTGNKIVITLIHSDQAIRNSWPLQYTQIFGKEPQILTQEVIKS
NFASLLEKSSSVFIYMFVPIAAILLFINTILEKSFFILVIYFITRAIAPQFSMQACIRTV
LFASGSAVLIQPVLLLAIPTLSWLLGILQIWANLLMVLGILKASGRSRFSLK

>gene_1407|GeneMark.hmm|175_aa|+|108|635 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
VEKGYVSSEFIVKSGRKKNATITGYASVFGVDFHNDIIVKGAFKKAKANKIRLLWQHES
KKPIGVITLLEEDYGLKMEAEINSNTVAGAEAAELVRQKAICGLSIGFVISSNYNKEG
IRVIDGINLMEVSIVTFPANRSAEIQAIKNRDKEKGSYEESLDTLQGLIKKENY

>gene_1408|GeneMark.hmm|353_aa|+|685|1746 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MEENKIEEMSEDLKSFLARESNTGVKINKIEGDISKMQNYFLNDNINNNPEEKAAFNSFI
REGVGSDFINKSFGGAQEGGVLITPTLNNQIISAINAKSPMRQLASIESISTRALDIVI
EDGAFISGWVAESAARPDTNTPNLTKKTINAHELYAQP KATQSIIDDSEINIENWLSERL
VDSFVKLENEAFINGDGNNKPFGLLANAGIGRIDVEHEVSPASLLNLINGVGEYLENAS
FLMNRSTLSSIQSLTDEAGRFIWQQSLSDPLKQTIFGVPVVISSNMPDIADNSLSIAIGD
FRSAYKIVDRSGMNLMRDPYTDKPFVKFYAVKRVGGDVVNPSAVKFARFAAAA

>gene_1409|GeneMark.hmm|175_aa|+|1832|2359 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MIMIVNHKILNIRNIETWPLEEVKNYLRTSDYDDVLLIGLVETATNIAESFTGLSLHNR
HILCEIKNAKPIIKLKHVPVLRRLTGVR LASKDEKEDISDDFGFVETSNSTLHLASHYAGK
DVEIEYESGYEEHIPREIQHGILMHVASMIEHSEDGTSINSEIKDLYLPYRVMKI

>gene_1410|GeneMark.hmm|109_aa|+|2376|2705 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MKQNIISKLSHRIIFLENRAASELEEDLWEEVQTSFAEMKPCDNRFVSLEGLQFGNVIT
EGYFLFRIRSIKDVHSRMRINFQGR LFEIKRIIDEDEKGRMLSIVALEI

>gene_1411|GeneMark.hmm|140_aa|+|2723|3145 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSLTFIHDFQKQLYSALSADAWITNNINKIYFGVVQDQGQSPFILINIQAEDLSLHHNSI
YSVDFQIIGYAKDHNHQLLVSLGDRVVELLSNSERCFGGYIIAGIKANDVQFERARDLVL
NKLTINYKALIKKEVYDELS

>gene_1412|GeneMark.hmm|198_aa|+|3132|3728 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSFHVNLPRIHVEFAIGSSEFSTSCAVSMSGREVRS LDAASPKRRYTLKDCRLSALQFE
AFNSFFKARGRRFSRLRDHFDYIAARQIIAIGDGS AIEFQLQKTYEDKVNPPYVRTITK
PIAASVNLWSDMEDIIPNSIDANTGIVRLAQPLAGGASLSASFEFDVPVRFACDEFQYSL
SKDGSIIINDVELIEVYE

>gene_1413|GeneMark.hmm|260_aa|+|3728|4510 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MGENFVYLFYIKTSRNKEYYLTSSEVVVSAGVKYQPYSGLALTSKGFNDSGQNQVILSG
IFEKQIDKDDDLTGALVKIMYMQGDKGDKGNKDDKAIHFVSYICTQHSMKMDLDFEIKCE
PETIKYNQPVVQMFSKTCRANFGDDKCKVDMGDYSVLCVVKVKNILTCELGDVKSGYF
KCGKLVTLGGEVESCFSKIMSHSGNDIEVERGCNFDFAEQKQVTLIPGCDKSFRTCCYSF
KNAVNFRGEPAPIEFNFIKN

>gene_1414|GeneMark.hmm|43_aa|+|4561|4692 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
VFRFGAVSVPQTDQLQDSA EYFCRVEKDTLSAYEKL VKEYERK

>gene_1415|GeneMark.hmm|168_aa|+|4679|5185 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MKESKFFENNRLNKG YGRAPSNRVSDSALVNKKYNHALPPIDMME EYEEMNPGSCAQLF
SMAKQEQNHRHSM DLVAMNRHNKAVHMGRMFSLLFVMIVA ASTFALAFFGNVIVASVFAG
SAFACIVMVS YFYSKNTVNTVKREFNRPQQRNHRPSKGRGQRNNRPSR

>gene_1416|GeneMark.hmm|259_aa|-|5189|5968 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MKNKVVVVTGSTSGIGLGI AKRFSKSGAHLVINGFADSGEIKKISEELMADGAAGVIHEG
ADLTKPAEIDQM FANILDKFGKIDVLINNAGIQFVSPIEFPPEKWEAIIRIDLIASFYT
IKNVVPIMKKNGWGRIINIASAHGLVASPFKSAYVA AKHGMLGLTKTVALEVAEHGITVN
SICPGYVKTPLVLEQVADTAKARGISEESVIKDVLLAAQATKKFVEIEEIASLAHYLCSK
EAASITGTALSMDGGWTSQ

>gene_1417|GeneMark.hmm|105_aa|+|6408|6725 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MIKTKEIH FITTENGKCPVKEWLKLDIQTRARINVRLVRLEYGVYGDCKRIDKQLYELR
FFFGKGYRVYF TERDNKIILLLSAGDKSTQIKDINKAKDILKELS

>gene_1418|GeneMark.hmm|98_aa|+|6737|7033 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MEKFNDYLTQLQDQDEL VAYINAAL EQYSIDQNKELFLAAIKEAIIARGGVTKVAIQAH

INRQHYYRMLSSKGNPSFDNIGILLSVLGTRLMVEARA

>gene_1419|GeneMark.hmm|64_aa|-|7092|7286 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
VVYEESIANHAAGAFVAILEGLDVGNGKHHGKQRFKSVISVFIIAISYILYYPINDRM
NNYN

>gene_1420|GeneMark.hmm|510_aa|-|7666|9198 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSSSRSTRVNAKHLLSGDFSRNEGDWVRTQTWLRVFKILLQEDNLNTISEIDSTELKSLV
STHGVLGDSDFKGRQGRQEKTSAQDSFKQVITLLTRSINEETINSAKVSEFLKLFEGT
PLEEYVISSANTLTKAKCTEHARPYSRAFEALDLESTGLFKMLSAFNPFSSFVDTSIIP
RNLFKMWVTPKTPDYDTIMSILSNTQETTIQNLKGDQVETKSIATLVATLNDTDTDELD
FGSASETSESTESVSSDLDTSTFTVSRSTVDLEVKSHTPGTLSDERIFSACTTGDIKT
VSTMLNGGYDVNSHETYDRPPLLLAVSVSDPNLALVSLLDKADVTARSTDDKGVLEHI
QEDSLDMHPGATKDIIAKIASKFLDMGRIGQFVDELPSYLIDAQLNLWINALPEKVTQAI
KSIKYSLHQDKLTSLQEALPLATSEEVPIELPLAEDLSQVDLLSLSLHDLFRKFLQDNPS
VLGLTAGELAGTFSEEHSTMGDSLDPHPAD

>gene_1421|GeneMark.hmm|75_aa|-|9195|9422 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
VIRKDVTYLQCCLIKIRKLFVFLGNVNIFVIESARRREALSAKTIRFMPLVSAKNERSL
MCDKCLLIKYRMML

>gene_1422|GeneMark.hmm|360_aa|+|9550|10632 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSIDRKTIVVAMSGGVDSSVVAAMLHKAGHKVIGITLQLYDYGEALQKKGACCAGQDIYD
AKMVADKLGFPHYIFDYESKFKEEVIDDFVDSYLRGETPLPCVRCNQSVKFKDLLRAAKE
LNADALATGHYVQKIVNNGMSELHKGVLLEEKDQSYFLFSTTQEQLDYLMFPLGGYSKDKT
RELAREFGLEIADKPDSDICFVPNGNYRDIIDKARPDAMKPGRFMHIDGFDLGGHKGIA
GYTVGQRKGLGIAFGKPIYVIKIDPQTNTVYVGAESALFKTKFLLKDINWIARDKNPEGL
EIIAKIRSTTPGVLARLNYKDGQLQVTLLEREKAVTPGQACVFDGSRVLDGGGWITREIE

>gene_1423|GeneMark.hmm|471_aa|+|10732|12147 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MKFFKKKSFESVKDAGGTSGLDRTLDLILLGLGGIVGTGVFALTGMVAAQYAGPAVT
ISYIIAGVTCIFVALVYTELATMLPTSGSVYTYSYVAFGEMVAWLVGSAIIELCFSASA
VAGSWSAYVQGFESAGAPLPKMLTNSPFEGGIVNLPAFLIVFVGCMLYRGTKESKLN
NILVFIKMAAIFIFFAAPHFDAANWENFMPNGFDDVLYGSSILFFAFTGFGTLASAAE
ECKDPKRNLTIIGSLVLATIVYVVVAVLTGIVPFGDLDNAQPLAYALKQTGNGIGST
LVATGAVAGMTTIVIMMNIYQSRIFYVIARDGLLPKSLAKLHHKYDSPYMTILVFTTLIA
VMGALIPYGILAQSSMGALVDYMMVAVVMMFRIQKPDVERPFKCPVFIAPLALMAS
FYLLFKQIISKHGEMLLTGKIFIYWFIIIMFVLYVMKSSLFSAKEQIDNAAD

>gene_1424|GeneMark.hmm|450_aa|+|12243|13595 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
LYFKIKPIQVKLMSVMDSTFNAVIFLEDFFWAYIGWALIVSAGIYLTII SRGLQFRVLFN

FRSNIKNIYCEASKSKNGGVHPFKLYFASVGGMVGLGNIVIISMAMVIGGPGSIFWTVLA
SFSGMLLKYEIYLGVKYRVQNPNGGFNGGPMYFLQKAFKPKIFAYIFAFLMCLYGVEVS
NFLIIVDRMEHSFEFNRYAVIFALLAVTIYSAIGGIERLANICTAIMPVFMIGYVILAIY
IIFINASLLPEFFKTVIVSAFTPHAQIGGFAGSSVILAAQLGISKAVYSGDIGIGYDSII
QSETRIVNPHDQATLAIYALFTDTFICLLTNVMIGVTGAWYTLNHLVPSDIVSKILSEYI
PYSDVFM TLLFFAGFTTIIAYLAAGIKCEFISQKYGKMIYLSYAIFAFIFVCNFSQTN
AIIIMSLLAGLLVLLNICGILRLRKDIEFK

>gene_1425|GeneMark.hmm|429_aa|+|13636|14925 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MKDLLPDDFRIHKHIEEIAFNTAKLYGYEGFATPMLEYVSVFDRTLGEEESDVVSKEMYSF
HDKKGRHIALRPEFTASVMRAFISNGLKQKLPKLFSSGALFRYDRPQKGRQRQFHQLNF
EYLGASGAYSDAETIALAAHVLENLGLLADVTELENSLGCRESKQNYQAALSAYFAQYVG
ELSEDSKKRLEKNPILILDSKDESDKIAKDAPVITDYYTKDAASYFQEVRSNLDMLGVS
YVVPRLARGLDYSSHTAFEFVTTSLGAQSTVLAGGRYDGLSELMGGDKMPAIGFAAGIE
RIALMGEFSPAERRVYVIPIGAECADYASRVTNILRRGGVQTSLSFEGKIAKRMQSALA
ADASFVFIGSEEKAKGTYKLDLDAGSEIEVNSAEELLEITQQQVVQQQIARQQIARQQV
APQKTRQGGQ

>gene_1426|GeneMark.hmm|333_aa|+|14988|15989 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
VDYSDALALCGDEVINISSIGAKINSRHRKYSPLNAPWCVFSKLYLKILTILLKPDII
ICHGNRAISFASEFRFGIFDKNIPIVGVAHNYSYKHLKKCDYVIALTENLQEHLVARGIA
SKQILRIPNMARVGREYKQKEFSSPAAGSPEAGLPVVIGSFGRFVAKKGFVYLIEAINIL
KQNGHDVRLVLGGSGQDREMLKEKQELKLEGEVSIEGWVTDKDAFFQQMDIFCLPSVVE
PFGIILLEAMEHSKPIIATKSGGPEEVIRDNVGDGLLARVESSEDLARKIEQLIMDQDLAH
RLARSGYLRLKENYDINIVAKNLSNSLNRLIKK

>gene_1427|GeneMark.hmm|425_aa|+|15986|17263 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSFNSSKLPNGLDVVTYSMEQVNSVAINIIVNVGSRVETEEEAGISHFLEHMAFKGTTNR
TALEIAKEFDAIGGQFNAYTSREHTVYCTKVLSQHTDQALDMLSDILQNSLFEEGDIKKE
LGVILQEIAGVNDSPDDLVIYERFYLAYPNQPIGKSIKGTGENIAKFDKNAFQKYMAQHY
RPDNIVISMAGKVTHEEAQAQVSKFFSNMGSSKQEPHMQTSHPLAQYVGGYHFTPKELEQ
TTIALGFSSVSYADLKLIFYHAQILSIILGGGLSSRLFQRVREELGLAYSIGSWVNAFADS
GTFSISAAADHNNIAVLLENIVIEVNKIKTDISEEELKAKAQIETNIYMAEERSEYKSE
EVGKNFALFRKYSPIEEVM DIVLSTTTDDLHAMAAEIFASNPTLSIVGAPQKDVSNFNIQ
DKLLK

>gene_1428|GeneMark.hmm|212_aa|+|17330|17968 >NVVL01000061.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MFSKDKHKMLNLCILASESLEKIGQKRKNGKTKIAELMEDFYENGILLAMIFFSLPVAIPL
PYPPGFTTIMGVPLVILSIQLLIGSKKVLRLPEKINNYEMKNATLKTISKIVPIIKYVEK
YVKPRFEFAKSVYCEQFVGFVCLIAAIAVALPIPFTNAIPALGVTIMSLGLLNRDGLVII
AGFVITVVGVVIAISIAVSVAVQYLFHMIF

>gene_1429|GeneMark.hmm|236_aa|+|17991|18701 >NVVL01000061.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MQKDLIYKGSTKSLYHHEKEHMLKMSFEDTLKTSADLIEIPGKGIINNSISSYIMQQLD
LIGVATHFVKKENMRQQTIQHTDIYPIQIHIATVASGRYVTDGMEPGLIFETPLIDFRV
KNKKIGYPPVNESQIMHFGWLYKEEIEDLKTRAMRVHDFLYGLFAGVQIRMIDVKLEFGR
VYDEENFMIMLADEISPDTCRLWDMNSNEKLSYEIAEEDPEKILPAYQEVLRRLLEG

>gene_1430|GeneMark.hmm|704_aa|-|18753|20867 >NVVL01000061.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MSSKLTIFTLKDIRDMPESRVVIILNDQVYDVTDYLVCHPGGREVLENRKRKDATEAFSA
IGHSDRAEEILKEYKIGSLAEKERSGGPPLQSNALSSSPEPLKRVMHKIKLVTEEDPYF
FHKIFGLIVLLHMAIRFIVLGLDAGEVIIQRDIIGFNSDNVFSDBGTKLFFAFCHGILSVS
SFIFAVPKHSSQNKPMIHQMFRGHVCFASRAVLCMVVDVVLVQSPELKRFLISCIVLSCL
IAADQITKYLATEDDRYKTTNSMPYWRGCSVEREHLHKTFFAFAQFLASIIICLFGSYTTI
FFTLPAIQGAALLMTLRKNIITSHSYHQIYTFLLFYPIPLFLVLWPAKTIFAIILSGVL
YYLRSRNINKYLLWIPVLI MANMIELTPENYPNGLIIGAAIFLLTYIVKSNAKIETER
IDGNRRVSHKQITPDAYELIIRTQTPIKLEIGQHVLIQINDSLNRKYTPIWTKYLPETD
QTLCLRIKEYKSTERLTASSYLARCGEESVLALHGPYGNKFCPKNDAAIIDKINKCQYN
LEDYQVYLFSAAGSITPIYQLAKNICKPGQKRGDSKNGGEGKDGKEKGREKGGKNEKLT
ITCDQKHENQMMKDELTLKEDFPNELDWLCLFSREGKNSPDIPATIFKERLTPGKLMNI
VKCDSPSLIIICGPKDWQEMIQQTINLIDFDLKDPPPCKVLA

>gene_1431|GeneMark.hmm|994_aa|-|21191|24175 >NVVL01000061.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23964, whole genome shotgun sequence
MARERKAGISYLEQQKARYNIRINVVKSLYASKLKNPETPDHDLKLSFISILNLTNI
ASSRKLKAFYSLNLAFPDVIKSLFGLDAKFFSNLNKLTPEEKNSIRDFLYFATDAYISLD
KKESLFHIAAKFGAASVLESMLRTCSDEKGSINSNNQNFLYNLKLKLYGHNELHQTMLENHP
ELNELDTHPLLLKSPPEMSPSALDSMNGVAYYYYISIFGLTPEYNCNTRNSYSNKALK
HLIDYCNAPINTHNPLAITCLLDIYHASKNENLLTVLQSTCSNASDLSQYFIASCIKAI
QTKDTDYLDKAYKFKSSNSLEAHVIIAVYAVKHGDWTFYKAIRDDVSVEQPFRALQDVD
NNIARVFAAFNQNQEIIDAESDLEFKAKLKAASVTVQGLCARLVNVDATAALCSQEIPLP
SAIKKSPQLLIEACKLALALQSTDIDGAIEIFNTVIHVMTRMPGISLRAKVEIFILKGG
ALQEKSVRILKLWGQVPQSKDIDIDSEVRNTIDNAIMVYDKALNHIWEASGDAQALYNSV
LEYGVENAYPNELKIKLSELNIFGKFREILYHKFYCYIIQRDSNALICASLLDYSPDEE
PKLYTLLARKAAGGDPVFAEFLAIDPDTLSPKTKAVYKKIAPILIRCNEKDIADTETSI
GAMEAELTSVQEELKQTHPEQPTSTQLVQFTHPGKEGRFIKSEVKVRFMNLEDLPYEFFT
THIKALAGCKAGEVWLWLSRLKSHHRIFQSECQKIQDGRSNVLQKKGVDKLLAEYDSIL
ENHENRELSALITPKNHNLKEFHKEVQHFTLNLLQIVFGIQAIFLGRNEYARKLLESF
EANPSQKMLKICIEIGEEDELLTPLEDLLSTSQGLASIPETEILKTRTHHTTKCPYTSN
FLGIYTDWLDALPSQLAVQTSALPNEEAERTLLQSAAPSSKSPSTVEVFEYFNFVLDVLL
MPDSDHDVDLYGKPISTHNTGEFVFAEVDTLFFF

>gene_1432|GeneMark.hmm|185_aa|-|174|731 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MEESQKQELTAKMEKTMAVLDRELKGLRTGRASVNLDPVVVEVYGSKMPLSQMGTVSTP
DAKTITVQVWDKGMVKTAEKAIADANLGLNPSSDGQLIRMSLPLDEERRKDLVKIAYKC

AENTKIALRSVRRDGM DGLKKMEKANEISKDEHSHHGEEVQKLT DGFIGKVDSL VKSKEQ
EILTI

>gene_1433|GeneMark.hmm|239_aa|-|737|1456 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MSLTEYKRVLFKVS GEALMGARSFGHDQETLKGISEDIKEVCELGVQVCAVVG GGNIRG
ADAEILGMERASADYMGMLATVINALALQNALEQSGVYTRIQSAIPMTSICEPFIRRKAR
RHMQKGRVVI FAAGIGSPFFTTDSAAVLRVEMECDLLKGTNVDGVYDDD PKQNPNAKK
YDEVTYTDVLRDNLKVM DMAAIAVAREN NLPKIVFSIKKRG NFAKVLQDQGIYTLIKGN

>gene_1434|GeneMark.hmm|724_aa|+|1691|3865 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MPKLTIDDKEIEI EAGATVMQACQQAGIEVPHFCFHDRLKIAGNCRMCLVEMEKSPKPIA
SCAMPVSEG MNIKTNTPLVKKAREGVM EFLINHP LDCPICDQGGEC DLQDQAFKYGKGS
NRYTENKRSVKDKNLG PLVKTQMTRCIHCTRCIRFFNDVAGLQEMGAIGRGEHMEVVSYL
EKSLTSEL SGNVIDLCPVGALTSKPYAFKARSWELTKTNSVDVMDAVGSNIRIDSRGSEV
MRILPRVNE DINEEWLSDKARFAYDGLKAQRLDVPYVKKNGK LKKASWDSAF AAITQKIL
NIKGKEIAAIAGSTASSEPMFLLKLLAKLGS DAVDANQFGYSLDVSARGNYLFNTGIAS
IEKSDLCLLVGANPRQVAPILNARIGKAVRAGTMQIARVGEVDDQTYNIDELGCDAAILT
EIASGKGSFASLLKAKNP AIIIGD GALVREDGEAILVLVHKIVEKYKIVRSDWNGFNIL
HNHASMVGALDIGFHYGSNGTADILDKSQKNDVKMLYLLGADDFDIDKIGKDC FVVYQGH
HGDA AASRADVILPEAAYTEQDGIFVNMEGR PQYAKAAACRLGEAKESWDIILTLARKLD
VALPAKDLSSVRELMAKEHSVFANMDAVQTVDFTCFKSDQKLLKTPIGRVAINYYMTDPI
SRASVTMARCTKDLKEGLEAKKVP ELKKDLDSKGLSKDLSSKDLG TKQSPGSKKDL
EAAL

>gene_1435|GeneMark.hmm|338_aa|+|3862|4878 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MMDLFMDYAF LILIIIAKILLITVPLLLSVAYLTYAERRVIGLMQLRKGP NVVGP MGLLQ
PIADAVKLMFKETIVPTAANKVVFIMAPMVTFVLSLIGWAVIPFDAGMVLADINVG VLYI
LAVSALGVYGIIMAGWASN SKYAFLGAVRSSAQMISYEVSMGLVIVTVLLVTGTLNLSEI
VEYQRTMPFWIQ LLLAPMAVFFISVLAETNRLPFDLPEAEELVAGYNVEYSSMAFALF
FLGEYANMILVSGITVTF FMGGYLPFFNIGFLNFVPGI IWFILKVEVLLFIFLWLRATLP
RYRYDQLMRIGWKVFLPFTLFWVVFASILMLTDSLPG

>gene_1436|GeneMark.hmm|159_aa|+|4891|5370 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MIKYIKSFVLYEILVGMAL TLKYLKPKVTINYPYEKSPVSPRFKGEHALRRYDNGEERC
IACKLCEAICPAQAIVIEAEVRKDGSRRTTRYDIDMTKCIYCGLCQEACPVD AIVEGANF
EFSTETHQELLYDKNRLLKNGEIWEKELSTKLKDDYLYR

>gene_1437|GeneMark.hmm|206_aa|+|5379|5999 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MAVFFYGF AALLILSSVMVISSRN PVHAVLWLIFAFVNASGLMVLIGAEFLAMMLIIYV
GAVAVLFLFVMM LDIKFSEFKSATGSEM GISFLIAFFLV DLSVVVLLGT KIITPHASF
SFNISPDIGSAYAIGKVLYTDFILPFQTSGIILFVAMIASIALTLRMREGVKRQNVSHQL
AQS KESNLTF AKLDGKSGLDNLNYDN

>gene_1438|GeneMark.hmm|105_aa|+|5989|6306 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MTINEISLEHYLILSSLLFSIGVTGLFMNRKNVITILMSVELMLLAVNLNFIAFSAYLQD
VVGQVFSVIILSIAAAEISIGLAILVLYSRNRGSIEIDDINQMKG

>gene_1439|GeneMark.hmm|643_aa|+|6310|8241 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MEFILKSLIFLPLFSGIINGLFCRFTNKLASISSGAITISALCALFIFIEAGIGQNTM
HVTLARWISIDSLINWALYVDQLTAIMFLLVTAVSAVVHIYSLGYMADDKNLPKFLSYL
SLFTFFMLSLVSADNFVQLFFGWEGVGLCSYLLIGYYYHKDSANNAAIKAFIVNRVGDFA
FIIGIVMIIITYTGSIDFENVFGLSENLSKTEVTIWDTNFIVLDIICLMLFLGCMGKSAQI
GMHVWLPDAMEGPTPVSALIIHAATMVTAGVFLIARCSFMFEYSPFVLQIITIVGAVTCLF
AALVAIAQTDIKKIIAYSTCSQLGYMFFACGVSAYQAGIFHLVTHGFFKALLFLSAGSVI
HSCHQQDLFKMGGLRKKMPITYANFWMGSLAIIGIFPFAGFYKDLVLESAYAAGGVGAF
AFALGIIAAILTAIYSLKIIIVLVFHGKTNLSKEAFDHAHESPRIMNLPLILVAGTLFAG
MIGYYILSIDSPYGFSGSIFNLHISESGHHVALGIQLLPLIVGLAGMLFGWYVYGNLNS
DAISGRMKFAYHILKNKFFFDEIFEALFIKPASRLSSLAKIFDSHCIDRLFCGGSAGAAG
IFNWCVCQVQTGYIFNYALYIVFAVVVAITAFVGNLYGVVSI

>gene_1440|GeneMark.hmm|496_aa|+|8243|9733 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MLNLPILSISILLPLLSALYIVFFISNSRSEKKQLYAMYVAILASSLTIATTYLLFSFR
FKIAGFQFVERYSWVDSIGLEFHVGVDAMSVYFIFLSALLTLICIIASLFTIKKHIKEFL
LCFLLESFCIGAFSAINLLLFGFFEVILIPMYLIIGIWGGKDRVAAAFKFFLYTFFGS
VFLIIALIIYISQTGTFSMVELANLAPEFSLEVQQWLWLATFISFAVKVPMVMPFHTWLPD
AHVQAPTAGSVMLAGILLKGGYAFLRVSLPMFPGASEYFAVYVLGISGFAVIYASFVAL
AQDTMKKMIAYSSIAHMGYVTGAIFSFTVKGISGAVFQMISHGLISSALFLIVGMLYERH
HTKEIAKYGGVAASMPVLATFFMIAMLSVGLPGFSGFVGEFLSILSIFEVNPVIGIMCA
FGVIIGAVYMLKLYKCVMFGEVVDKNIINFTDLKLYEKAALVPLICLIYIGLAPNGVLK
ALAVPSANLAQLYGAL

>gene_1441|GeneMark.hmm|466_aa|+|9771|11171 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MLNQFAIILPEMMLALLAMTMQMAGVFLKNHTKHICATTYILGLAIVGYLLYFVPEYELG
FSDSFGVSPAIYFFKAVVLSLALMSLIYQDLAKISQTHLRFEFMTLVLLSTLGVFISIS
AQDFMLLFCGLELQALSGYALAAFDTKRAKSSEAGLKYFVLGALMSALMLLGISFLYGF
GSMNFIDIRVALGSEFNIGLVGAVLMLSSILFKISAAPLHIWTPDVYEGAPISSVYFA
VAQKIGMLVVLINVLGDIVIGNYTAISASLIKIVAIFSMVIGGLGAIQHSKRLMAYSTI
LNIGYVLVAVCLQSHEGSHAAFVYMLIYVVGVMGFFACIVALLGAKADEASFDDLKIGIS
QRKTIAAAISIIMFSMIGLPLAGFFGKYYIFYNAVVMQGEITLALIGVLSSVVAAYYYLK
IIFMYFMEPDGEFIHIPHAGLRFVGVITVSFILLFFSFAQSYLF

>gene_1442|GeneMark.hmm|250_aa|+|11193|11945 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MTLNWLESYNLLTLDKIDSTSAEAQRLARSSAEEDYVVISKEQSAGKATKGREWDSPKGN
LYSSILISSKGLERPELSFLVANAVYDAITSLAISQEVLEDIKLPNDVLLINGKTA

GILLESIFVKDRHYVMIGIGVNULLHAPNHLNCPVTSLFDEGVHPGGAREFLNSLMTNFHR
LYSGWLSDDNNFAKTRSDWMGRAYNLNKVITIDDGLRRTSGVFKEISFDGSMVMQLASGQF
CSLASGEIEL

>gene_1443|GeneMark.hmm|248_aa|+|11935|12681 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
LNYSKRRKKNYNMKNISIIAEPQMGENIGAAARSMKNFGCTDLRIVNPRDGWPNDKAIS
MSVGAIDLQINARLYDSVRDAIADLEYVYAATAAPRGMNKDYVLSRDLRNDMDPCKIGI
MFGRENYGLNNQEISLANKIVTIDTDINFSSLNIAHAIIVICYEIFQTKEQPRTDLENKQ
QLATNVDLEYFYNHFLGELGNRSFFRTPEKKEHMSRKIRNIFSRIDGLSQTELQTLRGIV
TTLRDEK

>gene_1444|GeneMark.hmm|104_aa|+|12730|13044 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MQKIRLSEFYREAIKAFKGFHFGADDHLWIFGSRVDTQQKGGDIDLYIKTQEVDARIANK
MRAQYHQELWKILGEQRIDIVLNIYPFELKLPYIEIAENGVLV

>gene_1445|GeneMark.hmm|152_aa|+|13064|13522 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MISLLKEHLKIARIHALRIKEAREAINHLFPPTPAIIIEELTCSDIAFLELYTNRFSKLQD
LIGAKMFPEILLYGEDLQALFFIDRLNKMEKIGILNDAQEWLYMRKISKQLSHEYPENP
EFLADNLNIICKLEPELLACLANIEKLAKTMI

>gene_1446|GeneMark.hmm|169_aa|+|13519|14028 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MNYFKLLELEQKYDIAPSLLEQQYLNKQLTYHPDKAESEPMRGKYLEISMQLNDAYKILK
DDYMRAEYMLKLSGQKFDLTLKNKLSNSEIEEIIIDEYELIDEIDQLPKLKEIQLAKNSD
KLKLTKELTDCFSNNETAKALDLTVRLKYLTNLVRNIKLIKHADSRDQ

>gene_1447|GeneMark.hmm|605_aa|+|14006|15823 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MQQVEISEPNSEDEGANEAPEIVVIGIDFGTTNSLIAISNDSSAKIIMHDGAELLPSVIEI
IDDEIIIIGNKATQNPDAIRSIRLLAKTSKEIKSAYAGSALSGLALEESEPKILAKGRK
FTITEMASEILKYLSQAEASLETDVNVKAVISVPAHFNNTQRGQVLLAAKLAGFSVMRLI
SEPTAAAYAYGLGKSARGAYLVYDFGGGTFDVTVLNMHQSVLQVVATGGDNMLGGDDIDM
ILAKYIAKETNSDLNNEIALAKTKEDFADKNEVALNFNSTNIVISKAKYEELITPIIN
KTIKIAKDTLHEAEDIDLNGIILVGGSTRVSLIKEKLNKAFALPIYSDLDPKIVALGAA
LQAENLSSRSGSLLIDVVPLSIGLELYGGIAEKIILRNTPIPFVSTKEFTTHADNQTGIN
FHVVQGEREMVKDCKSLAKFELDSLSPMKAGKARIEVTFAMDADGILSITALDAESGRAQ
NIEINPGNDLNEKEINEALSIAFQNASADHLARLLAEARADAQSLISGIEKAMLDTPDIL
NEPEKNQIDIAISSLQKEINSDNRDEILLKIDELNKLAAGFIQKHLDKGADLLKGRHID
NINSK

>gene_1448|GeneMark.hmm|112_aa|+|15831|16169 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MAAETIKVIFIEDGTEKEIEALVGLSILEIAHENDIDLEGACEGLACATCHVVLEEKTY
NSLEEPEEAEDMLDLAFLGTHTSRLGCQIILTKELDGMRILLPSATRNINL

>gene_1449|GeneMark.hmm|355_aa|+|16174|17241 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MIRKIALFTILVLIWFSWAYLIKGNILKAIDNLASDNIFSYQGSKISGFDFDLKLR
ISPKVTIIDQTSLEHSTKEIEFKFGYSFKSSVINLGGKIIYNKSNNGNAKQEYTLSEEN
IIIAAGFKRPFMSPSLGAVKDIASIHLLPKLECRDRSNSSSSSDDTGSASGGGGGGG
GDSHNQPLFTASSIELLSLQETDNIEDRFSLKFTGEYDAPSQLSKIAKAHLSANLNYISK
REYKEPKEVNFEEKLEIQNIKLLGDALLAINGALKLTKSALPQGRINVSMVKYQEIIDA
LIPENFIISPSRLKKTIDKTTTPQAINPASADFHIFSEKGISMESSAKKLRPQT

>gene_1450|GeneMark.hmm|230_aa|-|17402|18094 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MTDFQIYSELYSRLGIKDTVYLAFRDIPELINKHVSGRKTLDGFCGAGRSARFLKELGME
VNGVDSSIEMITQAKKIDDSISYEHISNNYFTQHSEYDVLVSSFFVFETSSLDLMLLEIF
QLIHKTLKNDGIFILITGSMEMYSHNWLSLDANYPENKNPTSGSLVKIKLKNVDLELDDY
FWTDDDYKITAAGKAGFSLEMHNPIGTKHDGYKWKSEEIVSPYSIYVFKK

>gene_1451|GeneMark.hmm|247_aa|-|18102|18845 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
LADNLKINLMNQVTKNNILAELMKECGIDDIKLSQYTNVPISSISRIRLAKNCNPTIST
LQPLADFFDVSIEQFLNYQPLDDDRIPGTHKPTLFTSSMLPVIKWSDVIDFIDNKETFFS
NKKIEWVASEQETSENSFAVEIPDASFALFLKKGSTILIDSEKTIKNGDFVLFKVKKNKL
IVLKQVLEKDNVYIKSMNSKTNTTRTIPESYITLGNVIEIRCNLQSAPKQNNPRTNAIN
ILNPLKI

>gene_1452|GeneMark.hmm|312_aa|+|19103|20041 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MFFKSLSSLFVDSISLNKSKYKVLSDIDEGQIPPEVICEIADGTEIKFKLEDIKENKL
KYFMSKDALQIANCFQIKISNSNAIRERNQDNKYLHTLSQMFTVLFIVSNIAAAKLSSF
QGIAFCGGIITFPMLYVLNDVITEVYGFRRSRRVIWTALFYNLLAFSLLYLAIFLPHHDS
WSNHEAFEKVFSLSPRIFVASMYSYLVGEFFNSVLLANLKIKNRFFGLRALFSTLSAS
FVDTAIFFFILFWGVIPYTEMIPMVVILGLVKVLYEALLIPLTIRLVAFLLKENSDFE
KPSLSNMMLFTG

>gene_1453|GeneMark.hmm|74_aa|+|20046|20270 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MILEDKDNTPELYAKYKITGTPYLPFRDMPNINLKYVEGKKALDFGSGAGESTIFLKS LG
FDTIGVDINEITRV

>gene_1454|GeneMark.hmm|60_aa|+|20367|20549 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
LQSGARVKIEFRNIDLTIIDYWTQENYTEIFQKAGLHIIHNP LGMQVMGMNGGTRQC

>gene_1455|GeneMark.hmm|972_aa|-|20739|23657 >NVVL01000062.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
MLFGVEIGLDMGIVIGLLLLLIIGVFFCKGVNSIKQYAIADRNFSTGVLAATITATWIG
GGFFSLTISKTYSDGINYIILGLCEVVAFLVLATLIAPRIKSFLGSLSVAESMGTLYGKN

AQIITALVGIARVTGTIAIQFKVCSTVLTYFFGISSTYSTIVSASIIMFYTALGGIRAVT
FTDVIQFITFTIFIPILSMTIWGTIDNPQIVLDTINTNPALNFTKLASLSGTELYSFIAL
IILFIIPGLDPAIFQRIIISKDITQAKHSLYIATGAFLFISLVTFWMGVLLLSNAPDLNP
VDLLGYVVDYTYTGLKGLLAGILAMLMSTADSYIHSASILFSHDFCVPLNLQWAQKNE
LLLSRIFAVVISIFALMLALSTANLFEILVMAGFYMPLVTVPLLLAIFGFRTSVKSYSF
GIIVGFSTLFPRIFDLGDGAIIVISIFLVALSILSFHYLLNQGGWKLYQKEVLCTN
NTCSHSCKLLWQVQNFNIVEFCKMNTPKNEITYTLVGLFFIVAVFSTMYSISFDIRHQY
PKLLEFIYHSVLTISSGFLTYPMWPPRFKNQNFGAIFWIMGLFYILVFGCLQVIISNFG
QFQLMVFLLGIVILSTLVRWQAALLLIITGCISSVYFFKQWYAGIEQLNGGFGGLQFKIMY
VLILLSSILIVFFKPKQEHLEQTEHRVGELSDEVGTLVAVVSSRDSQISTLDTKVSGLLE
RVDHYTERTTNAQAEIERLGATAQRILNNVNHELRLPVGNVMMNFSEMLHDGLKLSDEQL
KMLSKEVYQNSNRLSTMILNMLDLATLQAKKIELQIKLANFSELVEERLTACRKIYVEEK
PLKFIIEKNVMVPMDANYIRQTIDNLVINAINFSEKGIKLVIVARQTNFVFTTIQDQG
IGIPLSELYDVFTPFKMGSNTEKAEGRGVGLALCKAAVNAHGGEVKVLESSGAGVLFRRVV
LPLESDRGRPRS

>gene_1456|GeneMark.hmm|91_aa|-|24062|24337 >NVVL01000062.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_23967, whole genome shotgun sequence
LVTVAKQTNFVFTTIKQDGIGIPLRELYDVFTPFKMGSNTEKAEGRGVGLALCKAAVNA
HGGEVKVLESSGAGVLFRRVVLPLASDRGRPRS

>gene_1457|GeneMark.hmm|468_aa|-|179|1585 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MAKYEKNIMSFKDLPAFLKLEKNGHLKRITIEVSTKLEITEISRRFLAKDGPALLFENV
IKEDGTKSEYPVLTNLFASKQRIAMGLGMKDASELREFGALLAFMKHPEPPTSLKETFSM
LPIAKRILSMPPKTVSKAPSQEVVIKPNPDLILPIQTCWPGDVGPLITWPLIVTKGAGSE
KTDNYNLGIYRLQPAGRNLIMRWLKMARGGAQHHEKWKRTQQKMPAAAVIGANPALILA
AVMPIPNTMSEYNFAGLLQNKAIIDLVRCKTSDLKVPAAHEIIIIEGEVSMSEYLPEGPFGD
HTGYNDVELFPVFNVTAITMKKKPIYLSTYTGKPPDEPSILGEALNEIFVPLIQQQFPE
ITDFYLPPEGCSYRICIVSIKTYAGQSKRVMMGIWSYLQQFTYTKYIIVVDDDIIRDW
KEVMWAISTRTPKRDSTFIESAPIDYLDFAESPESGMGSKMGIDATNK

>gene_1458|GeneMark.hmm|356_aa|-|1558|2628 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MQTYKKYLSSILPPMAMLTLLTSLVWITQTLKYIFLIDKGIALATFFRLTILLVPYLL
YMILPIITVITIIYVYNHLQDGRQLIIFRNSGLSNYQLAKPALLVAICFTIITWYISMHL
MPFSYNLMKQEMANFKEGYISKIIDAFTNQISKYHTVYVDKKNPDGTLEAVLLFDNKVS
ANRTMLFAKTGRITISDEQHIEFELNDGFRHSYDHLGNLTCLYFDNLAVIINGETNASHT
RKNSSELFINEMLFPDASLPLKRNRLIADGHSRLVWPLFNFAFVFLALSIFLNQPHNRA
HIKPFILTFPLLLASYLHFTLQKLAYKNLDYIFLCYANVFLCICAIWQNMKKT

>gene_1459|GeneMark.hmm|496_aa|+|2904|4394 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MRGKLTVGETTIDLFDMNLQKVLNVLNLTNTNQEEVVFKAFTGGRGFLDAILSVYSRAC
SNGEEADMMLMPLFVKRMKALFAKNELWGTAQEPGVQLVGLATELDRLLILNEDATIPDL
QARLNRLIQAPQAQLTVMQNLPEITNPAALAKQIRCLELGERIRNASDTSEGELESTLQFG

EASTVISSDSGGIAEIESKSLNLHLEGKRLGNASDLLFESACSNAPPTAPVLLAIIGAGE
KTWGYPMTDYRIQTMRFQFFGTTFSYGDGVHEISKQMSLAVLNTHLSCMQKESHGQQYS
KANLGVVLFYAHGAESEDGRVTKLVEIVNTRLSSIFERTVVIHACYSQYHDLELGENV
FMITSASHKNPQSSLISSFNALKDVAKYFPQGRADLPGFLELFASYEASQPAFSGKIGD
ELFKGIEIAELLSSSDIVAALAELESPDASPAASEELEQPHCTIAVHDFSNIHEDAPGNP
ALIGDDDGALDVVAS

>gene_1460|GeneMark.hmm|112_aa|-|4424|4762 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MTQKQIMSIDAASQVKALLSQRGKPSVGIRIGVKSGGCSGLKYFVEYADEKNQFDEMI
CDKEITILIDPKALMYLLGTRMDYAEFEFKAGFTFTNPNEKAKCGCGSSFN

>gene_1461|GeneMark.hmm|126_aa|-|4759|5139 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MAYSEEVIDHYENPRNVGAMDKKDETVGTGLVGAPACGDVLLKQIKVNDSGIITDAKFKA
FGCGSAIASSSLVSEWVKGNLDDAMAIAKNTAKHLSLPPVKLHCSMLAEDAIAKAISD
YKQKQK

>gene_1462|GeneMark.hmm|418_aa|-|5164|6420 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MHNYTELKQRIVDEGGRFPIYLDNQSTTKTDPVVAAEMMPYFTDKFGNPHSRSHSYAWET
EDACEIGRARVANLIGANPKEIIFTSGATESNNLALRGIAQFYGSKKKHIVTVVTEHKCI
LDTCRYLQQDGFKVTYLPVQANGIVDLNVLDAITEDTMLVSVMAVNNEIGVIQPLKEIG
KICREKGTFFHSDIAQAFGKIPINVNECNIDLASISGHKIYAPNGIGALYIRRKPRVRVS
PMITGGGQERGIRSGTLSTPLVVGFGKAAEAGLEMEKDQKHVRKLFDKFLTAIQSNAEE
VFLNGDKEQRYHGNNLSFAHIEGESMILAIKDLAVSSGSACTSASLEPSYVLRALGVDE
ATAHTSIRFGFRFTTEAEVDFAEIVILANINKLRELSPLWEMHQEGIDINSIKWSTH

>gene_1463|GeneMark.hmm|373_aa|-|6413|7534 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MIYLDHNATTILHPFVKTKMDEIALFPINPSATHSYGRKKGKILENARRSIARLLCFDDC
HKDYQVTFTSSGTEANNLILFNDAEIFISATEHPSILSHKKFSSNIQTIKVDEDGILD
FDDLINKLQNSKSEKLVSVMLANNETGVIQPIKIAKIAHEHGAIMHSDCVQAIGKINV
NILDLDLFVVISGKFGGPIGVGALIGKASILLKPMILGGGQEKNLRAGTENVHGIAGL
GEAALLAKKELTSRNTHMRKLQKQLESALLESFPEIKIAGMKSERLPNTSLILNSRKKAE
IQLIAFDLKNIAISSGSACSSGKIGLSYVLEEMGCSEREARSARVSVGAGSTEEDIDNF
IKIYKEINKESYA

>gene_1464|GeneMark.hmm|129_aa|-|7537|7926 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MAVTEVAESSDGNTPMKLADISTNQNIPLNYLEQIFLKLKARLVNSVKGPGGGYYLAEP
SDKINIEQIVNAVEENLKMTRCSKDKSCRKNGVSCKTHNLWKGLGRQIRNYLASISIADV
VSGNVNLGE

>gene_1465|GeneMark.hmm|110_aa|+|8219|8551 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MLYLLVGILFILGRLAIKLITKKGIVVMPKEACTNKSEIWNKSGTVASKDDDDDAVATL

GQAVSSKVTGGNIEIVTVGESFDEGESENEGEGSNEIVAAGETANSEEGQ

>gene_1466|GeneMark.hmm|422_aa|+|8946|10214 >NVVL01000063.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MKTIKRLLQPLILEALQSFPVYINGPRQAGKTTLARTLLAKEFKAKYITFDDPLERAAA
MRNPLGYVRESGIPLIIDEVQMAPNIFRSLKMLIDEQRMEALSSSSAAASSSANGHYLLT
GSANLMVIPELADAMVGRMATLTLPLSASEVKNSTSHFLDYCFTKDFSKIKADNTKLTE
IMRQASFPPELMQMPESMVDKWLGNVIQKVTLEDPRYIYNLEKAEFMPALLQSLAVRAGNL
INDASIGREIGLNVVTRNYRALLNGTFVTNTLSPWYRNITKRLVKSDKIFFHDTMLLCY
LLQSTPEELVKNQPSRFHVLNENFVLSLCKANFASGEKVNISFYRTNDGREVDFILEKQ
NKLVAIEVKHAENINDKDLAGIKEFQAHTGND FCCGIVLCNTPRVIAYGKDIYLVPSAL
WQ

>gene_1467|GeneMark.hmm|603_aa|-|10600|12411 >NVVL01000063.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MHTFRTHHCNELKSQHVGQRVKLSGWWHRRRDHGNLLFIDLRDHYGITQLVFTDKDLSLK
DKATHLRYESVITVEGTVVARSNETANNSIETGQIEVDAEKYILESDSEMLPLIVNSDQD
APEDTRLKYRFLDLRREKLHSNIMLRSNIISEMRKLMTEAGTFEQTPILTASSEPGARD
FLVPSRMHPGKIFYALPQAPQQFKQMLMMSGFDKYFQIAPCFRDEDARADRSPGEFYQLDI
EMAFVTQEDVFAAIEPILFNIFNKFGNKKLSVSSFARIPYAEAMLKYGTDKPDTRNPLEI
TDVTDLFKDAEFTLFREAACKGAVVRAIPAPGASTKSRKFFDGMTKFAINEGAGGLGYVN
FAEDGTAKGPIAKFLNDDQLAKLQELAKISAGDAVFFACDKELAAAKLAGKVRTKLGQEL
ELIPDDVFELCWVTFDFPYEMNEDTKKIDFSHNPFSPMPQGGLEALENAKTEEELLAIAKAF
QYDIVCNGIELSSGAIRNHKPDLMYKAFAEIAAGYSQEEVDKEFGGMIRAFKFGAPPHGGIA
PGVDRIVMMLAETANIREVIAFPMNQQAEDLLMEAPNHVSEAQLRELNIMLSPSVKSKLA
KKD

>gene_1468|GeneMark.hmm|286_aa|+|12488|13348 >NVVL01000063.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MQLIKNQEDFDKICEKLETEQTLFIDTEFQRKKTYAKLSLVQIASKHHKVVIDVLLIDD
LTGLKNLLANEEILKVFHAPDQDLDFLHIFKQLPKNIFDTQIAAWVWGLDECMGYSRLC
KALLNLELDKSLQNSNWLKRPLTDDLLEYAIKDVEYLIPLHRELSATLTRKRLWDTYNDK
SAKWLKEGTYKINPDKVIKRMKLLDYSRKYKHKIKSLILLRECAQTLDLPRFFCAADKD
LTRLCRELPTTEAELVKMNFLKKPIARRQFKKKLLELCAGLREFKL

>gene_1469|GeneMark.hmm|177_aa|+|13430|13963 >NVVL01000063.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MKIKFALLTKLVAPISVALISLVALVTSPAIASDYPQSRLEREIEETGSLLKGDGLTFRP
GKERSTATKATIGNVNKYLYQASIDVLKFAPLASSDSNAGVIVTDWYSPKGQKNTQFKVT
VYIRDKLISPEALEVVVFQRDKTGGKWPSDYKESPIAATFEDKIIRKARDLYLNSAK

>gene_1470|GeneMark.hmm|842_aa|+|13974|16502 >NVVL01000063.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MNILEIERKWQQRWDQDEAFVAKNDSKPKYVLEMFPYPSGKFHVGHLRNYAIGDVISR
YLQASGYNVLHPMGWDAFGLPAENAAIANDTHPADWTYANIDSMRAQLKSVGLSYDWNRE
LASCSPDYKHEQKFFDLLARGAAYQKESVNWDPVDNTVLANEQVVDGRGWRSGALVE
KKYLKQWFLKITDYADELLTDIDSLSEWPENVKTMQRNWIGKSEGARFHFVQNLDEKIE

VYSTRPEVIFGASFVAIAYNHPLTQKIAINDEMKAFIDKCAHHSTSESELEKDDKECVYT
GLYASHPFDKTIKLPIVIANFVLM DYGTGAVYGC PAHDQRDFELVQNTKDLEITQVVHSD
NHEIDL SKHAYIYGSD DVMINSDFLDGLQTDQARAKIIDKMEELGIGSRETNYRLRDWGI
SRQRYWGCPPIIYCESC GAVPVPEEDLPVELPRDISFEKTGNPLDLHPTWKYVDCPKCQ
SKGVRETDTFDTFFESSWYFTRFC DNKAKDMADKKAADYWLPVDQYIGGVEHAILHLLYA
RFFTKAMSDVGYLNVREPFKRLLTQGMVLHATYKDKDGKWLYPEEVVEKDGKYLHAKTGD
EVFKGKIEKMSKSKLNIIDLETMLATHGADVIRMFVLS DSPAEKDLEW SMAGIDGCKKFI
SRLVSLVKKLPDLEGVNGGAEDKNLQASIHRTIADVSD DLMNYRLNKAIRIRELYNATQ
SALSAAKPDTASICEAARVMIQLLSPFIPHITEELWEM LGNKVPLYKTSWPKADKSKLVS
DSYVMAIQVKGLRATHEFAVSATDAEIKEVAINLP AITKHIGDAAIRKIIVVPKKIINI
VI

>gene_1471|GeneMark.hmm|231_aa|+|16503|17198 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MRIAKFIANAGICSRRAAERLIEDGEVSVDGEVIDSPALNISDENI IKVGGKLVGAIPKA
RLWVYYKPLGLITTNSDPQDRPTIFQALEGKLP RVISVGRDLINSEGLLLL TNNGDLSRY
LESPSTNCERIYKVRTFGKGREVAIRNKKIVIDGVNYHPKLISLTKKTVSNSWYKVVLTE
GKNREIRRLF EHFGEVSR LIRTFDGKYS LGNMKPGDLLEVTIDQNYSWKT

>gene_1472|GeneMark.hmm|188_aa|+|17170|17736 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
LIRIAGKHKNRVIPTLKKADYRPSTTKFREALFSILSSGEFAESQPVTGATLLDLFAGT
GALSFEALSRGAGSITLIDSNETHLKLAK EFAAKIGEEDNVTTLTANALLPKSITKYDL
VFMDPPYYNDMVAKSLKCLIKRDWLANGALIAIEMSARERL DLLDGLILLKEKRYGNK L
LILKYEQS

>gene_1473|GeneMark.hmm|445_aa|+|17723|19060 >NVVL01000063.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24304, whole genome shotgun sequence
MSKVKKQYSCASCSTSSKWSGQCPDCMEWGTISEEMSSASRIMVPKTGTPQQQLQSLSDQ
VESTIRTKTPIEELNRVLGGGLVSGSAILIGGDPGIGKSTLLLQLSASLSQNNTGCLYIT
GEESINQIKLRAQRDIDKDTKTGLLAATNVEDIISTIDQNKKELDLVVIDSIQTISTSEL
SSAPGTVSQIRASAHMLIN YAKQNSITLLIACHVNKDGQLAGPKVLEHMVDTVLYFEGDH
NNHFRILRSIKNRFGAVNEIGVFEMTAKGLIEIANPSELFLMERENNVSGSAVFAGIEGS
RPLLEIQALIAPSNMATPRRSVVGWDHNRLSMIIAVLSVRFGLNLT SHEVYLSVAGGLR
ITEPAADLAVAAA LISAASNAPLPQGSVFFGEVGLSGEVRKVSQTEARVKEASKLGFKKM
YCCSKEKLSVEAIMHLRQLKDVIV

>gene_1474|GeneMark.hmm|597_aa|-|379|2172 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MENSTRQVVLKDVQIDGYKRMKEILCYRSCVINTSPLGAGKTILTLKYAAETNSNLFIVA
PLTVHETWKRECRKYGV DYVDIITYDKLRGRGRSREGTSCSGFLERKAIFSHSLDRDEYF
YYPTEELEKYIEFGTLFV FDECHKIKNVNSIQHRAACKIVEAARGSASRCIFLSGSIADK
KIFTLSICRYLFLTQETRLGNLNSGGLSDVYNLAIGVNKKLANKIAKSYHDPEDVLFELY
VKIIRPIFSFYCPMGNSELKDFKNGKYNIENENYDDAVDALRDAMKNHTEWRSRFRITK
SLVLLEKIKLHKIYKLAGTLNADSNKVCIFLWYNDHVGD MIDFFDGKYTLAVLCGATK
SSDRQNAIDHFNQENNKCRV IISTTQTGGTGVSLDDTSGNYPRTAYCTPSYFSSDLYQLS

GRICRANTKSVSTLRVVYGNRTDEQYLIKSLSDKGNIMLKFLGYGKNIVDIPGSFGSYNE
PKERENEYETKPKVELKVLSDSKVELEETLEENLEEVLSDESEVELDEPLDENLEEVL
SDESEVELDEPLEEKLPYEPEGKYERENKIDNFTLAAQGRNIAECEVSEDLLKLLG

>gene_1475|GeneMark.hmm|260_aa|-|2271|3053 >NVVL0100064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MDKINVCVLTLLKKESENVKRISIFSDIYNLILIPITNIVDSVSNVSDVESHLDTKRML
HALDMSKTIDPEAITIILKDOTSIFSSKKDHLVLEVIKTSLEVEDWDLVYLNRLWDRCDLYT
DDRHRVGNTFTIIRTRSPNGTQAIMFVIGRDRILGVEPLRDSTYFKLVNISIDTLLNI
SIENSSLFAYVIVPNLVEFDIGVSSTLSNLAKMSECRAPPDVSNKGLLPFTLFLGIVICT
FLLMWAYGKISKVSIKDSVV

>gene_1476|GeneMark.hmm|339_aa|+|3075|4094 >NVVL0100064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MESKFIPLVLAMIMVFATIIVIVLAVSQKGRQLKLGENCSTRYPCSRGLTCQSNKCKSNSG
EFCNTLTDCTSDNLSCNNKCTNVGGSIGNICTELLPCNPELICEKGICKSKLNGSCDNN
SECIYFICVEGTCREDIKVTCDLLDIMTYGCIKLLLFSENKIKRINDNLGISMDITSSV
EISRFFMYNGLLHSLGVDGKLYALSVPYIEHNYWEWEEQLWCVNEIDHVSRTLDEHNIWIQ
RKVYVHISGTRGYLYEGNSLISTHSLNVNVIRNYGITTLEYVEINKKTMVVMYATPSGVILN
NVSARIGFDSKIVHSGGELIKVIFDRMVKVSIEYTTY

>gene_1477|GeneMark.hmm|260_aa|+|4106|4888 >NVVL0100064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MSEFNEKSYKGSIALSLLKVKKTQIQMLIDRKIVDISLLPTHILDETYGIGDFLEEFQGG
GGFRENISNTYKLNLDNLLIYSNTSKSKTTGNSTIKLIIDRVPEITDGSRNHLIVIS
ELKLSPOAKGIIKNIQYQMKMEHFIYSELETNPSSHFLTPKHEILTDSEVIELYSDHRIQ
ISNIPRIVKDDMMCRYIGACIGKTLKITYDNSFYDSYLKEYIEYRAVSSVNIDDGEITT
DYQEKFEDEFSISEYYDEEF

>gene_1478|GeneMark.hmm|249_aa|+|5162|5911 >NVVL0100064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MGESLESLICDNNIRQIKCNSKLLSLKANNINFLSPNESLEILDSCDNNIRSIEANK
NLRVLICRKSNLKIKLSNELIYLDCSYNIYTIHLGYNLQYIDCSNNYISCITLHGDIQ
YANCSKNPLTSVRFTGKSNILYNDYIECALKHKRTKTHSVTKIGKICNISDKPIEFTRVV
KAQITLYSMCYKVLGKSNKRAIELNHLNWARCFYCLVSYVVDLLGLNETQTYSRAICYLC
HNSMHNLM

>gene_1479|GeneMark.hmm|389_aa|+|5955|7124 >NVVL0100064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MDVKETSINKLEDLIYDVKYSGLFGQYIFDIKLLVLSLEKLNSMVGAKKIKESVVKQIKYI
LMTKIEGRANEFPLHTILYGPVGVGKTTFTGILSNIWKSIGLGKLYTQTPLDSDSPNLTY
MKNLIPKISGFIASSTSEVRTSVMKLGKESVHPLKLIYGLELDIIFAQIELEEYIIEIEEF
RKSQEQPKIVSRSDLVAEYTGQSGPKTRNVLQASDVLFIIDEAYSLYNGRGNDFGEEVLV
EINRFMSESKDKCILIFSGYRDKMEEGIFKAQPGLKRRFSWIFELDGYTGKELSEIFILQ
TKGKLWDLGEIDIVTFFVNNLKYFERYGGDTLRLVFQJIELLLSTDFGDFLTNSQIKNKF
IGKEIFSNAFKIYKENIGPVKSPNLNYYI

>gene_1480|GeneMark.hmm|269_aa|-|7108|7917 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MENSLEGLEKLRDGIIDNVNTNYIYSSPHTVPKIIHQWKTNDIPNVWKSRESWIKYHK
KYVVVLWTDENMRKLLDYYPWFIEYDKFPYNIQRADAIRPFILHRYGGLYSDDLKPT
KSFPELLKHKSSVILLSDNGRYTNMIMASNIGNPFWINVFDAMKSPNIPWYCGTRHFYIQ
ATTGPILIDKVARNFKGGKNIIDFPSKFVQPCSICESKPKTSKKAYVIMLEGSSWHYLDS
KVITFLSCKYKSLLFIFVSIILIFIYNN

>gene_1481|GeneMark.hmm|62_aa|+|7986|8174 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MNFYFYVDGFVTVNVNMSELILLSLLDDDEFNDPTALASALRIIRGKINVFLPLIFDYH
EW

>gene_1482|GeneMark.hmm|57_aa|-|8586|8759 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MVHIVIISLIILLVLINISAGAVAFIMRRDLIDCETNESPYCLKYICPNGKEATRDT

>gene_1483|GeneMark.hmm|469_aa|-|8760|10169 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MIKDMYILLTDNDMKVSEKINKGGVSSSKYLYVSIASPSGSGISNIDILYSYGSNN
RIEAKFSKPDPSRLISIEASNLDDKLLIITYSSKQLGNVLSNTEYIGITNLQKYIYKF
VGCYALTLALYLLMSHNDNDIGNPFTYLNTTTPMEMSIDNIVNNMNYNNYTKVISP
MKTGSIGKRLLQSKVFYDTWGEFLPNGKVLNDEALHSSIIIGMSKYMDDKMDKLLSLLN
DTEIQMFRHKEEISDISIKSMDNITNQQNKTIDLQNFILSNFNDLVAKATDEISNGIID
KNKCTSGKEMISIHKSMMISEIDSKVSTMMDAFDDQKNQSTEEILELKEKSIETISLYES
NHTSKQKDAFETLRKGIVKELDKHRDDGVLFDLSLGMKLTSTRYETLTKNIDLVEVESTK
IESLVSDLMGDMETLVENVIGIKIQKENIEFNNAITFRINNAIKKISDLS

>gene_1484|GeneMark.hmm|143_aa|-|10192|10623 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MDTHTKLVVDVHVYKLRGGNQEKTYDNLREWIDDKDNVYIGRQGRVNILDKNKTSKVFYGYG
RAIFANPNSGNPKLGEYRKHIENLIEEGTITIADIINLDGKNLGCWCVKGRKKGKDDPE
RCHGNILMDILNDYRKMYPKYSN

>gene_1485|GeneMark.hmm|269_aa|+|10753|11562 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MNKINKKRFSPEIEHKNFDVFDVYKGNDRVVEVDVEELEEIIKSLRKVAKVKTSELKGD
DRKNLDKIISVSVLYDTSYKILYGIAMKHWSDLKIISPGTVGSYFAGCIRTSSSSDMQ
GCEVICAGSMRPNESDEWKQCDKAVIWGKYHKGKYSFNVLQNNSDMSHSILHINCTNYN
TCPKFSPEDIDTLKISGVETITLRGYKNNGRDHLDLIGKEISVDDLVTNENKESSTLT
FIVIGFLIFAFCLWQSKYFGLDIQKYLQG

>gene_1486|GeneMark.hmm|189_aa|+|11735|12304 >NVVL01000064.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MCAYVIDSSISLDELQFLKSNACVYGLMNVIMKKGNETNSTLILLSKDYRIIKSIKNL
KLYGIDTFVPMKRKNCNLSKLRVTIPRNVSPGVCRKHITHLLMIMKSYNLVTDDVEIII
PLVSRMKSIIHTGVCHIYLNSEKTQNTYIIKNLLDYSYWPMTKEYIRCFHVTPTGGVWVND

SKLTILRKR

>gene_1487|GeneMark.hmm|1091_aa|+|12642|15917 >NVVL01000064.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24651, whole genome shotgun sequence
MSATHDAGIYKRPNEIEHVLLRPDSYIGSVNSVNREGRIFSGGKVVVEKVISTPEGMVRLY
LELLTNASDNLYESMQKGVPTFIDIKVDKYSVTVTNDGLMPPIEYSDKYECYIPEMIFG
MLRTSSNYTDDNKRVAGRNGFGAKLCNIFSSSFLDLSNENGGKKTQQWENNMKTISEPN
IGLAKGKPSITISYTLDFKRFCDGYTKEDIALFASFAIDTAVTCKIPVKFNGKMFNFKK
TSTYLNMFVFGKCKMEGFVQGKSRVPDLEVYLMPTPYAGRIYSFVNGIPTKDDGVHVSSVL
NSIIRPIIRTINKNIKQSDIRSGVTMKNATSHISMYSYRCIKPEFTGQMKSCLNPKPR
ISVPVGMVDKVGKWTFFVTKLNNILKDKCQKELKTDGKKKKHISVDTVEDANFAGHRTKY
RFCKLYVVEGKSAMAYAIISSMEGRDFNGAFPMKGKPLNVMRHPNKVFENQEILNLK
KVLGLRENVYKLIKINFSKLRYSMVIAADSDVDGKHILGLIINLNFCKYRSLELGYVK
YMRTPIVRVSRGKITKKFYTMDQYKAWCLSTNPQKWKHDYKGLGTSTDAYIKDDTENQ
VIVIPFLDKDSEDNLELAFHPDKTMRKSWVTSDRMEIGSYEGKQNISEFINAEVYYSK
YNLTRSIPGEMDGLKISQRKILYGSMLIWKSNKNKVKVSELGSAVSSSMGYHHGVFSLGN
AIKSMASDYVGSNNLSYFSQEGQFGTRNMGGKDAADGRYSAVKPEWWWPYVYKEDDIPIL
SMVTDDGKVPVTLPIIPMSLVNGARGIATGYSTFIPCHSITDILSWYEKLTGSVLF
ELCPWYRNYTGKIQILITLDNKSHRMVTSGSFEMVRKANKDVTRVTELPGRWNHNSYGLWL
KSKLEKKEITDFDNHSTHLVPSFDIKGFTNPTIANLKLYKTYTMDNMVLLSEGGMPRKYE
NVTEILEGFYVKRLGYVVKRKEYKLESLNIEINDLTSLSKFIMAVVNEEIIIVFKQKIDDI
YKKMDTMGFNRDFLKRVP LHKCTKDYISELERKISTMKEYSNELTNTKESDMWLKDLLDF
RKKYLSVYGLD

>gene_1488|GeneMark.hmm|103_aa|-|34|345 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MKDCETQTIPIQLHPTPPPLTTNQTQQTSPPSLPTPPQTDESIINYESDHNPPLNPIPE
VIRAGQRSLSVSKYGISCSNVEKTSVHSYNSGKMVHKHNIDI

>gene_1489|GeneMark.hmm|78_aa|+|886|1122 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MSALTIRLPDEILDEVKRSKALHISRSEYIRLSIAKMNGICEDERRAKLMETSHRVRK
ESMRINSEFAKVEHDPEA

>gene_1490|GeneMark.hmm|119_aa|+|1106|1465 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MTRKLNLEIWLADLGSKLGTELGLRPVLIQNTLLDANHPSSLVIPLTTNLIDDAEP
LRIRINAQGKLD RSDLLIDQIRAI DNTLHIGALVLCNEDFMKKVYQAI AEVIGDKNS

>gene_1491|GeneMark.hmm|129_aa|+|1493|1882 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
LSNAILTLDLRIWLHLGCSEQERHQPCVSDISITFPKGLKGTSSDDINDSFCYGEAT
KLIKETISSKPYNLIEHVASDVHEVLLGSLREKGFPEASLLVKITKLSPPVLDIHGGVSF
TYAPAGGRA

>gene_1492|GeneMark.hmm|444_aa|+|1891|3225 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MIYISLGSNMGNRLSALRDAARLIKTNILTHSYESIETKALLKEGAPASWKNPYLNMV
IAGKSDLSVPKLEALKNIEEKIAGSRYKERWSPRVIDLDILIYNDQTIQAPGLNIPHA
LLNRDFLLHLLALMPEEYMP LIQTNSSTAPSDGAMVRADEYAHGALEYAGLFDKSFSLAV
PIAGILNVTPDSFSDGGKNSSPEMAIENAKQMVLDGAEIIDIGAQSTRPGGIEIIGAEKE
YERLAPVLDGLKDLDAKISIDTYHPALIRRLKEYKIDWINDVTGNLEDDILQEISAAGC
KILTMHSLVPPSPANILPHAQEGGAILLKEWGRGAFERMQR LGFSAEDIILDPGIGFG
KSIYQNLALIRQMQLQELQELGVSILVGHRSKSFIFGLSTAPAKERDIETMVMMSGNLAS
KVDFIRVHNVDHHRALIANQLSL

>gene_1493|GeneMark.hmm|179_aa|+|3203|3742 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
LLINCHYNYGIVVMSRKIIGIMACTNKGVI LNGAIPWRYPEEFLHFKNTTDGQIVVMGR
RTFDELANL DLLSSRDNI VFTQNK SLLKSKMAENIRFISSLEEFKLTLPDKKIYMIGG
AKIVELFLKNDMIDEFLTKIHKEYDGD TYFPLDLMKNWDSECVDTREGYSIYSYKHKN

>gene_1494|GeneMark.hmm|223_aa|+|3752|4423 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MNFLDRLHKELDQYHLLKHPFYQAWNEGELSVDTLKIYKEYYGHVAAFPRYISAIHSRC
ENIKDRQV LLENLIDEEQGEENHPELWLKFAEGLGCKREDCKTQELDSTHKLVD EYFDIT
RSSYASGLGALYAYERQTPAVAKSKIDGLKFKFYAINDEDTLKF FTVHMVADEWHTTECAQ
LLEKMDAENQELAMNGAVNGAKLLWNFLDEM QEVHLGNRALAS

>gene_1495|GeneMark.hmm|302_aa|+|4676|5584 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MAKKRQVHSDDIIDAAQTGKNNRLLSAFVFKRFQIDYDS DAPEDEDERYDSL MCDALFYA
ARNEQDEAIKILLNAGYTDISGLEHYSYK KIRQLKDEMPLPLQSVDSRDVIYAAQDGGN
NELLLAFVSSTELQIEYDS DAPEDEDERYDSL MCEALWHA AFNEQDEAIKILLNGGYTDI
SGLEHYSYK KIRAGLLEELSIKLF TAARSGRNLELLSELVQSELGFSESELRKVIEDMI
EIAAFNSQQGALTRLL EGSNIDVSSFGVLVENPAVGKTNPAVEKTLSTLGDASSDVDEDA
LG

>gene_1496|GeneMark.hmm|294_aa|+|5693|6577 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MKNYLNQIKLSILIGIMVFIGSFVFKANAQIVQASSVNEIKKYTSQSQYKGEDTLVLFDI
DYVLLTPRDAVLR YAGENN NYRSKHFKAILKDFQGKEIVL DKS RMPMAEYLISQVLSSK
VELVSQDMPSFVNRLNAQKTTVVGLTSNSSGKYGIVQNEAELHLSRLKSLGYNFKDNGNL
LKGDFPQYVSPVIFTNKTDKGM LLLGFLKQLSKSYKNIIFIDRLKNLISVQNALKDRQI
NYIGINYTELKNKNELLNQDIADKQFQLLSQEHIWLSDEETQARLNAKSNQEA K

>gene_1497|GeneMark.hmm|188_aa|-|6622|7188 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MQISVSGQQMSVGASLQEYVKERAVEVVS KYFENAPSARVSFSKQGRVFC DIMVNDGTG
RGMVIKSNSSGDEVYNSF DAAIIKIEKQLRKYKSKLKDHHKRMKVSQITPESVKYIIAPT
SVAEELVEDNPVIVAEKPISVLPLSVSDAVM KMDLEDLPALMFENAKTGKMN VVYR KDG
NISWVDSK

>gene_1498|GeneMark.hmm|450_aa|+|7399|8751 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MTSKTKKKKPAKSKDLKHVQDHYLDYPYPERNPEEEKTRLMKVYGDYLGGEINHWLFEGKE
DFKKGFRVLIAGGGTGDSTVYLAEQDKDADVVYLDVFSKNSMKIAQERAKNRGLTNIKW
VNDSILNLPGLGKFDYINCTGVLHHLLESPDAGLKCLTDSLTERGGMNIMVYAEYGRGTG
VYQIQNMMNLVNDGVKSRQDEVKNAWTMINSLPNTNWYSRGKDLLADHVKFGDIGMYDMF
LHKQDRAYTVPQLYEFVENAGLNFVEFNPSHRVMLKIETYVKDPEMLKKIKAMDKSKQH
AICELMCGSIIKHSFYVSKKKKPIAKFSNLDNTPYFYTVKNVPTQIADYIKENPQIVGGV
VNFSWTSDFLGKVTINIPASKYTEHLFRHMAGETKSFKEIFKAIEKDLGEKIDSSVLMTE
VNRILPMMGESGSLLRDKKVSIASSMISS

>gene_1499|GeneMark.hmm|591_aa|+|8771|10546 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
VSESTKNKSANGKYWSARSYDENFIQELSRFLGISDFLARLISVRVSSPADAQDFLEPKI
KSLLPDPFHRLDMEEAVTRTMLAINSGEKICIFADYDVDGATSSALLKNIFREMNVESI
YVPDRISEGYGPTIQGMEKIHASGAKLLITVDCGSVAFEPLHAACLGMDEVVIDHHISM
DELPKSVAVINPNRLDETSECKNLAAGVGSFLFAVALCSRLKESGYFKEKNIPPPNLMKQ
LIDVALGTVCVMLLSGLNRAFVTQGLKVARARKNIGYASLCDVAEISEALSCYHLGFIL
GPRINAGGRVKGASLGANLLSTGSKLEADKISAELDRYNEERKVIEMTMLEEASEMAKNQ
EDSPMLFITGQGWHPGVIGIVAGRLKEKYTKPVAVIALNDGIGKASCRSIKGVDFGCTVI
EAKQKELIAGGGHSMAGFTVNEEKLNLDLQEFFNKEFAKLAGSDAHLREHYDADLTSS
AATLELLEEISKLEPFGNGNPSVFRFSNLYVLKADIVGTHLRIMFSPSRDAYGSKPLT
AIAFNAAGTELAECILSRKPHTLSVFGTLKVNKWQDRETVQLQLRDVLIIE

>gene_1500|GeneMark.hmm|34_aa|-|10577|10681 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MQIIYIDKEFIDFYKLSPOGENIPYFYKLRPQG

>gene_1501|GeneMark.hmm|226_aa|+|10965|11645 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MNTTDNTVDTTTEIETRPDGTREKRTVHLKNSGLSREEADSTMTKSGEPNQVASTLAGG
ARALGSIVEGITGAPDTVLSLAGKAMDLMSSGKKDDPELPPEPESPGVPDFDSARSSLY
GNPFDSDSPEIAPMPRAVVSRRGSMFDIPDEVQVQAAQIRWQQAQHSRQSQHVRPPAT
PSDRRGSIVEDAIFEIRDSLIGNIVGQMGGDLLGGSSDYAEPPEVT

>gene_1502|GeneMark.hmm|185_aa|+|11811|12368 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MEPVSTITLILVAGAVISGCGWHHHHSRNQETHHETTTEKTTITTPGGTVTEKTAVTI
EIDTDITSEESSGEGAEGDPEVAKGLVNIAGNLLAGGGVFDVAVAGVGELFGSGDDDDSDSD
AEAPMLDAPFRSDSGEPGEPNAARARLTGIFQLVIDNPGVLDANGDSEGVMGDSTAALP
SDAIV

>gene_1503|GeneMark.hmm|530_aa|+|12573|14165 >NVVL01000065.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MKIMKPFIALSCSLLLTLAWGSANAKDDVSTKSHASTSAKASIKDATNINPGAITRAKP
KNIKXSEDKLEIDDYIAMCKQDLQFVRSQMKKNSAAYANKIDKEFHRWFKEGNKNTLKI

SKIGDLDDCYAIKYYINGFHNSHISIRGYIALPSEEYPGLLSAKKGGKGHYIYKHPALK
YLKNVNI GDELTHINGIKIDRYYKDFLLPFYANDKSELTELESASIYALIVDGNRFKPSPR
RITLKQKQNKDINIDLKYTELKGAAVEAAKKIKQPDRSAPFKVELVSNGVWIRIPSFPPA
RNEAIYYTGMLSMKNDLAKEDYILFDMRGNRGGASKWSRPIIRNLWGDAFIKSLGKKHD
YNKKWQKNLRVSAENFSPFKKIYSPAASKSYASLIKRRKKDFLKKWSIYNDKENLYTNLD
SKPFNAKIYVLTDFCRSTCWKFVNELKQIPGVTHIGEETTIQSIYSYAKRERASSEHFD
FFYPTQIRVKPSYKLGALVPSEIYKGDFRDEASVIDWALSITEKEDEDF

>gene_1504|GeneMark.hmm|154_aa|-|14162|14626 >NVVL01000065.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
MIISSIQEFYEFFQNGMPILSIDYGGKLGVAISTPDHSFIMALQMISTESEKEKFRQVL
NIAEEKNICAIVIGWPVNMDGSKSDQTLIVERFAARLEGRTKLPIFLQDERLTSKAADNL
LKKFGVKRDRNSRDDMTAASMIETTLESIKRL

>gene_1505|GeneMark.hmm|431_aa|+|14642|15934 >NVVL01000065.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24665, whole genome shotgun sequence
LVYKKVSVFKFTKIQLDVKLIKASLVFALLYCILFNSAVFVYKFEFYQANLFTASLELTK
DFIYLTVTLMFFFGLSTHRILFIVGSILLFVTGAIASYYLFFFSISPTPSMMPAVFCNP
AADASELISTSLIVWISFCLAICLYGIYFKIQTSKSFITRFLSFLCILFVVSNILLPKF
SFLKTYFPVQYLHNSYIFLQGGQNEPLREDINTKFSFVDKSDDDVTGVLVIGETARYDKF
GINGYGRDTPNLSELDLVSLKARACATSTYYSVPCMLSRYTEKDIDLVETESSFLSVLT
RLGINTTWLGTQTCTKYKNTQNYSFYDEVNLRVIPGGSLIFKANCHEDGKMLPYIKKNIE
SHNKNFLVLHTTGSHWNYARRYSEEFKFTPSISKTKDPFSCDLEKLNKSYDNSMLYTD
FFLSRVIEMLK

>gene_1506|GeneMark.hmm|954_aa|-|1|2862 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MQNKPCNPHAIGVLLVFGILLTGKCRYMLFGVEIGLDMGIVIGFLVLTLLVGMGHGKSVK
TIKDIALGGRNFSTAALTATIVATWASGSGFFITMSKTYSDGLIYMFSRFGIGLSFLILA
FVLVPRMGEFLGKTSIAEAMGDLYGRHVRIITAIAGTLGALGSIQVQFKVFGSMFSYFLH
VPDYIATIAAGMIVTVYSAFGGIRAVTFTDVLQFGAFGMIPIIGFIVWNDFYSGFTIV
QTASDSSFNLVEIFSINNASLLEMGMVFFYFSIPTISAPAFQRIAIGNSISQVKAFLIG
GVILILIQVMTAWIPFLHTLDPSEAKHILGHIITTYSPGLKGLMIVAVLALAMSTAD
SRINASSVLFTNDICKLLIPNLKKEMFVSRFSFALGIGGIALSLES DLLAIMLLASSF
YYPIITPPFLSVFGFRSSAKAVLIGIAAGFATTVIWKILPISFVSQSVMVGIFFAMLM
NTAFLFASHYLLKQGGWVGKIDSSYIDKQKIIRREKWAAFVSKAQNFNLINYIKTRPVV
EDSAYVTLGAYFLIFTFTSIYSTHAEMLKANGDIIGVIYQIMIVSSTMMGMYPWPLSIK
TQIKQMVMRVWYPLSIFYMLIVFSTFFVLLNEVNNMHYIMFAVNMIVSVVLLGWRMALGM
IVGVYMGVQFYKYYAGVEYLDISIGSPQFILIYSSMFVVVILLIFLKPQEHQKQTEYK
VGELSDEVGTLVAVVSSRDGQISTLDTKVSGLERVDHYTERATDHAKEVERLGATAQKI
LNNVNHELRLPVGVMNFAEILHDGLGKFSDEQLKMLSKEVYKNSNRLSTMILNMLDLAT
LQAKKIELQIKLANFSELVEERLTVCRKIYVEEKPLKFITKIEKNVMVPMDANYIRQITD
NLMINAINFSEKGNISISVVEQTNFVFTTIQDQIGIPLSELYDVFTPFKMGSN

>gene_1507|GeneMark.hmm|76_aa|+|2857|3087 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence

LHKYEDASTNSDPGYSRESGLDGGFSLPETLDYSNSKNPFSGRALRELLQLFAARHGMRQ
GAYHRFQGGKLSAEVSP

>gene_1508|GeneMark.hmm|203_aa|-|3320|3931 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MIDIELLIDGHKRFRKKHFDKDKKLYQELATEGQTPKTLIIACSDSRVDPAIIFDADPGD
LFVIRNVANLVPPYQPMNESYHGTSAALEFGVNNLKEHIIVLGHSGCAGIKSLCDHDDE
GSKKFSFISSWVNIAKEAKEMAQKGGKSSVEEMYSLCEKESILTSIENLLTFPWIKEKVK
NNTLALHGWYFSLNNGKLLRVKY

>gene_1509|GeneMark.hmm|459_aa|-|3928|5307 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MNELSCFKAYDIRGKVP SQINENLAYKIGVALHTMLAPKTVIVGYDIRLESPKLAESLIQ
GLTDSGVGVINIGLCGTEEVYFHTFHKEQDVCAGVMITASHNPKGHNGMKIVGKGSRPL
STEDLKKLQEHVRALGPDALPYSEKGLKGTETIDEDKSSYITHLLEYVDISKLPLKIVV
NAGNSAAGVVIRLLEKHLPPFEFIYMNDTPDGNFPNGVPMNPMIVENRTATSEAVIAHKADF
GVAWDGDFDRCLFDEQKGFIEGYIVGLLAEIFLQKSSPEKIVHDPRLVWNSIDIVQAA
GGVPVMSKSGHSFIKEKMRQENAIYGGEMSAHHYFRDFAYCDSGMIPWLMVAELISSARE
NLSALVDERVAAYPCSGEINYRLDDIQAVIGKIEQYFLPKCKFVDYTDGLTIEFDDWRFN
IRSSNTEPLMRLNLESRGDVDIIKKRVEEIESLFGGEEK

>gene_1510|GeneMark.hmm|208_aa|-|5433|6059 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MLLELKKRYAEKKAKKLALGGLLEFTEERLSNELKILQVHGASPEKIQLFQEWMIIEVYKVK
ATEAAGNKSYWFNKNITDEVLSMVSILLPLELEAAFTANLDIELASMEEQILKFFKEC
QEDLGLNNDYSKIFQKELHDILGVDRKLILESFREGLDLSLHKASPLPTPDWQSYLDAEF
GRLCESASLYLYKPHAPEVEIGGMDIDS

>gene_1511|GeneMark.hmm|89_aa|+|6357|6626 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MIRKEPVMALRRNLGQVLNEVEYKHDTIIITRDGHASAAIINMNLFEKIRQMKNRFSQLT
RELQSAFSDLVEQEKDDLIDEALLEARIK

>gene_1512|GeneMark.hmm|831_aa|-|6676|9171 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MKLVIVESPAKAKTINKYLGTDKVIASFGHIRDVPSKKGSVLPEEDFSIKYEISERSER
YVDEIVKYAKQSDEIYLATDPDREGEAISWHITEVLKEKKIITDDSKFKRIAFNEITKKA
VLAASPRKIDLDLVNAQQARRSLDYLVGFTLSPILWRKLPGCKSAGRVQSVALRLICE
REDEIERFISQYWDITLDMLS DAGKPFSAKLSHVDGKKLEKFSITNQEGADDIAARLKT
QEFSIASITKKQKRNPAAPFITSSLQEQASRKLGF GAKKTMQIAQKLYEGIDIGGETTG
LITYMRTDGVTLAADAVTSIRELIEQKYGD KYLP AKARIYKSKSKNAQEAHEAIRPTDII
RTPEELKGRLDNDQLRLYDLVWKRTIACQ MENVIIDMVGADLITADKSFTARATGSTIAF
DGFYK VYQEGLDSDKDEKSKMLPPLAEGEDLSTKKINPEQHFTEPAPRYSEASLVKSLEE
LGIGRPSTYASISVLQERNYVTVEKKRFFPNDLGR LVTAFLVGVFFEKYVQYDFTADLET
DLDKVAEGTIPWKNLMSNFWDFNKNVEK VSEQKIGDVIAYVEKSLDFHFLFGKEGTEEYK
KNKKCGTCDPGDLSLKLKGYGAFLACSNYPDCTFKKQVSKGDSNEEAQTIIDNTKDLGQD
KDGKTVYLKKGYPYGWYVQAGEAESKDKPKRSPLPATV KPDDLPLMAIKLLSLPLHVGN

HTETGEEIVMGIGKFGPYLKYQNKFTSIPRAIDHFAVTLEQAVELIAEKAKKDAAKKGAP
KVVVAKKAVAKKVAPKKATPKKAGVKKVGAQVAKKAAPKKVAPKKAVAKKS

>gene_1513|GeneMark.hmm|379_aa|-|9177|10316 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MLDNLFVRNKASTYSDETIDILRLIRSENVGSRITYLLIKKFGSARNALENIGDFSLRGG
RSKPIKIFPKSSAEQELEKLRKNGAHLITHKDYNYSQLLAHIPDFPPVISYKGNISLLNS
QKIIAVVGARNSSLNSRSFAYKLSKDLVDAGYVTASGLARGIDTEVHKASGAKTIAVIAG
GIDHTYPPENKKLQEYIEKEGLLAEIAGSKPLSQHFQNRNRIISGLALATIVIEASLK
SGSLITARFALEQGREVFVPGFPLDPRCMGSNKLIKDGAQLLESSEDVIANVPLYKKS
EESKTYSNLKPAPDAANIASSDRENVRTLSSMPVYEMIADETCLSLPIYTICL
LELAGKIVRYPDNKIALLY

>gene_1514|GeneMark.hmm|200_aa|-|10334|10936 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MNPFIGKKAPDFTAKAVMHNDIIEHDFNLKSHLKGQKGVLFYPLDFTFVCPSEIIAFNN
RVAEFTERNTKIVAVSVDSHFSSHAWRSIPANKGGIGNVQFPLVADLNKEISTAYDVLNE
DSVSYRATFLIDEHFNIRHFLINDLPLGRNVDETLRMIDALDHHNQHGVEVCPAGWQKGDQ
GMNPTHQGVADYLAVNAEKL

>gene_1515|GeneMark.hmm|335_aa|+|11197|12204 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MQFIDESKIYIKAGNGGGHGAVSFRREKYIDRGGPDGGDGGRGGSIIFRSNSHLNTLLKFR
YQRHFKADNGEYKGRNKTGKSRDPVILEVPLGTQIFSEDGLLIHDFVEDQEDFEILEG
GKGGLGNSHFKSSTNQAPRKRIDGETGAEMDVCLKLLSDAGLIGLPSAGKSTFLSTTT
SAKPKIAEYHFTTLKPLGVVYVSEEEFVLADLPGLIKGAHLGSGLGDRFLKHIERCGVL
IHVIDGLRDDIAEDYKTIREELESYPLLKDKYEIICLNKIDAMGEEEEILEKMQILEELT
GKKINPISGYTKNGLDIVLKQALRLIKEDDIEDII

>gene_1516|GeneMark.hmm|387_aa|-|12586|13749 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MSRSSNENITISTVSVAYMVAQIRAKQLASKASQDELLRHIVEYLESEAAAIEITGASFA
TIMAELVETELKHSYFEDLELVGYPIKYNKTKLILEMVQSWVSTSDDSLMDITNNTLH
NGQGNTVLSELPRQLAPSQVSSWGNENPVVNTALLIGASHFTQDDLFTGAATFFPFFD
PTHVVDGYSNIFGASNGMILVGDYQYGGHRYFSNPAHGLKQQLFGAEDCSSAVAKATGLG
KYVVEVTTTSLREAYTSPKWGGHYTAITSTYQEEIDWAKVQPGDIYIRGGHTAIIASAPD
QHGFETLEFNDRDIESNTKHKLLGGGMYHRTTDPQKDIYFLCQPAKDFKESCSATDLLQL
IDQRYEEMYGDNPVVDVAGDCGIFLQL

>gene_1517|GeneMark.hmm|636_aa|-|13888|15798 >NVVL01000066.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24681, whole genome shotgun sequence
MDVTVAAYYIKEEKISYSEYIDNMNIINKAVTEMQKNLMQDYGVYKTRFGILVSSIQKI
IAIDQEFKDLLFFMGLINYKNISRDLINFKNEKIVNNFIAYLKEFSIITEERKNKNKNI
DNFTILKSSNIIRHYLQQLFLGECRVAARGAKILQYLFNEKKLSSIDRDNYEHI
EAFLQNKDLLNDILAYYSKILGIYYVGNENYDKAKKLENALEYNLNKKMYGKEIANI
SVNSGELYLFSGGYEKAKKSLEIARQFYSQNIIEYECVLSWTYGLMGYTCRALEQYEQAR
IYLDKSLAIHSGCSNFDKTRLLTYLGSVHRNLGNYDLAITLLTSANLIIDFYGKNHFK

KYWIDNYLGQTYLCKGEYLKAKELLEVAVIKYQNLYGKKDKRTAEISIWLGTLKSYIGEY
AESQAILSFAHKRFVKIYPENHLKIAWCATSLGEVYRQLKEYDLSQRYLEQAQAIIFSLKL
AKNNIKIAWNTLNLGLLYRDQNKLVKAEQYFQKSFDIYMKNNGLQHKRTATVLAELGYIK
FLKGDAAAGSGMIKKALRIMVTKNYTRRYIALIQLAEINFSKLNLSDEEKRNITNQTL
LYMNQALEIVTNNFPSSTCSEEIYKMKQYQNRLP

>gene_1518|GeneMark.hmm|262_aa|+|45|833 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MKKILLTTAAAVLATSSAYASEADTFVGVHAGMIKPTDEKFGGMKYKSSAAGFAELSV
NYAIMDNVRVGAASFHFNPKYKASWEVKHADIDGGTFKHILSKTKAAAASVKAADLAE
PDAKFKTVLKAKFSTFLVNGFVDVADLGAAKIFVGAGVGLSRTSAKFKKTSTTVATKAIP
ANTATNQKEVKVDVLTGPTKSGKIKSKTNFAYALYGASTEVPGINAELAYSFRGFGK
LKDVKKASLKGHNVSQVGRFDI

>gene_1519|GeneMark.hmm|96_aa|+|1954|2244 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MNKFIKSLVNKEQDSFLTQILDILSPMYNLSTETSESGVVSIFKGGAKFAIIEGETMKLA
DKNGSFTEIDAPIKSADALLQVATQAYWIAIKNIAS

>gene_1520|GeneMark.hmm|168_aa|-|2502|3008 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MSESPNFAIGDKVVYPSHGVGQIIEIESQDIAGMQIEVYVISFPQDKMTRLRVPVSRGAAS
GLRTLVTKKDISEVYNILNSKPKRGNKMWRRRAQEYETKINSGEIDAVAEEVVRDLYKNVD
NDRYSERTIYESALGRLAAEIAVLEDISSQESTEKLVELLKEKLVAA

>gene_1521|GeneMark.hmm|644_aa|-|3095|5029 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MLISSLFASAALNSIDFGSLPAKSGGIVGVNVEQFTLSFSQILPYKQFINPGYITLAVIF
FILALGVRLRVYKRIVFGFLGFLRLISATGILQKLSIDNGKAYYASDEFYSYAGGDEEE
ASPFATRRSAKPQRRARQKSRGDSNDMYELPSVDLLDDEKHQGAKPQTQAMLNENAEQLL
AVLKDFGVKGQIIDVRQGPVVTMYEFEPSAGTKSSRVIGLADDIARSLSAIATRIAVIPG
RNALGIELPNKNRMFFRLKDLVKSDEFQTSDISPLILGKDLAGVPLVADLAKMPHLLVA
GTTGSGKSVAINAMILSLLYKYPDECKMIMIDPKMLELSAYDNIPHLMTPVVTEPGKAV
VALKWAVKEMENRYRLMSHLGVRGITNYNIRVQEAANKGEVLERRIQTGFDPETGKPTH
TVPIDMNKMPFIVVIVDEMADLMIVAGKDIESSIQLAQMARAAGIHIIMATQRPSVDVI
TGVIKANFPSRISFKVTSKIDSRITLGEQGSEKLLGMGMMLYMGNSSKILRVHGPVDDK
EVERVTNYLRSTGTPEYISAVTEADEECGDDSGENFSSDDGENDIYTQAVNIVRLERKAS
ISYIQRSLRIGYNRAANLIDEMEKNIVSSPNHSGKREILLPED

>gene_1522|GeneMark.hmm|97_aa|+|5028|5321 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MAIVLNVAQSSFLRNKIHAQEMQHMDIINADQPQNWKSISARYDPKYNRRLLGSLSVNK
LNDGSCGLYEARETTLASASTNNIVDLDLLCAKNFFI

>gene_1523|GeneMark.hmm|119_aa|-|5432|5791 >NVVL01000067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence

MSLFEFIVVLIVALLVVKPEDLPKIVKFKQMQSFITNTKKEIISQISIDDELEEIMQDS
SSPNLNKEMEQVNYYLEKISNIGPEYEGEYSLAAIKKHLYLKVKEKMADSNSAKQDSNS

>gene_1524|GeneMark.hmm|555_aa|-|5837|7504 >NVVL0100067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MSYQYVYVMKGLSKSINGKEILKETWLSFLPGAIGIIGHNGAGKSTLLKIMAGVDKEYD
GEAFIADGVKVGYLEQEPQLDPTKNVFNIMEGLAEKKALIDEFNEVSAKFAEEMTDDDEM
NDLLARQGDLQEKIDACDAWSMEREIEIAMDALCKPAKDADVTKISGGKRRVALCKLLL
EKPGMILLDEPTNHLDAESVSWLENYLKEYKGAVVAITHDRYFLDNVAEWILEVDRGKCV
PWHSNYSAWLQEKQAKLASEEKEEGDHSKLLKRELEWIQQSAKGRHTKSKARINAYQELL
NKKRDVGNNGSGQIIVPNGPRLGELVIEVKNISKKFGDKNLLTDFSRVPRGAIVGIVGPN
GAGKSTLFNMITGKVKPDSGIINIGDTVKLG YVDQSRDHLDDSKNVWEEISEGLEVLDLG
GMSMKSRAYCSAFNFKGAQQQKQVQQLSGGERNRVHLAKLLKEGANVILLDEPSNDLDVD
TLRALEDAILDFAGCVFVISHDRWFLDRIATHIIAYDQDSNATWFEGNYDDYHNYMTNIV
GQNTKNPKYKHKRLA

>gene_1525|GeneMark.hmm|216_aa|-|7530|8180 >NVVL0100067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MKLFLDSVDSAEIKKYSALGIIDGLTTNPSLMVKSIGFYETVSELTSLVKEDVSIEVIA
KDFDDMVKEGERILDVAKNIVVKLPITWDGIRACKYFADKGRKVNMTLCFSANQALLAAK
VGATYVSPFIGRLEDAGEDGLGLIAEIREIYDNAKFETKILAASIRTVAHVTDAAALCGAD
YATLPANIMDELVKHPLTDKGLAKFDEDWAKSGMRI

>gene_1526|GeneMark.hmm|282_aa|-|8185|9033 >NVVL0100067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MRNKALGRGLSLLKEEIVPIIVSQSENSLSDLEASDNQPRKYFDEGKIKELADSILS
HGLVQPIVVNRVTSGKYIIAGERRFRACKIAGLENPVVIKDLNNDILEVALIENIQR
QDLTAIEEAFAFQKLMDEYGYTQSELGVAVGKSRSHVANLLRLNHLPSIKLMVNHGQLS
MGHARCLIGLENAEELAKKIVANDLNVRQTEELVSSKRKNDRAPKMQGKESAPVDEDLVL
LGQSLSEKFGVKVVVENSWNNGGKISFHYGNLEELDSILTGFN

>gene_1527|GeneMark.hmm|255_aa|-|9042|9809 >NVVL0100067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MSAKIVSVVNQKGGVGGKTTTAVNLATIFAIMDKKTLIDIDSQGNSSSGLGIEQSQRKVT
SYHIFCSLDSVKNVAVIQTEVPNLSVIASNTNLAGVELELFGQEGHEFILKNALESIKDDY
DYIIIDCPPSLNLLTLNALVATNEIIPMLCDFYSLEGLSHLLKTVEIVEKLNPNQIKIG
GILFTMYDKRHKLTEQVERDVRSLGAMVYNTTIPRNVRVSEAPSHGKAAVIYDHHCSGA
RAYISLAKEIMSKET

>gene_1528|GeneMark.hmm|194_aa|-|9806|10390 >NVVL0100067.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MIDVREYVSRGDVGAFVELLLKWNNTINLISSKTTANVMDRHVLDSLQILEFIGDKDVSI
IDFGSGGGFPGILLSIAGVRKVTLIESDARKAAFLRQASKISRHEVEVINDRIENVENLE
CDIITSRAFADLDSVFGYSRNIQVRDKYLLHKGESYSDEMLKAKKHWFNTIVHDSITSN
RGKILEIRDVEYIS

>gene_1529|GeneMark.hmm|614_aa|-|10387|12231 >NVVL01000067.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
VKKRYSVVVIGGGHAGCEAAAAAARVGADTLITLKPENLGEMSCNPAIGGVAKGVLVKE
VDALDGLMGRVTDKAGIHYKMLNESKGPVWGPRAQADRELYRAAMFDELTYKNLTILY
DSVEDITNSVVTKNNGEIECKIILTGTFLSGMIHIGQKQIPAGRDGEQASYGLSATL
KRDFDKLGRKLTGTPPRIDGSTIDYSKTERQPGDKVPRPFSEMTDNVEIPQIDCYITRTT
LKTHEIIKANLDKSAMYSGNIEGVGPRYCPSIEDKIVRFSDKESHQIFLEPEGLNISTVY
PNGISTSFPEDIQREWIKTIPGLENAKIIKPGYAIEYDYIDPRELKPTLESKKVSGLYFA
GQINGTTGYEEAAQGVISGINAALSALGKSDFILTRADAYIGVMIDDLISFGTTEPYRM
FTSRSEYRLSLRADNADLRLTPKGI EAGVSSKRQTLFENKLN TIESTKLLLSCNLTTT
KLAKLGIAIAQDGTKKSAYQLLGLPNFGLTKTEIFPEIASLNPSALNYLKIESQYSSYL
KROSLDIKMFQEEESY TIPDDVNYS DIQSISTEIKEKLSYHRPTTIGAARRISGVTPTAL
TAIIYLKTKYLKK

>gene_1530|GeneMark.hmm|140_aa|-|12243|12665 >NVVL01000067.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MTIEYTF SIIKPDATERNL TGKINSYLETAGLKVAAQKMTILTKEQAE EEFYGEHKARPF
GGLVKYMTSAPVILQILKGENAIAKNREIMGATNPEDAAPGTIRKDFAKDIEANSIHGSD
SADSAKREMEFFFSKDEIVA

>gene_1531|GeneMark.hmm|458_aa|-|12739|14115 >NVVL01000067.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MKLSL FNSL TRKREVFTPINPDLIGMYVCGPTVYDHPHIGNARSVVVYDVL YRVLTHL YS
KEKVRYVRNLTDIDDKIIARAIEENTSIDELTKRTTEYFHKDMNYLGCLEPNFEPKATEH
IAEMVDIINKLLSSQIAYQANNHVYFDVSKAKNYTKLSGRSFEDMLEGVRVENSTDKKHP
NDFVLWKP AHQNDD EAKFQSPFGEGRPGWHIECSAMSHRYLGETFDIHGGGADLIFPHH
TNEIAQSCSAFPGSEFAKTWVHNGFLT VNHEKMSKSLGNFITVDDLIQKGV RGEIIRLFL
LSNHYRKPLDYNDKAISDAKMLDYWYRAIEDINPPLVQTPPSVFIETLLDDINTNNAIK
IINDFAKQAH AATNEDQKLEAVGNLLASARFLALLNTSPAKWFKCEKNEERINILIAKRA
QAKQLKDWALADSMRAELLSIGVVVEDKPDGSSSWRKV

>gene_1532|GeneMark.hmm|279_aa|+|14186|15022 >NVVL01000067.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24823, whole genome shotgun sequence
MDEFLNKQETE QINKKATI QMVTFGMITILVIVTLVSCIRIYSNKKEQVLNEMRMESLL
KTVITDQLNYSLYSVDIIGDHIKSEPRNLIHHTL KSHFASRDFNV LFGWRKYSWMDEN
FLEIVTSTQGVVSNPRYASFVKD IVENTKTIKGGENKIVFYTSHNSLKGNSLKIIDNIF
NAKGKYVGS AVLSYDIKTMIRSLDRRKRNSATNFVLLDKNMEVVAQSQPIIENIIDNKGE
FSNYLKFS LKM HGRDKDLEYLDMFNGLNYFVSKLDEL PF

>gene_1533|GeneMark.hmm|584_aa|-|198|1952 >NVVL01000068.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MFVSQSVAM LAKLREFARELNAGYIESFAYEEQEKESVFANYIVSALCKYKELLPFLNSV
YRHLEDCLKTHAARYVKYCS DNNQSTVDVSKFESDVKKIVQLLEKPTKGTEKDKGK DAS
AQDLKLNLI RELTCTAVKNAQ L LFAEQTQNPEAKASLQAF AIAFSFEHLDADDQNSLFSK
LLLTKEIWCIDSPEEASKNGIKYNFYHNASALLKLGK KTSADETLMAVIKYLVCESQVLP
HLSDEQLISLYDRLKNHEWSSDES FLLLSELHKESRFRYSYNRLSDSGYDLLNRFQGYDA

MAHQIENLEFSIVETYLITRRVFFSKLLKLLIKHADNIRGFNLNKNEDLLSVLKKMDIWW
RDKPEKEKQNYLVMLSGFNKLLKDSGGVRVQKRYTTLDKFTVRALHERYKTLFANIGHLL
EHDELGMEFLNKIFLQKLTKEFYLPNLANSVKKLRQMDEYQKEVKAQLLELNLIDIFQSK
GVINEIHSNLSKVAMNSSIKLPSDYIGLLTQQIVAMCTPSQLEALYSPLATQDNLSNAQ
LYLKSEIKQEIHARGVSIKKMIYSIIRGKKKEYDHLKLNKERMLA

>gene_1534|GeneMark.hmm|103_aa|-|2125|2436 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MAYVVTDECVKCKYTDCVEVCPVDFCYEGDLMLVINPDECIDCGVCVPECPIGAIKEESP
DLIKWLEINKELSAKWKNITVQKDPLPADKYKDETNKFEKYM

>gene_1535|GeneMark.hmm|232_aa|-|2437|3135 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MIKLLTPNFFIKIEKVLLPILITICLPITIGIGLYYALLASPADYQQGEMVRVMYVHVPSA
WMSLGVYSFIAICFSALVWQTRMSYILAVAAPIGASFALITLVTGSIWGKPIWGTWWV
WDARLTSMLVFLLYISYIAITNSGSNILRAERPASVMAIIGFINVPIVKFSVDIWYSLH
QPASVLRIGGPSIHPSMMLPLMIMFAGFIMYFILMLIMRSRTLMNKIKNNGY

>gene_1536|GeneMark.hmm|243_aa|-|3135|3866 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MELEFIKNKVYYKIFDRTYTGSTGVYSKHKHKDAAKLAEIQQNIDNIKNKYDAQGMVLLK
QVHGTVNVLGSECSDYPEADGSVTCSEKGVALSIMTADCVPLFASADGAVIGAAHCGWR
SAKAGIVARIRENMEAQGGKDIKAIAPSIQQASYEVDTDYHQAFIKDDETLKALFIPST
NKGRYMFDLAGYVKRMLEQENIELKLHIDEDTYSMQEKYPSYRRSHHKGEQYSQSILSTI
MIK

>gene_1537|GeneMark.hmm|267_aa|+|3865|4668 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MTFSLDIYYDKLSDLGGEYNLLNHQLVQFKSKTKLIPCIGAEIEFYLDGQIDLKMLKTME
KATGYVLKKEKGNQYEIELPPSNDLASARQIVQVREGVIHAANKLGARADFSSKPYED
DYGNSMHIHLNFQRNEDSAENKGEDGNKDIEKYARILCHYLPETIEYLPKPEDYRRLDS
KFMAPTHISYGGNNRTLLIRIPDSKPKRLEHRLPAANANPAHVIYAMLQSIDRGLQHPGE
ISSLKKTFGNAFDPQYGLERIGARKLC

>gene_1538|GeneMark.hmm|346_aa|-|4697|5737 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MSDDRDQGDVIDAVDVIDTIEEQDASKAQGVRNVQGEQEYLSKPLVSFDYAIKYLKDK
GDYGVVEGFISTLLKTRGYKDVKIISLMESESNKENVKSKRSLADLVVQDEDNNKYIVEI
ERNVKDSFVHKSLFNTSRLIVDNLAQREDYTKILKVFHISLLYFPIGNNGSIYHGKTVTHE
IDTNEKLSVNIKNRDTQEVFDATDIMPEYFYISVPMFNDRLEDEMDDWLHVLYKDEVPPN
YHSPYMAQIADKLSILKMTKEEREKYSYYQKILHNRDELKAAEFRGESRGIDIGKAEGI
DIGKAEGIDAGKATLVKMMIAQGNVNNIAKMTGLSEAEIILKLDI

>gene_1539|GeneMark.hmm|962_aa|-|5831|8719 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MQEFIKVRGAKEHNLKNINVDIPRDKFVVITGLSGSGKSSLAFDTIYAEGQRRYVESLSS
YARQFLHLQNKPNVESISGLSPAIAIDQKTTSKNPRSTVGTITEIYDYLRLLYARVGPVY

SPATGLPIKSQSVSEMVDIVSALPDGTKIYLSPMIRGQKGEFRREFVSLRKHG YQRLFL
NGELCELDMPKIDKKKKHNEVIIDRLVISDSLGNRVAESLEASLQLGEGLYIEIMSL
PEKHGTYKDGQRIMLSEKYSCPESGFQLEEVPRIFSFNSPFGACPSCEGIGKESFFDE
KLIVPDETVSIREGAIVPWSKSSSKFFMDTLASLAKHYSFNLTSPFSTLSSKAKKVLFHG
SGNEIHKFEYHDDRQAEIIEQPFGGIIPSLEEKYQRSDTAWMRDELARFKSKAPCADCEG
YRLKKEESLCVKIDDLNIGQVSVKTIADAHKWFENIDSKLDAKQKLIAKRVVKEIQERLKF
LMNVGLDYLSLSRESGTLSSGGESQRIRLASQIGCGLSGVLYVLDEPSIGLHQ RDNARLID
TLKNLRELGN TVIVVEHDETM LASDHIIDVGP GAGIHGGHIIAEGTPEQIKNSEKSITG
QYLSGKKYIPVPDKVRIGSKDKEIVLSGAKSNNLQNLTLRLRLGTFIAITGVSGSGKSSL
LINTFYKAALKALEPKSKIYPGEYDSIKGLEHIDKIIDINQSPIGRTPRSNPATYTGAF
PIRDWFTDLPEKIRGYKVGRFSFNKGGRCACQGDGLIKIEMHFLPDVYINCDM CNGQ
RYNRETLEVKYKGKNIADVLSMTVEDATDFFEKVP AIYEKLVTLKEVGLGYIKIGQSATT
LSGGEAQRVKLAKELSKRSTGKTLYLDEPTTGLHIDDIKLLTVLHKL VNKGN TVVIE
HNMDVIKTSDHIDIGPEGGHRGGAI VVQGNPDTVANCKASHTGKYLKEYLKN SPKDSAF
WK

>gene_1540|GeneMark.hmm|224_aa|-|8913|9587 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MYKMCLTLRAKESIFQVNIYIKIINWFTMSKTKYPLMPKATAVWMIDNTILTFDQIAV
FCGLHPLEVKGIADGEVATGIFGVDPVSGQLSKEELERCSKNPKATLQIHLSAAYEGVM
KGAKKRAKYTPIARRQDKPDAIFWLLKNFPEINDATI IKLIGTTKLTVASLRDRSHWNIE
NIRQRDPVLLGICSQVDLDRVVEQAKLEAKTEAKNEAKTEEKKS

>gene_1541|GeneMark.hmm|132_aa|-|9675|10073 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MIHYQFNKLIRSKLPERMTNEGVLHITHLSKA EYIKELKNKIVEEASEVAETKTENLV
TELADVMEVIRALSEANDITL EIEAARVEKRSVNGCFLPENYIHYIEVAPDNHEVIEYM
ENKERPYKKLTV

>gene_1542|GeneMark.hmm|512_aa|-|10054|11592 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MEAKRIYDQIGGVAPKKG YVLFETGYGPSGLPHIGTFAEVARTTMVMRAFQQICDIPTKL
ICFSDMDMGLRKIPSNLPNQEMIASHLGKPLTAIPDPFGEKESFGHYMNAKLRLFLDRYG
FEYSFYSAATECYKSGKFDHMMVVRMLEKYDEIMNMLLPTFREERRKTYSPFMPICPDTGVV
LQVPIEKIDASRQTVFYRDEDEGELVETLVTGGHCKLQWKPDFGMRWSAMDVDYEMYGKD H
RPNAEYISAICKILGGTPPVQFFYEMFLDAQGAKISKSKGNSISID EWMQYATPESMSLF
MYQSPTKAKRLHFDILPKSVDEYITFNKKYHEEEDLQKLANPVFHIHNANVPVINTYGI
SFSLLLNLTSVCNPDDKSVLWSFITQYAPEATPENAPYLDHMTGFAINYYNDFVKNTKSY
LEPTDAQKTLRQIVDMLSALNGDETGA EIQNQIYAIGTEAKYENLRDFFKEIYQILLGQ
TSGPRLGSFFKLYGIKDTIQLIESKINDTLSI

>gene_1543|GeneMark.hmm|179_aa|+|11658|12197 >NVVL01000068.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MMKNINDNPEYYDIGIMSIKLNSTCLKNPYFLLLALS VFLLFAYFVEYIMGLAACPLCI
YQRFPYLIFIMLSIISLGGGQSYNKYIIITLVAIMLAAYHTSIELGIFEPSALCKPLV
SIDADFSVSDFFKMLYSQKIGTCSK PALVIFGLSMTVWNLLLLNVLLPIFIK YRNYEYK

>gene_1544|GeneMark.hmm|179_aa|+|12199|12738 >NVVL01000068.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MPKPYFEDKDKKIQEIIMVDHAGEYGAQRIYAGQLKYTNVPAEKKMIKHMLDQELEHLEY
FENKIKAGKSKPTALLPLWDIFGYGFGAISAKLGSKTAMLV TENVEEVIVEHYQEIDYL
EKTGKDAPLLQKIKKFKQDEADHINIALDHESKNAKFNKPLSALVQAICKSAIFLSKRI

>gene_1545|GeneMark.hmm|166_aa|+|12752|13252 >NVVL01000068.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
MRLLLMRHAHTHPSEDKPDIDRLLTKRGMSEAKEAAVFLCEYQVDKLLVSYAKRTMQTSK
IIQTHLSVQSEIVTELYNEGIEAIIDLLAAQEDRNKHILVIGHNPLIYEVALLSNPTS
AEYDQLIATLMPPARVIIIDFPDAVKWGDIRKMKGNIKKIFTPSVV

>gene_1546|GeneMark.hmm|257_aa|-|13328|14101 >NVVL01000068.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24987, whole genome shotgun sequence
LCEHQSSNDKKMMFRLWKYAISAWEPYLAKNKSLPIIAPLVLYNGKRKYSSYRRFWDLFV
NSDLAEKIMAGKCQLIDLQSMPEDEDILADKEFGLFKFFMKNIKKDNGIELWKECFKFKFRE
HIELDKEQELFYTKLLWSYTGKVKPIERKQELVSLILEQMEKIGKNGEEEMKTVADSYRE
EGRKGALEEGIFIGEERGEKIGEERGEKIGVEVERKKTVARMLKENFAPKIISSITGMSQ
RAISKLRSQLKLQGELA

>gene_1547|GeneMark.hmm|41_aa|+|3|128 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
NLNLDKKISKNIEYSRPAHLASKVLTGIHLYQQKQYSDNIK

>gene_1548|GeneMark.hmm|968_aa|-|251|3157 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MSKSKNVVAVARIGLERRTNKLAANLEILRKQHLLHKENAERIQLPDSNRSLMHELHL
SAIIQSKNLRFAHALSQAFPEIINKLFGLDDEVFCASLLKMSKDEIINTKGFLFFAVNQYL
TNNETESLFHLAAAFGANGVLNSLMISRQNDISILDSNGRSFIYILKLCQYNLLIEQMLS
RYPELDALNEETPDAASIISTSRTEEAKLAQLNQPLSPNTHFNEGIAYYIRYVFPDYN
DAKLAKKASHCLTQSQHCFMCFYFLTLQEGENDSLMQSNPDRTTVTMNYLLKIYQASRSA
DNMENPESDFLLNFIKNICINYPCLQQDFIIFIDEFHKTLDLFYEEAYQTVISSNSLP
IHLVLAVYMKNDTRVLYDAIHDKIGDVKSLCSLEDLDSLKSGDRLRLEFNATIELIGLE
QNEHLKSKLTA AVFLLKGLAIQQTSPQKAISFFNDVIAPSNKVKTAPKLLVDAYRLKGLA
LKNTDPNKSIDTFAKAICVINRNPYISLKTLEILLQSLSTYQNNDAANALHILNIAFG
NIMKFPDIQALYDAATSQHADCDCNRDLTNLRSHLSQWNIFEFCQIYRKFVWCHLLE
DRALASEQIKALDHYFNDPNSMHMLLLQHVLNNSSEALATFQRINPELLSDTLQTIYQRI
NEAFIEHNSRMRDESETRVQELEYKLFIQYAQTLLEYGANNFYSWFSALKEHHKIFSAQP
SCLHNPKFINQLLDQYASILERHSDNSHSLIEWRHTPESLSKLPDDLTKTLPSISSSFH
SEILKKPSDYLRNLPLNLLQIVFGIEAVFLEKEYEYARSCFKKFESNANLILLEICRQID
QDFWEYTCDDISRNAEGLYDLLNQLLAQPLSDDQEEKIPPALQVSNATPPTDHIAFDI
IEYFEYVLNQLLMPDGHDISFKQSVDYAVSIDIAPLESTLEIEAISPHEMNTSCSDFLLS
GNTEPWYE

>gene_1549|GeneMark.hmm|172_aa|-|3287|3805 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence

MSATRKPDLSAASSGNSGSTTIDSEVATVLGELIISTQATFASLSMLNHNITVSSGGAVT
VNGEFSVKNTLIIIEEGGSFSFKGSNITFLNDATLNYEKKCSDGTTTLIGTLNRENTHD
ENLITLTS DGMTLALDEDYALLTSGESSQNDQESAQLSGASGAPEDSDAL

>gene_1550|GeneMark.hmm|73_aa|-|3941|4162 >NVVL01000069.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MRGLFLVYVSFISVYLNLIIFIYMSFVFICTHCLYLDVVFYISTYSRGIAYRYQDEKIIF
YMMLHYRVLTNLE

>gene_1551|GeneMark.hmm|1149_aa|+|4204|7653 >NVVL01000069.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MRKVEIPLSSSSFFAWEHFKKSGKNILLCCSDEENAAAAYKQLLFLAGAGRHADILHLPS
LDSVPYDRVSPNSAILSQRADSLTKLSASQSPKMLISSAQNLLAKIPPPSLFENRTLIS
KGLSMGIEELSVFLVDNGFSRAASAIIDSSEFAIRGEIIDIVTSNKQGYRINFGWEKIESI
REYDIYSQISKNHLPSTLSSASEGVLNEETIASFKRNFLQKFGVNHRSPLYESILSGR
KFQGYEHLMPFLFYEMSSIYDFLGEYSVIYDNLVCVQAMLEHENTYDDFYQSRLLSNKANP
DSFYFAIPPEEFILPSSEVKDILAKDGNILLEPGEKGSREKDKKDRDHERLGSFGNLR
QAKIEEKTEFEKLFEVILEHKNKIPVILCSAPSSIERIKNIIIEEYETAKIIEELPRAK
NFINLAIAPMAITPMASGFVSDKYLLISEKGILGDKTATKSHKSSERKLKNILTELDNIS
EGALVTHREHGIGRFEKIQTIIYADKIAHDCLKIYENNDILYLPVLNIDQITKYGMEGAQ
LDRLGGANWQKRKAKLKNRIKDIAASLIKMTAKRQLAQAEVLFQASYEEFCNKFPYNE
TEDQLSSINDIKSDLEAGRLMDRLICGDVGFVKTEVAMRAAFMGACDINEDSPQIAIVSP
TTILCKQHYSNFIARFSGTKLRIAQLSRLVKPAEARKNLHDLANGKINIIIGTHALLASG
IKFKNLKMIIIDEEQHFGVAQKEHLKLNKTNVHVLSSATPIPRTLQMSMVGKIDLSLIA
TPPIDRLPIKTTVMPFDVAVVIREALMRERFRGGLSFYVSPRIKDIEFIEEQLNKFPPEL
YKVAHGQMPASRIDDIMSEFCDGKFDILLSTTIIIESGIDIPIANTIIHKADMLGMSQLY
QLRGRVGRGKVRGYAYLTLDHKKQITKHSMQRLEVQLNIDSLGAGFTIAGHDMDLRGFGN
LVGSEQSGHIKEVGSLEYQEMLDEAIAELKQQETFEKQADFTPINLSIAILIPADYIDD
SALRLAIYRRAGDLKTYDEIESFRDEMIDRFALPEEFGNLLRMTAMKNTCSRLKIESLD
SGPNGFVLKFNKNFDVSNMVMGFVNKYPRHAKIKPEGKLVFLQSLKPEILLKEAEKLLQE
LGDCQQKAI

>gene_1552|GeneMark.hmm|188_aa|-|7797|8363 >NVVL01000069.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
LIKALKLTIASIILVWCGGFFYFLQIINHTPINSVAITDAIVVFGGDSNRLRTGTL LK
GYAPLIFITCESSQEYTDLIKKHVVIPEQFIVGTDVANCKKSHAADTELFLEQYQLRSL
RLVVDVSVQLPRALMELSAKLPDPTIIVPHETDIEHKDYVKVLKEYIKYSTLVVMSVLGVQ
TDLKMSYS

>gene_1553|GeneMark.hmm|243_aa|-|8360|9091 >NVVL01000069.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MLKSYLAGDNHQMTEWISLPLVYNDGIELMEKRLFVIESQKPEAIFLLEHEDVYTAG
TGKDSSELLAGTSSKETETELLAGTLLQETESSELLRAPKIPVIYTGRRGKFTYHGAGQRV
IYPILDLRTREKDIRLYVKNLENWIINSLAHLGLKAYTIQGMVGIWVEQKGTAKLGAIG
VRLKKWVAYHGISINITDLSKYSGIIPCGISNFPVTSKELGIEVSMQEFDSILKNEFR
KIF

>gene_1554|GeneMark.hmm|636_aa|-|9063|10973 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MKIKLLSNTTINKISAGEVIERPASVVKELVENSIDAGATQIEITLEQAGKNLILVRDNG
IGMSKEELELAIQRHATSKLDEDDLINNSFGFRGEAMP SIGAISKFKITSRKRGSSEY
SLSIIGGTQEATVGATSNEGTVIEVRDLFFATPARLKFLRTDRTELNASVNLIKRIALAH
PSVAISLIHDGKELIKVPLEGTSAEALKNRIIEIIGAEFIENAVQIDSVRGDNLRGDIE
ITGYTSLPTYNRASAEDQFLFINNRPVKDKILNIALRVAYQDYLSRDRHPVSVLFLRVAP
HFVDVNVHPAKTEVRFHDPNLRGMIISAIKNALSSSSYRVSTTASDAALSYMRGNSTQP
DMQGNTQPAGFAEKASTSASATSQGGFSMPSSGGRGSANRYAHTRGASSHAPRVDYALAAQ
DFLAEAKPESFIETQQEELPKSRFPLGAAKAQLHGTYIISQTDDSIITDQHAAHERIGY
EKIKEQMEKNSMIKQRLLIPEIVELPDSARADILIDHQDALS KLGLTIEKFGEKSIIVSE
IPSLVGEINPASLICDLAEHLISMGENIALTELIEHVTETYACHYAIRAGKKLGGHEMNA
LLRQMESTPFSGQC�NHGRQTYVELKLADVEKLFGRR

>gene_1555|GeneMark.hmm|416_aa|-|10970|12220 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
LLKKDFIISVLTVFVQYYDYHLFGFLAANIATHFFPADEAIMQLLNTYFLMSVAMAAPV
GAVIFGKIGDVVGRSNSFKISLIGTAIASIILFITPSYESIGLLSAFILLIARMIICAFV
SSGSDGVRIYIYENIDKSKQCLGVGVTSLFAQAGSLTASVSAWFFTMNSMPDYSWRFAFL
IGGIIGFVILIAMS KTNLSDMKPVKNHPRFEFRDLSIGTIVKSNKGLFFWCTLLAGGIG
STNQFILIFFGTYNFEILKIIDRALMQSYISLAIAYMIIFSIVGGYLADKFDYKVTIYA
SIMVIILSIMLSISLNQMMVRAELFIAIAAVMPFITMPSAAILKQSIPVVIRYRLFALSH
ATGSIIFSAPTALLSTLLYHKTKLTWLPVCYFITIIMISLSLYHLNKRRISEPEE

>gene_1556|GeneMark.hmm|360_aa|-|12272|13354 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MKKFKNIKNTTHKKARVGTIETAHGEIQTPAFMPVGTRGTVKAMMPESVKATNSDIVLGNT
YHMLKPGAERIARLGLRKF MNWSSPVLTDSGGFQVMSLSDLRKISEDGVQFRSHIDGS
KHMLTPEYSTEIQHLLDSTITMAFDECTYPATFEEAKSSMELTSRWAQRSRDAFKIRDG
YAQFGIIQGGVYEELRAQSAKDLIPMDFDGYAIGGLAVGEGQEEMFVSNYAPDLLPKEK
PRYLMGVGKPDIIIGAVKRGVDMFDCVIPTRSGRNGQAFTKSGTINIRNSHFADDNEPIE
ADCPCPACMNYSKAYLHHTVKVGEMIGSMLMTWHNIQYYQDLMKRIRAYIAAGKDFDFDC

>gene_1557|GeneMark.hmm|66_aa|+|13662|13862 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
MSEVIEETEDAAIWEESVVGQEALVAENTATKTPAPPADRPKSTSKNNKKKTEPSRQAL
QGNLRQ

>gene_1558|GeneMark.hmm|64_aa|+|13882|14073 >NVVL01000069.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_24995, whole genome shotgun sequence
LKKHLPEDLKKHLDLHDKVERDTFVSEDLKESMSDIVYKIKTKNQKKDGDVILFLCEHQ
SSND

>gene_1559|GeneMark.hmm|97_aa|-|3|293 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
VTFHDMRLRKLESYAATRTEGNFDSKALVANLRRAAKGNTYRIYAEPQSEQGGFRVAARI

EKDVDGEVKTHLMIRADKQCQSMEEAMTTSVRKAKILI

>gene_1560|GeneMark.hmm|189_aa|+|287|856 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MSHLYYRNLEKIGFSKAEIKEIADDHEVIDGPDNEGDMFERKALPSDNFVPPYPNEQAAR
ASNINGAFPADLSLVVKARPDGANYLFSLLTGYS DAPAGVTLMPGLSYNPYFEGGQIAMPP
PLASDQVEFIDGTPATLEQMARDLTIFLQWAAEPEMEHRKSMGLKMMMFLAIFTILFMIA
KKRTWQKLD

>gene_1561|GeneMark.hmm|298_aa|+|1033|1929 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MNTHQPEAIAIIDSMENMYHKLRYIPSKINSMSVTKIGETLIVDSALPSDTFNTAYGGH
ITLEQTKLVMEYYLNRKMPMAWWICSSDDNKNTKDDMESAGFVHDEFDVGMYCDLSSAD
LDEYTAPEDLQIIECRSAQEFDFGNVLSIFDPTDEYVKIFYSKIQAIPQDAREDILIF
VGYANNQPVATSGLFITDVAGIYDVSTKPNEQRKGYGSAMFHTALAYAKNKGLKTSILQA
SPDGLNIYKRFYKEICDFNTWSNKAKLELQEEKSFSKLADERIATTKKWVSHEDAWK

>gene_1562|GeneMark.hmm|70_aa|-|2007|2219 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MDNSFTLTANLIESLQELDNKHVMISPVLNVGAVSNYTKNTDLTFEEVRNAAWLNSRNN
QSTKKLRLQA

>gene_1563|GeneMark.hmm|329_aa|+|2507|3496 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MHFWGYMRVENKFNLSLIVILLSVLIVSCANQISNKNTQSNQGYIQVQGGKIFYKSMGQG
TPILVVHGGPGLDQTYLQPQLFEFAENHQLIFYDQRGSGKSLESTDNSSNINIEQFIADI
EELRTKLGLKKIILMGHSWGGLLSMHYATKYSKNLHGLILLNTAPANHKGQKAFVDSFME
RTANIKKDITPLFSYKEFEKQANANEIADLYRKVFSVYFYNQSDVKSLNLTFFVNSAKSGF
KVNEKMSKTAWLETGINLLPQLKTLKVPTLILHGKQDVVPLWTAKEINSVIKGSKMITLE
NCGHFPYIEKPNFKRAVNDNFINTLKDTN

>gene_1564|GeneMark.hmm|59_aa|+|3543|3722 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MERSKSFVVKAVEQYIITTKEDAEDIKAAALQALEAGGSICSLEEMMEELGIEHDRATN

>gene_1565|GeneMark.hmm|129_aa|+|4048|4437 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MSKDTDNIKNSRPLSPHLGIYKPQITSMLSIGHRLSGVGLFFVLAATCWWFALWVFSRFD
PAYLDILDNNFVKTILIIASYGFFYHLCTGIRHLIWDTGRCFSICAVHYTGWLAIIGSLA
LTLVYWLYI

>gene_1566|GeneMark.hmm|127_aa|+|4449|4832 >NVVL01000070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MENKFKSDLSLAKNLGSAAHGSMHWWHQRVTGLFLAIATIWFCCFSWEISASEMSGVVEV
IKKPWHVVMLSLFLAAFYHSLVGMQVVIEDYVHSRAWRVGMILLVIQIFSIVTAAALIVA
ALYVMTL

>gene_1567|GeneMark.hmm|595_aa|+|4847|6634 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MSKPYNVINHEFDV V V V GAGGAGLRATFGMAEAGLSTACISKVFPTRSHTVAAQGGISAS
LGNMGKDDWRWHMYD TVKGS DWLGDQDAIAYMCKNAADSVIELEHYGV PFSRNKEGKIYQ
RPFGGMTTEYKKGKAAQRTCAAADRTGHAILHTLYQQALKHQAQFFIEYFATDLIMEDGV
CKGVLAWNLDDGTLHSFRGHTVVLATGGYGRAYFSATS AHTCTGDGGGMCIRAGLAMQDM
EFVQFHPTGIYSGCLITEGSRGEGGYLVNSEGERFMERYAPSAKDLASRDVVSRSMTME
IREGRGVGPEKDHIYLHLNHLPEVLASKLPGISETAKIFAGVDVTKEPIPVLP TVHYNM
GGVPTNYKTEVITLKD GKQEIVPGLMAIGEAAACVSVHGANRLGSNSLLDLVVFGRAAAHR
AAEIVEKGM SHSRLKEGTIDALIDRLDEVRSSK GKILVSDLRLKMQKTMQNYAAVFRTEE
TLEEGKRLIDEIREEYKD IKISDRSLIWNSDLVEALELGNLIDQAVLTMHAAA NRKESRG
AHAREDFQDRDDKTWMKHTILWLNEDGKVTIDYKPVTLD TNTDEVDTVPPVKRVY

>gene_1568|GeneMark.hmm|261_aa|+|6652|7437 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MAEMRLPKNSRVESGEFHVGIESAKTPKRLKIYRYNPDTAENPKLDTYEIDL DSCGPMVL
DALIKIKNELDSTLTFRRSCREGICGSCAMNIDGTNLACTKPIEEISGDIKIYPLPHMK
VVKDLIPDMTHFYAQYASIKPWLKTDTPVARGEERLQSEEDREKLNGLYECILCACCS TS
CPSYWWNGDKYLGPAILLQAYRWLADSRDEADGERLHELEDPFKLYRCHTIMNCTSTCPK
GLNPAKAI AEIKKKIVERVGI

>gene_1569|GeneMark.hmm|290_aa|+|7610|8482 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MFEKPLISFDFAIKFLLKSKEDYEIIEGFLSALFVANNYKPVKITALLESESTKEAAHLK
KSVADLIVEDTDGNKFIVEIERSFTPNFTHKACFNTARLISDSLSTSQDYSKIQKIFHIS
LLYFETAGMEKPIYHGKTIIEVDTEHPIDIDIMNQGIATFESKNIFPEYFFISVPRFND
QIRSEMDEWLYMMKNSEVKKDFKSPYMARVAERLKV LHMTDDERA EYHKYLKESAVQEDI
LKAATDRGLEKGRKLEKIEMAKNMLTQSLDINIISKVTNLSINEIEQLRS

>gene_1570|GeneMark.hmm|306_aa|+|8512|9432 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MNIRDSEISSIEKWQEH LAVQRNYSMHTLQSYLGDNLHFLDFTTNYYSKSASLGQIESI
DIRFIRSWLSARHREEYSAGSNARALS AVRN FYKYLEKKHDIHSHV VFTVQTPKKPKALP
KALS KQDVTASLNNIDLIGNKDWIHC RNKALLTLIYATGLRISEALS LTKQHLKNHEFIK
ILGKGNKERVIPWIEESRLLLEKYIQLLPYPIAPDEPIFRGQKGGILQRAVFNRELINLR
RALGLPEYLS SHAFRHSFATHLLENGADLRSIQDLLGHQSLSTTQRYTKINKTHLESVYN
KAHPES

>gene_1571|GeneMark.hmm|737_aa|-|9608|11821 >NVVL01000070.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
MSRTRLNEANDNLVTAVREGKWYSIPSCLEKDADIN YTTKSGK TLLMMAAKNGHTYTVQE
LLKLGADVLC TTKGNSALT LAARKGHVDTALLLLELGADTDDIHPNDLDDGLCEFRNAL
MKA VQKESKYIVRILLVIPDVDCEAALIMAVDDGNLPMIDLLLDEGIGIHLITREALTR
VATNGRYDVVSSLLCAGVDPNYLGEFFYPVLRDAVQNYGIEVLLKLEANPDSIYSRDDA
GYTLLMHAVQNGCLSAVNELLKVAPNIIHMDNERNTALKIAKSL ENNPISIHITFALLE
AGANPRDLTESEM GTTLINA AKKGK KDVIQILLEVGLDLN QDDEFGYNALTYAAQNGHLV
VVEMLLEADVNPDYNEFAPMREAVTNERTGVVTALLKADANPNCTIKFGNTPLMQYAKKG

DSAMVKMLLEAGANPNDVNKFGYNALSCAPRGTGDEVRSILLEVSDDPIPIIELSLPAF
SDTKSDPESDSEEEELGEFIDELWRKTVLGYIEERLLEVS DHRPSSTLPDFSDSEEEYRAE
QLGIGKRAQTIDLLSGDINLMRQQLLTQAAENGWHDTVSLCLNEGADPHDLSRSQFGATL
IKAAKNGQNDVMQILLDAGADLNHSDEFGSLLAYAAQSGNSAVVQMLLAAGYHPDNDLIT
ALKISLENDYNGIVGMILLEKAAGPDYVDQSGDNALMRCALSEVSNHRPSSFSYIDDPEEK
HLTVESSESSEESDCD

>gene_1572|GeneMark.hmm|660_aa|-|11970|13952 >NVVL0100070.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25018, whole genome shotgun sequence
LNEKQNNLIDNLTNCIKILSVDAIESAKSGHPGMPLGFAQVMTVLATEFLKFQPKHPKWF
NRDRLVLSAGHGSALLYSLYLAGYQEFSLDDLKNFRQLHLSKAAGHPERDMHDAIETTTG
PLGQGMANAVGMAIAAKKYKAELGKEICDHKIYTIVGDGCLMEGISYEASVAGHLKLDN
LIIFDDNSISIDGKTNITVSEDHLKKFEAMGFNTTRIDGHDTTQIRAAALAEAQNSDKPS
FIACKTVIGKGALTKEGSEKSHGAPLGEDEIKHLKSQIPFAKGFYIPEELKLAWEDTSR
KSDKEYLAWQENFSKLSKSYLPASVINIPDIESPNKPEATRVSSGKIIEALMGQERK
IICGSADLAGSNNLKNQWSRAISAQDFTGNTIHYGVRENAMGAIMNGLALSFTPIGGTF
FVFSYMRPSIRLSALMGLPVIYVMTHDSIGVGEDGSTHQPIEHLASFRAMPNINIFRPA
CFTEVKECYEIALKSKSTPSMMGTSPMMVLTRQAVPRIRSGDSGSSVDSGNMSSKGGYII
SEANDASNIDITIFASGSEVGLAIEVQEALELQGKSVRICESVPSMELLWAQGDYLDLDR
GNAGMIAAIEAASSLGWHRIIGSKGRFFGMDSFGASAPAKDLYKHFGLNADAIVNGLLRS

>gene_1573|GeneMark.hmm|67_aa|-|12|215 >NVVL0100071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MFRVFLIIIALITIIIASGSVPQLSMLAWIKDVFFSAARLIFSIVRGVWPLLILAACGY
LLIKKSR

>gene_1574|GeneMark.hmm|512_aa|-|303|1841 >NVVL0100071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MITKISSLAFNGIDITDVDVQVQIEPGIPKFTIVGLADKTVAESKERVRAALLSIGLSLP
AKNILINLAPADLVKEGSHFDLAIGACILASMGALPAEQVANYLILGELS LDGAILPVNG
VLPVAIGASARGKGVICAKQNGSEAAWSGNDDILAPANLLELINHFKGTQTLEQPKPAVN
SKTVTYPDLKDIKQKIAKRALEIAAAGGHNLLMFGPPGSGKSMLAQRMPGIMPELSPME
MLECSTISSIAGRIQDGCLTRERPFRRSPHHSCTSAAMVGGGVGRKVKPGEISLAHHGVLF
LDELPEFN SAVIEALRQPLETREVLSRGAHV KYPANFQLIAAMNPCKCGYL NDSYKSC
SRAPMCGSSYRSKISGPILDRFDLHIEVGNSEVDYNYDQILNVS GEESSQDVAARV KAAQ
LTQLERHDGHNIRLNNSLEGQLLIDYAVPADDGRDMLNEA AKKFRLSMRAYNRVLRVART
IADLGGVKSVRKI HIAEALS YRQFDFAEQKVA

>gene_1575|GeneMark.hmm|443_aa|-|1883|3214 >NVVL0100071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MTSKNKMGLTPTEIVNELDRFIVGQKNAKKAVAVALRNRYRRACVAEPMRSEIAPKNILL
IGSTGVGKTEIARRVAKLEDSPFIKVEATKFTEVGYVGRD VDSIIRDLVESAVDFQKTQA
KKDIAEKAKDRAIDRILETVVGKTASEETKNRFKEKVLSGELDSTEIEISVKDTPAAGGN
FFDVPGM PGASMGVLNVT DMLGKVMGG EKTKQK KLSVKDAIK IIIA EESDKM IDEEKTIE
KAIKAVENDGIVFLDEIDKIASSSSETRRGQVSREGVQRDLLPLIEGTNVSTKYGTVKTD
HILFIASGAFHLSKPSDLLPELQGR LPIRVEMTALTKEDLVKILTEPESSLVKQYMALIA

TEGVVLEFSDEAIENIATYAARFNMEIEDIGARRLHTILEQLLEDISFDVTHSKKKKITI
DKKFVDERLSGFVKNRDLAKFIL

>gene_1576|GeneMark.hmm|187_aa|-|3211|3774 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MSNSSTNGADLRGTTILCLKKGDDVVIAADGQVSLGNSIMKSTARKLRTLSDNKIVAGFA
GSTADAFTLFRLEAKLDQHSNQLVRSVELAKDWRTDKYLRRLEAMLIVADKDNILIVT
GTGDVIEPEDNIAAIGSGGLFALSAAKALVSVEKNKMTAEEIAKKS MNIAADICVFSNHN
IIIEKVV

>gene_1577|GeneMark.hmm|122_aa|+|3850|4218 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MNIYSIYTNPNKND DAPVPIKQGFSLVAGLFWALYHKMWSVALFMVLITTFIGAIIDS
SHTGFSVNIMIMLTFAIFASDLMENRLTKRGFKLDDIILAANEEEEAEIRYFMRKNSNKSE
QL

>gene_1578|GeneMark.hmm|112_aa|+|4277|4615 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MYDKNNVFAKIIKNDIAGEKLYEDENLIAIKDINPEADIHLLVIPKGDYVDLADFTTNAS
AQEIEHYFKMIIPIAKENGAEYRIVSNSGASAGQSVFHFHTHILSGSKLSM

>gene_1579|GeneMark.hmm|360_aa|+|4681|5763 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MSKEYIVAIIGATGNVGREVLNSLSERNFPVKEVIAAASANSVSGKEVSFGDDQTIKVLQM
DELDFAKIDIAFFCAGSEVSEKYAKKAASKNCIVIDKSSLYRLEKDVPLIVPEANINALK
DFSANAGDASTNGSAGTADASANGSRGGIISNPNCVIPLAAALKPLDNEAKIKRIIVST
YQSVSGAGKSAMDELYLQTKAKVFENTTPSVFPTQIAFNLIPIQIGDIRDDGSCDEEYKI
EQEMQKIMGNHISL SVTCVRVPVFSHMSVNVFENDMNAEAEELSEADGIIVYSRE
NEIQYATPVDVVEHDEVFSRVRDDKSRKNSINMWICVDNLRKGAALNAVQIAEEIIKTA

>gene_1580|GeneMark.hmm|295_aa|+|5872|6759 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MILSDEEIGMVQKNESQFVSFKYLDDKGV LKQIDTSFQNILDGKRFFSDDSINLKTIIIGK
AFIDPFRSPTTSFFCENLTSKDNQRGKAIKLIDEYSEPDFVFLGAEIRFWVFVKINDCD
KFTSGFVDPFANLRSDIIACMEKINIPTTHNCGEIPTESVVGIEGNSIVDLADNVLLAK
FIIANVTDSYGMSALFSCDPSASNLALLARGNTERMTENARNITRDSAKIKEVTGLKTDN
LKDSSVLTIHKAELNDDL VNIKISMQTKGEFVYPYLAFTELLLYNAVGS SLGNTVF

>gene_1581|GeneMark.hmm|585_aa|+|6908|8665 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MAKNFNQVDKPLNPLKAALEKCRAAFVVFVFAFFINLLMLVTPLYSLQVLD RVI GSGNL
STLLMLSIIIGVVYFVHMKLQIARSFTLIKVGWLDNNVAPTIFGHSISASATKVN PASS
QLLRDFQTIKFFTSTGINTVFDAPWSIVYITVIFLIHPYIGLITIFGAVLIVSLAFFNA
VATNRTLGEATEFSIKSMGQAEIANRNAEAVEAMGMIANVKKNWAKFNEASLAKQSTASY
RNGVIQNF SRFIRNIMQMAVTGTGAYVVVSTNGQDMTTGGMIASSIIVGRALAPFDNSIV
MWKISIGAMKSYKNINSSFDKHEERDQAMPIPHVDGHILTVENVYAAPTPPGKQPMPK
HILKGVSFALQPGESLAIIGPSAAGKSTLAKLIVGVWHASSGSVRLDGGDVFTW NRENF

QHVGYLPQGIELFGGTIKQNIARMMDDADPAKVIDTAKMCGAHEIILRFSDGYDTDIGPG
GNSLGGQKQRIGLARAFFGDPKLVILDEPNANLDEAGEMALSDALKAAKARGIAVVLIS
HRPSVLSEVDKIMVLQDGSVASFGSREEVQGRIKTLKNGMIHIND

>gene_1582|GeneMark.hmm|528_aa|+|8687|10273 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MSDNKEKLTPEKLIKQIQQLQQMMAMAADKGVPGGLPPGGLPPGFPMKKPSKWSLKGMF
IGTLQGMQGGVKFIDQFVNFITKQDGDKTNDVIKNARSPILFGTFVIFFFVLVGVVWSAT
APLDSAAVAIGTVISKSQKQINHQEGGVLEKIFYVEVGDRVEKGDKLEFDDTKMHSEYE
IILNKYRIYLAIETRLTAEINDDPEITYPKFLLDDQSVPEVAKIETQNSMFYSKHEITV
AEKASIEQKVKQTNLQIDAQNARKVALNKTREIVQDRLEASKKLSKKGIIKKTDLNLEE
KEAGTLGELAIADIEIAKMHQEIISNIELINLDNQVSTRAHQELKEVQLSLAEAKERLV
LLKDALS RVIVRSPVDGVVNNLYHHTVRSVIQQGQPIVDISPTADSLVIEVKLEPRLISD
IKVGR LAKIRFS AFKSR TTP LFMGEVVS MSPDIVIDPRQQNNPTLANGYYLARIEIDMDA
FEEIAKTRNLELLPGMQAEVQIITGTRTMLQYLLDPVFDAMFKGFKEK

>gene_1583|GeneMark.hmm|51_aa|-|10476|10631 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MAGSFCSANFKLACQLKLFQKLVEMEGIEPTTFCLQSRSTPELHPHFVE

>gene_1584|GeneMark.hmm|80_aa|-|10661|10903 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MITSCGRICIGKKKINVSTVLAGQNVGIMQVEDNIWLQVFMDFDIGYFGMDSCRIEPTTD
PFGVKLLSMCSVYTAMSVIR

>gene_1585|GeneMark.hmm|61_aa|-|11022|11207 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
LSKLSVWWLRLGIKIERIKHGNPQQNGRHERMHRTLKQDAAKPAAFNFLQQQEKFDHFVK
V

>gene_1586|GeneMark.hmm|59_aa|-|11204|11383 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
LTITDNYSRYLLACEGQESTKAFGAFVFEAVFKEFGLPEKLFVIMAHHSLRAMLYMA

>gene_1587|GeneMark.hmm|466_aa|-|11729|13129 >NVVL01000071.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25058, whole genome shotgun sequence
MSKDPMSDIEEVNARTKRNRRDVENDIDEPQAKRAKTSDEVNAGAKRNRSNAENDIDEPQ
AKRVKITIEEMIKMHVRNNDMAENILDVVG YFAESGYLERFVESLDDHSRSVLYDEITSL
DSSMNQEIIRAMNAGKVADLLDCQYADSIFEGRQDEIFQAITRENKLDKLTSGRHDALH
MFNRFSSDDIISMVYKPNMSTENIQSVIGNVVEGCLERFVESLDDHSRSVLEANINNS
NIQLEIVERAIDAENVAALLDCRYANSIFRGMEQRVIKAIKENKLEDELLHGDRSGKEY
FAKLMLEITSDIPEDIIVITDKLQNLDLLSSAKEALLERHRQPRNPRSRNPARPDDPIPQ
KHPLLQHIYVFENETMRKDAAMHSLDERKNPEIPREVSRLVSEFTHGKDVG AHNFLPLP
EDQQQLQQSARTLRASRASTQTSSSSAPRGGQPKPRNVRGDGLGR

>gene_1588|GeneMark.hmm|195_aa|-|82|669 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MVEINWTFEEFFSAGGNTKFEDRLASVLGVHSSRIKIVGVKTGSSIIHYFITLNEEYAND
PDKQKLELSKINDMLASLYASGEFEKHLGMPILRMESYLSGPDGAGSTGNNSEKSESNV
KYPVLGLLIFSAALLILGAIVAFMVMRRRSKYDMVQVRSTSDVAKDDGMFTSNKFDIDAT
LADEEKFNVSNAHLK

>gene_1589|GeneMark.hmm|70_aa|-|741|953 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MNYKEKMMLSRDYRSEFNSLMLDIMQFTLNLSMENFNLNKSRNAMPSMMVTLNVPVILLK
ILVENAHGPR

>gene_1590|GeneMark.hmm|102_aa|-|1315|1623 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MFGYNTHMTDYQAITEVTGITIIDSNIANLHVAFDAPIEWVQLSICGDFHCTGPRNYFIS
ISESTIDESCTNDYGFDFSMTGGLVPPNRIVDDFVSVDDCT

>gene_1591|GeneMark.hmm|60_aa|-|2308|2490 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LEETEGAPLRQLIQYCSFNYGRGWAINIDEAFNVDILNNVVFHHVAIGFQVTISTNVLIS

>gene_1592|GeneMark.hmm|61_aa|-|2728|2913 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MIFTEHNDRLYHVDRVLAKTDPQTISAGDLVKDIQGYYTILHNAEEGYFYIEIKGDGWG
A

>gene_1593|GeneMark.hmm|189_aa|-|2956|3525 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MTRLLESAEIGSTTITVDESEVSNWVIGDRIALAPSGFNAREGESFTILDISVDGNLATI
TVDEISFYHFGAETGAGESDCSTDIRTEVIHLRCVRIIGVEDQTLKVIKSPINDEDS
SSTKSASSTDGSSKYDSAKSSSSCSTKKSSKSSKSSKSSKSDSKSKSKSDDDEEERRV
RRLSLTGGR

>gene_1594|GeneMark.hmm|60_aa|-|3522|3704 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MKILQLKMFKIIHSRENLSYCLVISKMLILLQEVLLKQAIKLLLTLEASQLILTITTNQ

>gene_1595|GeneMark.hmm|178_aa|-|3706|4242 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LHAKVIIICRDISKICIPGLIAAEKETFLRYWSNSQHWFKAEPEPERRRLLIREENDDEEDR
DGFVRYELPVNGDNVEILEGRNVIYDLFYSPPTNNTPALRTVIVNGNLIIPMKKTKHNGS
EEGGIIYIQDEIDYDKPKTAYDKLASNNAEAEDFIGRIQAKHIFTRKGVVYVGLFPE

>gene_1596|GeneMark.hmm|68_aa|-|4312|4518 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MTHFLHNTTAYREDIDLTAIGSMCTPLEFKLTLTDSTIDNMLDGASHGDNYYDYAAEMWHF
VISGYQQN

>gene_1597|GeneMark.hmm|139_aa|-|4870|5289 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
VTPSLPEDGAAEEILFNMIFGNGTGVHNSREVRKLTFTKYNPYYTFRGAHLNIIRVTD
FLGEFDEEIESNLPCVEEPEEGVRLKKRDRKHGKYYEQFKNHKGKSTSSDDNDNES
GSKSKSKSHTSHSHSH

>gene_1598|GeneMark.hmm|66_aa|-|5316|5516 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MDYPSMLLKEFILVHLEDKFSKIPITRSLIYQNSLSPKISLISYGLFIILGTLSQFTH
MEDLNI

>gene_1599|GeneMark.hmm|105_aa|-|5517|5834 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MDILLTSLLEELQHWQEIILKAMKSTVDILMSAKEKNLYGVSSLQELKTSKSTMFTSQ
STSANAITELSLMAQIALIELLSEPVHIVKHGIQHLKEGIKLL

>gene_1600|GeneMark.hmm|63_aa|-|5919|6110 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MKLLELSVETEHQMKCMDLEFTARCITLLMHSTSRDHKLSLKTSLAIRMSDAELFTLM
LDI

>gene_1601|GeneMark.hmm|146_aa|-|6112|6552 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MNTEFQYVQGAYQIGRYPLHFNKIGNARESIVSGCSIHNSYNRIVGIQGTNNLLIKDNVS
FRTKGHGYYFANGDETNNFNNLALIVERSWSLLNTDKIPSTFWIRHPMNHFIGNSAGG
SDGNQFWYDLESQPRGSTFGTSSARP

>gene_1602|GeneMark.hmm|151_aa|-|6637|7092 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MTRVDITLSGTYDPAVPVFGKKVLAARNGLISFVGQDVVDHTFLNASSVPWESHISVA
GDAGWHVGDHIVVGTTSFSNYESEERTIVEISYDETSETTSITLDTALWYHHFGDLFSAG
KTGEEKDFEMRAEVALLTRTIRFRGNPESQ

>gene_1603|GeneMark.hmm|150_aa|-|7593|8045 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MVMMVLSIFIDQKIVKFLSHSQMVIEFHMSLDLIIGFQMLMIVKQITLTEMMDLSFMPQK
MELKKMLFGKQELRYNLDIMMLEFLLKDLILLFSEVKVTPVLLRSNSKDILFMNLMNV
LLKLNTLIKEVEHFMIQEQLLHLIKPRHCQ

>gene_1604|GeneMark.hmm|65_aa|+|8484|8681 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LLKAHNEQQVQYHQFQDQIQLMLQYLKQLRMFQLDYHLILHKQLMIIQHFLSKSTDLLSQ
LLISK

>gene_1605|GeneMark.hmm|140_aa|-|8890|9312 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence

MTYNIQDNLDGSM T LSVYIAYIEPRHCPTGGHTGKIRVFLKATDEASCDYDLENGGCTKI
EWFEPD TDVWNITGLSFDG NVVATGSGFETNPEFSLFVIDGQAMPVQTATATKLTARIT
NLKTN SHTEIFIFPQGGV PK

>gene_1606|GeneMark.hmm|62_aa|-|9433|9621 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MNACRFIPG SNGKDAGEYGLLFPGGPSGVYNMRLYHPIARAFKYSKKFVVEALITDIVGP
DG

>gene_1607|GeneMark.hmm|151_aa|-|9736|10191 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MRLTGIGLPETMEEATAFNMIVIITDSAKRERDVDSNNLIACEISDIIESGII ECSFIPS
EGCIDPESPGCSILEDES GTYIAVLFYGYDFLESFGDNLDNFVNSDI ELVGTSKKAGPNI
RIFAFGGTFGSLETT SVSPVLKTEMIVQTTK

>gene_1608|GeneMark.hmm|90_aa|-|10234|10506 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
VTDQDWDVDDRILTIEGTFGTLEHTLRF AHRDGVILSWTDTEITAFVNNPLAGAWGVEVI
YPEGNAIIDTALLNCEIELFFHGPN SKII

>gene_1609|GeneMark.hmm|91_aa|-|10546|10821 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LIESSHDILSITFVSSLTNP LEGQSDTQWNAYMELEAVQSVTSFGHYDDSYFFRYVAIEN
LKA IHDGGSDHLLVKITHMGVVVDAYCTNIA

>gene_1610|GeneMark.hmm|162_aa|-|10984|11472 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LIDIDPVTDNDEPFHF ELLSRHGSWTESESYTNYP SAGTLRNEIYNFGTLEHWDGEFRV
YKNALTDGGFVYEFVLLRSV DISRTGDAEQLVIHGVRIVTDVEEGIVVLKNEEALVGRDL
PAEFDIPEGEEDELYGLYTISNRPVQGGQLTRITFLDSFGDE

>gene_1611|GeneMark.hmm|166_aa|-|11539|12039 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
LTDSPAITD SPPTGVTRKIWYGN DIDTWA EVDYENPQVEEY YGGAETIHYRNYYCEELDG
IFVNPLAGEYRFYTSCDGSVDFFFNKGSTAFDELAIVADNSNKNSGFRSYHHTGDGEGTP
FTFAASGEQSRFTFRHCHSTGDDYCSIGMEYQVLATEDALPTNPAL

>gene_1612|GeneMark.hmm|154_aa|-|12466|12930 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MGGADVEFTGQM FNPQTENN FVKIKSRESDDRARTFAQTYT LSGKDIFIYYKDEDISHSN
AGLGKLVWRSPPLADLLGMTEPHHLNTS FSLWLEYR NHATTDITCNGGQGGCSYTSSWK
TTPFNFGVIPHTFGYKQRVSAWLQGRHSASYKSD

>gene_1613|GeneMark.hmm|42_aa|-|13005|13133 >NVVL01000072.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25088, whole genome shotgun sequence
MQRKKYQALWVSALIICVLLMAATGKIGSLIFQRDELLLLTE

>gene_1614|GeneMark.hmm|211_aa|+|46|681 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MTYCDHSNQEEYPFKLELPFAKDAFAPHFTPETFEYHHEKHHNAYVTNLNKLDDANKEL
TDLDLEGLIVRTNASNAAIFNNAQIWNHSFFWYSIKPGGGGKPEGEMLEAIEKDFGSYE
NFAAEFKAAAIGQFGSGWVWLVYHNEKLMKTSNAETPITQGAFPLIACDVWEHAYYID
YRNKRDPDYVSSFLDHMINWEFGLMHLKRATQ

>gene_1615|GeneMark.hmm|210_aa|+|933|1565 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MSIKLQSVIAITLLFLIYVVINLIYWKPNPINSNIECLQECVYKSPNRKTITLTSMMNL
LEIKFIANSARTCFNPSFPIIHIKTKSDHNAWIHIVRTDAAAEEELRFFIDTDKKFTPFYN
FNEDFYDAPFWYYGIFNKPLSFWEHAYAVKVDHDSKTITCMGGIKWGFKLQYFSLPKPM
IDPISLHEDWKKDWLFFSKSLTGYTLKVN

>gene_1616|GeneMark.hmm|113_aa|+|1859|2200 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MFEFIEFASAIRALYQYVNDDELVEEDFWLITEEQRKRLPKEDQGTGVWYMLNPKQKKDQN
SVFLVDKAEKDLIRAVAFIKSSAKKLPEASFLKLLYCKKTLPPVLFKLES

>gene_1617|GeneMark.hmm|96_aa|-|2267|2557 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MAKKQAEKENVELTLEALYDVPVQVSVVLGSTMPLSNILKLSRGAVIELERTVGEPIDV
YVNNKKVAKGEIVIVDEKIGVTLTEVVVNEKDFQSA

>gene_1618|GeneMark.hmm|306_aa|-|2573|3493 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
VSKKHKKFEFEDLPKANVVNSNTHAKKTEADELINDAVTGHLNKIVDDKKEDSDPDDDDSD
SGGSNLAECTNPAGENAAQTPLPATGIQAPSPQLDGAASAPGTGAGAPSGASEGVASGTG
AGGSAAQPAAEGAPQEPSTAQAEPVQGAAEQTAPEGAGTAAPQVGVDFAKLLEEKLSAIL
PEVDIGAQIAKASAESSIVKLLHLILPANFEEIIVNGLLEKLLKFFYKEGSITLTIHPD
RYDFCTKALQAEGIKDRFKDSFTIHKDDTLGTDDCKLEWGETKLEYNQEQLASEIDRIIE
QLKSAT

>gene_1619|GeneMark.hmm|339_aa|-|3509|4528 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MGIEVKDIAKLTATQKVAIVLLSLSDNATRIFSLMSEEEITDISHAMSNLGSVAPEAVD
SVMDKLSTD MAGDSTFFGNLDNTERLLQKILDKDRVDALIDEIRGPQGKNTWEKLANVNE
ELLALYFRNEHPQTAALVLSKIAPDHAAKVLSNLPDSFAFEIISRILSMGSVKKEVLERV
EKILRAEFISSVGKTQKYDSIERLVGIFGNLDRSTEVKFM TMLESNLPEAATKIKDMMFT
FDDLKIDSKGIQRLLRDVEKSRLTLALKGASDELKMMVFSSMSQRAAKIIEEDIMSLGS
VRMKDVDAARFDVVSVAKGLIENGEIDVSLDNEEEEFVT

>gene_1620|GeneMark.hmm|544_aa|-|4528|6162 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MQVLIQFLKEMSPAKLAAIAVTILASIIIMFILFLSKVGEDEFVLYTDLDLQDSAKIAED
LDTRKIIYKAMFDGSTIKVHKSEVASTRLALAQSGLPNAGSIVGYEIFDKEDSIGATNFS

QNVKLIRALEGELSRTITSFDQVSRARVHLVMPQREIFSKERLEPKASVVLKFRGGRRLS
KSGIDAISHLVTVSVPGLEMKNITIVDTKGKPLKIGSSEENMDFASSKNEEMRIGSENRL
RGMIEELLSHSFSGKVKKAQVSLEMNFDREVVTNSEIYDPEGAVIRSVQSVDEREKTPVSS
GGGGDVSVANNIPGGDSGGGGAGGNFATTEKSDQTTNYESKTIKHNHISESGVVTKMSIG
ILVDGNYTTDPETQEVSYSDRSKEDLDKIVSLVKVATGFDDDRGDKIEVINIRFSSNLEP
FDDDEVDWVMEHLPNLFQVLIFAILVFLVLITVIKPVALKAFEVKNQADMDSIIDAAAG
GIPGEGGVSGGVVAVSADGTPVEGAASETVPVKISPVTKINELADSNPEDLVSVLRKWL
NEDH

>gene_1621|GeneMark.hmm|118_aa|-|6243|6599 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MSDEIKEYLEPGKKNLILYMLYLCGVLPVLLPIVGGVFAYANQNNEDIWKSHYIFAFR
SAVLGVLGMLSMITAFIFIGVIFYMVVVIWFVVRISILALQYLFEGKAHPNPMSYWIW

>gene_1622|GeneMark.hmm|888_aa|-|6609|9275 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MSINSESKYAKELELDGQSYHVFDIRQAARDSDFDLGLSPYSLRVLFENVVRNGAREKEM
GAFKTWLKKNSSQDEISFSPARVLMQDFTGVPVPAIVDLASMRGAMQTLGDSPSKINPVIPV
DLVIDHSVQVDSYGNKGSFNKNVEKELERNGERYKFLKWGQSSFSNFKVIPPVGTGICHQV
NLEYLAQVVFIDEKDGKKTAYPDTLVGTDSTTMMVNALCVLWGVGGIEAEAAMLGQSLP
MILPEVVGFKMVGSMGSGITATDLVLTVTQMLRAKGVVVGKFEFFGEGVKNLSLADRATI
SNMAPEYGATCGFFPVDEETLKYLRRLTARDEHKVKLVEEYTKIQGLWDDNTPEYSDVLE
LDISTLEPSLAGPKRPQDRVALSDMQNNFKEELPGFAGTGADISAKHKVSTGEFAIGHGD
VVIAAITSCTNTSNPSVMIAAGLVAQKACELGINVKPWVKTSLAPGSKIVTEYLNKSNLG
QYLDKLGFNLVGYGCTTCIGNSGPLDNIIDEVIREKLVVASVLSGNRNFEGRVHHPHVMA
NYLASPPLVVAYALAGTLNIDLKDPGQSESGVDVYLKDIWPSREEIQYVEDCVDSQM
FAEKYKDVFKGDEHWSAIETSEGETYDWQESSTYIQNPPYFDNIDKPPLPLENVNARIL
AMFGDSITTDHISPAGVISHGGAAAKFLISEGVSVDGDFNSYGSRRGNHKVMMRGTFANVR
IKNQLCEGVEGGVTINHLGSKQETIYDAAMDYRANAVPLVIFAGKEYGMGSSRDWAAKGT
NLLGVKAVIAESFERIHRSNLVSMGVLPIAFNSGTSWKSLLNLKGDEEITIMGMSDDITPY
QPLTCVIKRNKSDNNETINVTLQIYTANEVGYIKHGSILGAVIKTLTN

>gene_1623|GeneMark.hmm|199_aa|+|9450|10049 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
LGNREVFKDLSLFLPSSIIYIKGANGSGKTSLMRMLAGIQTPSSGSITFDREALPISML
EKPYCTYIGHKVGIKPELTALEHLEFWAKLYDSAELIDAAIYFKLEEIIDKKCYELSAG
MQKRVALARLIASPAKLWLLDEASSNLDSDNRQLLLNLIITHANNGGITFIACHNEPEIK
TAQVLDLAEFLPNLEENKS

>gene_1624|GeneMark.hmm|212_aa|+|10046|10684 >NVVL01000073.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MKSLILQEFRVQDKIYNLIKYSLIFFIFCSLSITLINSYENVQIFGVVFSVICIPLAFIN
LSAGLIKPDIEDGSLEILLAKTPIKIVMAKYIALFTCFCLSFAMLLPLIYIYNIPNTI
FILIAASGFLLSLCAALAVLIASIQGYFRANTNFLSIIMPLVIPSIIILSGIIIQNPDN
LHLLAIMIGINLIVIPPSIYLSGYLVENIYNI

>gene_1625|GeneMark.hmm|110_aa|+|10862|11194 >NVVL01000073.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MVLFFVYGLMGKWLIAIMITALTVTYFIFKGLDEAGVIKGAEDVVFVKVFNDTKSIAQHCTP
LITNLNDFWYCIHPPTYTPSEEEAALRSGALNLIAPENSNDIKDPYAE

>gene_1626|GeneMark.hmm|178_aa|+|11293|11829 >NVVL01000073.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MTDETSSDKPKDTRRDFVTLTASGMTAIGAACAVWPLVDSFNPSADVLALSSIEVNLAP
VEEGQTLVVKWQGKPIFIKHRTEAEIEEAEMTPMKELIDPEADSDRVKPGQSKWLVTIGI
CTHLGCVPIANKGEYDGFPCPCGSHYDTSGRIRKGPAPLNLAVPPYEFISDTKIKIG

>gene_1627|GeneMark.hmm|406_aa|+|11831|13051 >NVVL01000073.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25202, whole genome shotgun sequence
MSTPESNDKQQSGIIAWIDYRLPIFSAMKHLGEYKTPKNLSYWWSLGSIAGIALVIQILT
GIVLAMHYTPHVDHAFDSVEKIMRNVNYGWLIRYMHAVGASMMFFVAVYLHMFRGMYGSY
KAPRELLWHFGLIIFLAMMATAFMGYVLPWGQMSYWGATVITNLFSAIPVVGDSIVTWLW
GGFSVDNPTLNRFFSLHYLLPFVIVGLVLLHIWALHVHGSNNPTGVKLLKKKDMIPFHPY
TIKDFVGFVGYFLIFAYFIFYKPNLLGHPDNYIPANPLVTPAHIVPEWYFLPFYAILRAV
PSKLGGVLLMFGSIIILFFLPWLDKRSKRSATFRPIYKWAFFVVDCLVLGYVGGMPAE
EPLYTISRLGAAYFFHFLIVLPSIARFEKPLPLPHSVEEEDENPH

>gene_1628|GeneMark.hmm|318_aa|+|2|958 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
KHPRINTVTLCEYSEYISFFFKGIFRDYSLITKIHVTSFFIGYYLNFYMKAIKLSFVL
IIFLTTSLFALDSAFASKRRTLVIAGDYWCPYNCHPDSKMPGYLVELATRALHIYKIDIE
YRMMPWTKALKEVKKGNIDAVIGLTD FEGNGLQTTRVALEYTQSSAFTRTDSKWVYDGVR
SLTRKKGIIIGYAQSEEINNYIGMNYITKPDFVMEGGKNAVIDSIANLIDGDIDVCIG
DRRVFNHYIKENGLEPYIREAGKIDKIKHPLYIAFSPKTLHIDQYIKCLEEGLAALKATG
EDDYLRQKYKISRKEHDL

>gene_1629|GeneMark.hmm|181_aa|+|948|1493 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MTYKLLPYRQSTPRVDSTTFLADGCAIIGNVTIKSNSSIWFNTVIRGDVDRISIGSNTNI
QDLVVIHTSRKDGGYVDIGDNVTVGHSALLHACSIEDNAFIGMQSIIMDESIIEHAFIA
AGSLVPAGSIVRSKELWMGRPAKYVRMVTDAELKFMEENARHYVELSKEHQLARDEPLNE
|

>gene_1630|GeneMark.hmm|461_aa|+|1536|2921 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
LGGIQADINTIHLEKVFNLDMNFGLNIYKREIGKMLDLLIGLSAPAELSGTLIEKVTS
EDIRLINLDIVRKNYHELKKAFFYAVSYTAVKANS AEGILELLNEEGASFEIATIEELRK
SIKRGISPERIIFSHPAKDAIEIAESFKIGVNR FASDSQEDIALIAKHAPGSKVMVRIKT
SHEDKNHNSLTGFNERFGVTPAAATNLLRSLKSLGLEPYGVSFHVG TQEEDVNAWDWAIM
RAASIFKELKNEGTELEVLDIGGGFPSRYKSKIPALSEYGEAIHRSINKHFSGALPQKII
IEPGRAISAMAGITFGRVINVKPCEHDDSRIVTLSTGKFSAGL FNVGNGMFFYRKTSSG
KMKNLSGASSKKADIHGKGGASFDRPIEGDDICMPGDLKSGDIVIFTGTGAYSGEMTTNW

CAKSPRRTITLSNNAEMEPLHNTLSAESPTDETAPSPALA

>gene_1631|GeneMark.hmm|308_aa|-|2985|3911 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MSAGRMDENSGILSDAINQPDAILLASLFDAGDGDVEEVKSLDNGANANGVGRGGSTP
LLKATGNRYLNREVSTIQEIVKLLLDHGADPTIADEEGRTPLHEVSVRSARNFQIRKEED
SQKVSDNMQAIQDMATSFIKLGASVNSPDKRSDTPLLEAVSQGSVGLVKMFLENGALVNQ
AGHNGETPLSIASEERHIEVVKLLKAIAYIQVKALHELIPGVTVELLKLTVLTTTPWYI
KPNIDIDISGDLNRYGTPPQETEFRGSSETCSLITDLEEQAGFADNPAATMDTPPLGGLD
DGTDDAVS

>gene_1632|GeneMark.hmm|62_aa|+|4472|4660 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MLYVFIIFAILTTVTLGLVLSMAAGEKFSKKGTKLMSLRVFLQSLLVLSLAIAYLSQ
PL

>gene_1633|GeneMark.hmm|76_aa|-|4775|5005 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
LLSSYFIHFYVFFIANIPAGLSGLIFNLLKSCENPLTYTQMLGLGVVVKFYFNNYGLVF
LPIHKRYAGFRGALIF

>gene_1634|GeneMark.hmm|392_aa|+|5209|6387 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MFRQMPVILALIIIVIIISFGDYIPQALASLLFGISLSIKSLIIFLLPVIIIFSLLYKATIS
LAKDASKIITIFLGVIGSNFLTTLTSLQMIGMWVYGFDISLIMPSKESTLPASDLFLLPS
IIPNYLAMIGGIIAGVASTQMAPNLAINIGAKLERITGWLLQIVTLLIPIFVTGFVVKLQ
YDGVIMQIIKDYTVIFVIIASAQFGYIAFLYFALSFRVVKPAVSSITNMLPAAFSGFSTM
SSAASMPMTIAGTEKNAKDKDIAHLVVPASVNIHLIGDCVAIPCFAFAILKNYDMVQPD
FAYFIFTCYFVLAKFSVAAIPGGGIIIVMLPILEQYLGFAEMLSLITALYILFDPVITSA
NVINGAFAKIDLLLYKKAKYTKKLIHEELG

>gene_1635|GeneMark.hmm|149_aa|+|6384|6833 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MTFKLDKTLEKDSKFVMDLELSQVRLINNSDFPWWILVPRREDIIEITDLEEDDYTKLME
EIRIVAGGVQEEFTPDKLNIALGNVVSQMHFHIIARYQNDELYPKPVWGCKFTNYGDMQ
MQKRIRSLKNTIATRALREDGEIATNSEK

>gene_1636|GeneMark.hmm|393_aa|+|6871|8052 >NVVL01000074.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MIKNLPFLLVISLLTGCEVDISVPSFPDISDYFDISDALQMTIAINFLGFCISSIVYG
PLSDFGRRRVMMVGNFIMLIGAVGCVVATSIIEFLFARFIQIGASTSAVVVFAMIADT
YSADKSAKIIIGTMNSLITVFMSLAPIVGGLINESIGWRGNFFTIAMLSIVSWIMLYFWLP
ETKKHFTPFSTRKILQDYKTLFFDRSFTYASLVPTLTFAGYISFIACASFLYMEAYDLPI
MHYALHQAIIAVFSVVSLSYSGDVSKFLGERNCVIYGMFLTAGSSFMLMVALLSNKSPY
LTTLSMMIYGVGSAISYPVVFARSLEIFPDISGSASSVIMAIRSLMCAAFIALSSYLYAG
KLVSVVALVILLAATIAAFLSSRLLKLISFDNT

>gene_1637|GeneMark.hmm|185_aa|+|8065|8622 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
LRFEINYIFVSFVKKQIVYPDFIPRVFAMTIDIAILLYVWVFITPVLNIATHQVFVYIFQ
DFFLLYSIDMSDAKAVAATIYHPAFSEYVSAPKFLAYFGYLLFVNTVFLGSYFITFWYKF
GATPGKMAMKMKIVDANDYSKPPLCNLVKRFFGYITALIGMWSILFSRRGIALHDKIANT
VVIKS

>gene_1638|GeneMark.hmm|310_aa|+|8767|9699 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MHNVFYSVLPIFLIALLGSVIRRKYLTSDEFWRGLEKLSFYILFPTVLFYSLKVDLTSS
EFFKLTVALIAANLITIMLVYQMKTDYDGVQFTSVFQGATRYNNYIFFAIGAALFGES
GLSIIATISPYLLILTSVTSIMSFTHYVPNSAGKKTLRNNLVLMMKSIIASPIIIASVLG
MSFNFYQIELNIGILNTIHSASSALAIIGILVAGIKLKLKPEHLKQVVLASSVKLILM
PVVTFIALVALDITGPAKSIAILFSCLPSSSSYILSRQLGGDPETMSSIITFTTIFSIL
SLSLLVYILG

>gene_1639|GeneMark.hmm|773_aa|+|9748|12069 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MSDTKSADANTKSAEYIEALEYHQNGQPGKIALKPTKRLQSQKDLALAYSPGVAAPCLEI
QKNPDDIYKYTAKGNTVAVISNGTAVLGLGAIGAAASKPVMMEGKAVLFKKFADIDCFDIE
VDCTDPEEFINIVKHLGHTWGGINLEDIKAPECFIIEAKLKLMDIPVFHDDQHGTAIIT
AAGLINAAFITNREMSEIKIVVNGAGAAAMSCINLAISLGIDKNNVILCDTRGVYIKGRT
EGMNKWKKEKAADTKHRTLEDAMKGAADVFLGLSAKGAVTKEMVASMAPSPIIFAMANPDP
EITPEDIKLVRDDAIIATGRSDYDNQINNVMGFPYIFRGALDVRATCINEEMKIAAAKAI
AALARKPVPGEVYKAYGSGRKSFGADYIIPVFPDRLITTIPVAVAEAAIATGVAKLKNI
DIKKYKAELASRLNPTSTYMHFVYEKIQAELQRVVFAEGEEEEIISAMMMRDENYGT
IIVGRSSKIDPIVESMGEEYNLDNIMVMNAAINKNLTKYIDYLYSKLQRKGYLYRDCARM
VKNDRNVFAACMIACGDADAMVTGITKSYNSFDDICKVIKPEGKRIMGYSIMLSSKH
IIIADNTACELPDAQDLVEITLQTAKAAKSMGFKPRVALLSFSNFGNPHKEKTARVRDAV
SLLDKMDVDFEYDGEMTVDVALNSNLQKIYPCRLTAPANVLIMPGLHSASISTNLEE
GGGIFIGPILNGFEYPVQIIPMGSSANDILRIAFAEAINSKNEKTEEKQV

>gene_1640|GeneMark.hmm|64_aa|+|12041|12235 >NVVL01000074.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25374, whole genome shotgun sequence
MRKPKRNRFERGEDNAGFEEAVNAMIWLIHYKTGEGNESFAIYDVYGCAPIIEGSFNSR
LYRD

>gene_1641|GeneMark.hmm|109_aa|-|1|327 >NVVL01000075.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MGTIMHFNLDTIVITVFLAIITVVGVVAGFGVRTIKDYALGGRNFSTPTLTATITATWIS
GIFFALHTSGIYKDGWVYLVAGVGDVLYLFIIALIISPMAEFFDSCSV

>gene_1642|GeneMark.hmm|53_aa|+|869|1030 >NVVL01000075.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MAKNNIRLVAVLYSDKHRAYIIYFYQFWLKKQFTDLIIVHLSFQRIKLEKIKN

>gene_1643|GeneMark.hmm|137_aa|-|1299|1712 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MYLLDSCAISDFMKGDKNTSEKLSILPSEIYTSTITQMEIQYGLIRRFDHSRYFGILE
DFLSAITVLPFDRSAASHSAKIRKTLDSQGTPIGAYDVLIAGIAMSANLTLVTSNEREFL
RVDGLEIENWRTKKCR

>gene_1644|GeneMark.hmm|77_aa|-|1745|1978 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MNINIYIEEPVGRQLSEYSKKFKRKRNSIIREAIKNWLTNHSTKQWPESILRWDGIEDFP
SIKELRSGLIEPNKKLF

>gene_1645|GeneMark.hmm|175_aa|-|2049|2576 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MKKLASFITLSIIILLSGCYAVETSHEYNRFTWAKSTSKPIYLRFKDTKSKPFYFLLS
RNTKENGYKLVIRWKNKASGDLLFNGNKTTLKFIDKEIILTFKPIKRPKIVSYNMNSGT
HEEEGIFSLSEKEFTRIAYATSVMTTELTGRYNTVMGEFSSRNTKKAFRNFAEKSH

>gene_1646|GeneMark.hmm|80_aa|+|2892|3134 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MFYVYLIRSINFPDQVYVGITEDFKRRLKTHNSGGSVHTAKYRPWDLVVYMGFKNEIKAR
DFEYKLSGSGRAFSKKRLW

>gene_1647|GeneMark.hmm|403_aa|-|3297|4508 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MLILPIMNIIVQKFGGTSVADTARLEKVANIKAELDSGNAVIAVVSAMVGVVNSLISK
NALSPLNSAAHMREYDAALASGEVVTALLALQLQKIGIKAQSLQGWQIPLKTDGTHGNA
QITEASPALLKDMLAEGITPVITGFQGIAPNGAITTLGKGGSDTSAIIAASLEASRCDI
YTDVEGIYTADPRVVHDAKKIGVINIDELYALCINGAKILHPRAALAAKRYGFPIRILSS
FTDNTGTVTQIEKLDMENKIVKAITSNKNLLKVNVEYQPRQLSGILQKLSEESIEIEQIY
NSCERNSSIITNLTDKNKCKLLDSLKSASALKEYSLNSNISTVTMVGYGKSDTKLTWK
IMDVLMNSNDVQVLSVHSSDVTISMLINDADNEKTIKLLHDYCF

>gene_1648|GeneMark.hmm|247_aa|+|4595|5338 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MSEKSSINQHELNFNKTEQEWWDLAGEFKLLHKINPVRIEYISSVIGKQFPLAEANSPF
SDLKILDVGSGLICAPLCKLGAKVTGLDANAHTKASSEHAKRNNLDIEYIHKTAEEH
VKSSPKYDVVLCLEVVEHVANPKEFVLNLSKMOVADGGVLILSTINRTVKSANAIHMAEY
VLGWVVPKQTHDHSKFKPSEFASMLEGSLRLSELKGLSLSMLSQEWHLSDDDIDVNYFAS
FVDDKKL

>gene_1649|GeneMark.hmm|402_aa|-|5438|6646 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MGLTMGNSLVGAASRQIGADNLKSDDLGQSMATGANKRADVVDLFLGNSLRDAEVVLT
ANSTNYSKNMLEITDKYLSTLAGSLQESLQITIGSAGPLSGEKRAILQQLVDDKKTQVGLL
IKTADFDGKSLSGDIKDLGVQVGLASSDKLFLNATDISGGKLWRTSATNLIQAQMKAN
GTAYYATQAEADADAGKNINLLSALQNNNAVGTGATGSGAVAMTDTELATLIDAVRTGNT
SFSSSLNEMAPITLAQIEIANGGDTFADSSIANLAI AIAAGGSRAELEALFGDDVTIDIS

DPALTVNLTVANVFTTALNTIRIEQASIANQGSNIAEADALLATINVTQRAADSYTMT
DYVTTATEYSETIRTITSALSALQAANKIPEAAQELVRSAR

>gene_1650|GeneMark.hmm|79_aa|-|6913|7152 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MSYLIANETQNTLNKLIDEVALSHKPQIIKGRNSAVIISVEDWESIQETWMIVSNQKLS
DSLKINMKTPFEESKELY

>gene_1651|GeneMark.hmm|165_aa|+|7339|7836 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
LGAVYMENKISDIIETISDLGFNLVKVSIHGLGTKIVEILIERQNGERVEVGDCQKISR
DIGALLDVEDVISGKYFLEVSSAGLERPLVKLDDFERFVDREIKICLRVAFNGNLKYKGG
LLGVDGDKVKLQSKNVELSFPYDNIIRKANLVFTDEMFRALLNKKK

>gene_1652|GeneMark.hmm|512_aa|+|7853|9391 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MDNNVAKAEILQIVESVSRERGIPIKANLIEAMEEAVQMAGRKKYGIEHNISAKIDQNTGK
ISLFRVREVVEQAEDTFKQIELEEAMLRPDVQLGEEILEPLPPIDLGRVAAQAQAKQVII
HKVGEVERIRQYEDYKERKGDILNGVVKISIEFGHIIVDLSRAEGLRRNQQRGEVFNVG
DRIKAYVQDVRREPKGSQIFLSRTDDNFLKLFEMEVEPEIYDHVIEIRAIAREPGSKAKI
AVFSSDRSIDPVGSCVGVGRARVKSITNELAGEKIDVINWDDNVAQFVINCMTPAEISKI
VFDETQYKVETIVAEDQLSLAIGRRGQNVRLASKITGWRIDVMTEQESTRRSEEFARTT
ELLVSTLEVEEMVAQLLSAEGYGSIEQIAAVEDSVLSAIDGLSEELVAEIKNRAITYIEA
KDEKVIEELEKLGVDQEIIDALDLPAEYLLKLAEYGVKTIEDLGEMSVHEFRIRVPSVI
SKEDIEALIAFAKEQDQGENQGDQGGQEDASN

>gene_1653|GeneMark.hmm|377_aa|+|9487|10617 >NVVL01000075.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25997, whole genome shotgun sequence
MTDNQDTKKIKKLTGKPKISLRNKSAYPKRSAAAPGVVVVEVKRGRVSADGGMGIKDAK
SLEPDQAQLNRMLDTLKKSNDDAGPDKASISTLSKLAEMNQVPEPQADTKEDVAENTGSD
DAKKTGKDGEHAVKGGKPAAGTDKTSCHKKEFTKQPPSVVAPAKLNEKEQEAKEAPSKP
KIIEPKLLKKTDIINMLDEASGAAPFKTRSLASIRRARSKDRRRTGTVQAQKVYREVIL
PEEITVGELAIRMTERASDVITRELMKLGVMANNAQFIDADTAELIITSFGHKVKRVKDS
IEDVLTKEYEDKPEDLKPRAPIVTVMGHVDHGKTSLLDALKSTDMAAAEAGGITQHIGAYS
VTMSDDRMITFIDTPGH

>gene_1654|GeneMark.hmm|96_aa|+|3|293 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
KDVLLLEEDIFKVRMLIFDVENIKYGELENLIVNCQFAIYEFCEWEDANNITLLGEFSER
KEYQYELLNISRYFDDIENKSKIIENVIGARSGT

>gene_1655|GeneMark.hmm|437_aa|+|543|1856 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MSKISYEKLGDIYALYKPVKSRFVWCRVRVDNHPAIAKEIRKSLKTEDKNRAIYEAQKIAL
ETEIKIKENIDLMTSKPKAWKIAEKAKIRLERAKPAKPTYPGYIRILEKEIIPFLKELDK
NITEINRYTVEDFFDKYEKNSKTQVNMSKTCFKRVFEGLREQWIEEKNIPKMPKVEIKE

TEEKRNFNEEELATLHKRIDEYIGNSRKSVSKENRFLKCMMLFLEASGARTGEECKIK
WDDLEVIKKDGKAVMCKISKGKTKGKGRKIILDGQAIEAIELVFNYQLKGIEKIEKVV
KTPFFEYDYSDNRIDFFDFIDEAKKKLSGFHIFERKDRKEIDFSKTFELYIKWLREEEL
IGNKNHTLYSFRHTFITSKLMEKEEKRRWTAEQVAKHCGNSLQMIWDYLLHLQAEDTIFN
FDYYIELRNKTEKITGA

>gene_1656|GeneMark.hmm|122_aa|-|1889|2257 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MRRNMSSYLKKSLLAEQLQKELEELSKNEDAKKEKQFFEDLKSVLDEHEYSFHQLHSMLS
DVLEFEKPTKKTTRKSAWQGLEIEYEGSIYKVN SIGRQPAQTKELLSIEMTPTEFIERF
KK

>gene_1657|GeneMark.hmm|76_aa|+|2316|2546 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MEDLQEEIERTNKILVLMQLKLNINMNLINNVLEYPEFGIKTNEKETKEERLKRFLSFI
DELENENGKKTNRPTK

>gene_1658|GeneMark.hmm|397_aa|-|2669|3862 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MAINIILGTTGDGKSYTAVDKWIPTITKQKRKVITNIPLHIDELKKSFPDINFDELLEI
RQGTNGEAYDAFQTADDFQDENWVNDKGQKPLIVVDEAHFCLGNDRPARELKPIEDFFAL
HRQMGYDILLTQTQKFSRRTLGLVKHFYHCSKLSVVGQSNRYALRIRQDGSKSSIIQ
EEIRKYDPEIYKFKSHAKSDGEVQEAVDTNVKSFHKHPVYGIAPFFIFLWWKGWL
NFNIFSATTKTSENTKNLERTQNSPILSNQSTVSSQEVVQKNKQIKALNGEVEELKNHNK
ELAKALEKIQSHPFTASNIKIGSSWMPNSQSKFVFS AIVEGPNGNFSTNSKSLKKIGYD
IEYDSCLYRWTFKEFNGYWTCGVSKDQKRLSENMKL

>gene_1659|GeneMark.hmm|103_aa|-|3886|4197 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MFQDLMDWFEQVFDDVALTFFAMLSDLFSFLFDVITKAFLVLDLALGLDFMNPLQYIS
MIPDSTLNMMGVLGISEAMSIISATGIKLLMQMIPFVGLGSK

>gene_1660|GeneMark.hmm|475_aa|-|4213|5640 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MVRIISFLSLILFSSFSFAEINRTDYENIDITFSSGNTSLDQFNFNDPMIACSVALEY
THPQNEYSGASSINWALVIHREYDDQPDSWDLGCNYYNTRRGYSSSMYVRSNEFPQQDGK
FTSSFDSSNYIIFESAGSVSTEPEIPETD TDGDGIPNIEDLDIDGDGIPNEQDDDVDGDG
VPNYIDNTPYGEYTEVPGYDDMDGDGIPDSTDNDIDGDGIPNYIDSDPLSDINKD TDGDG
IPDNQDLIDDDGFINEEDDDIDGDGILNGEDNDIDGDGTLNNQDSDIDGDGIPNYQDDD
IDSDGIPNYIDNSPNGWNVNSPEDGPTYCLIGGFYMGRGDCSNYATDENG DGEYTTDEVN
DPDSLIPDQVPIDSQPDSPAILETGYWTPYDPGFSGVLLDFKKEIEKSKFMEFLDSFRF
TNDGTVPVFTFNFDIGIHDFGIMSIDPDQFLPGVFGFLKVIVLISATLFAFRIVF

>gene_1661|GeneMark.hmm|108_aa|-|5634|5960 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MKRAILFFIIFAVGFAVGKARAFPVYHGYTDDPLTQKEYCEIYYPKSTVAKSEKDFLEKY
FIDYSNIPASPLYLQDMTIAFELPCFPEKTSDDLQERIKLYEKGETW

>gene_1662|GeneMark.hmm|79_aa|-|6193|6432 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MNSVKEKMLNKYNQAGIVAGSLILANSAHATETSNVEQLFNSVDMGGVATAVVTIGGTVL
GIFLAYKGITLVKRAISKA

>gene_1663|GeneMark.hmm|78_aa|-|6480|6716 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MLCVELDVNNTLVANSQTVENCTTFLLEMEKQDYNILVQPLTISPEQIGFVFAWGFSAVLT
FWFFGYVVGVIKSVIRQA

>gene_1664|GeneMark.hmm|116_aa|-|6716|7066 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MELWARSPTFPPLTNLINWSIIMKYFIQGRFRGLVEQKRGKDKKEYTFYVVLESEQNITL
IKQIQYNPEKFAQIDEDSFKGQTVLCPVYIDHVHKKSDSGDVKTFENIKLIDEIKVV

>gene_1665|GeneMark.hmm|180_aa|+|7660|8202 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MNNRYTVYDKLTGKEVEAKDIEFKASKEKIRVPKEAIMLSQRDFEQLLEMRDKDDKLVFQ
GNDLRVLFKIIFKLDNFENYVGINQKKLASVLRNLPSSVSRSLKKIKKIGVIEESDEESIH
TYRRLNPQFGWKGKGETWAIELKKRQVKKEVDYEKEKHEQREIDDILDNAEEVDSSLYE

>gene_1666|GeneMark.hmm|224_aa|+|8310|8984 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MKINKINSESIDSLRTISCLIVVLSHVYELSTNNYNNLVNELISFTAVAVFFYLSGYVNY
ISYKNKNNPLIFWKERIKRIYPAYFLAVLLSFTLAYILDIEKLSYLSNYIFLQSWATETI
ITNQALWSLAYEMFLYLIFPAFFVVRNKAFFWGFLAICVVLIVFHKINALILLCLFLAGMI
KARKKKEFKEFYFFPKIGKWTEIYIFHFPALFMLFELYSRFIA

>gene_1667|GeneMark.hmm|345_aa|-|8952|9989 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MFIGNCKLPKLLYNNIEKNNKRRSMKRFVSNFIKYYKTKVDVLSAHCERKIEDTENVID
KKLTPLNQYFFYGKNIKKNFNKFEAYKKILGKNPRSDFNLCYLEGVLAFSNEKFQKSYNE
NPLDFERALTESLERISKTFGFTGLGWSLHVDEGHKQEDGTIVLNPHAHLSFFNYDFENR
KSTFKKLLKDFSKMQDICGEVFKELGFERGISKEITKKKHLEKSEFVAQKKKENLKHVK
ELERRNKSLEQKQSKLLELEYDLTSDPKPRPKFLKRFKVQFLSFLSKKQKEIKHWDAYQ
AKMIEQRLLKEEIQKETIKQSYSIKMSDDRKSKSRYKPTIKLK

>gene_1668|GeneMark.hmm|143_aa|+|10090|10521 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
LIYKIYVINLNYKNNKGALMIDLIFILITIIIIIMMFLLLTFPKYYKIEEECEKNARK
NILIEEVKRLRFKDYDLNQRISLFCLEYSKQFNIFLEECRKNKIFPEDITEKMTTREFAT
MLRHSPWYLVKEHKSIIKNEEE

>gene_1669|GeneMark.hmm|31_aa|+|10523|10615 >NVVL01000076.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_25999, whole genome shotgun sequence
MVYLFEGYNRDFRNEKLNDEFEKMYKENFNF

>gene_1670|GeneMark.hmm|361_aa|-|114|1199 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MPIDLKIRNIIKEVGHKIDDMREALTTNDSYRSVQNLGEGGDFITAPEISQLFGEV
IALWAIKWKELGSPSSFALVELGGGQKLMRDFLRTAKLVPEFFKAAKICLFEVNPFI
KKQQQHLDQYDKQTTWLSDLKNLPKLPTILIANEFFDALPIKQYLKSKDNWFEQVLVIDP
SDGMVKKHHKLELHKTGQLLDHTSAQDGAILEESVDAFNMMRLIAKNLSKYGGASLII
DYGVDIDVNRTRKQYNATLQAIKNHKEYESIATMGEADLTAHVDFNALKKVSTEQGLEK
QTIFSQGEFLAKYGIDLRLDSLKQKLPKSDSEVLERQVYRLTAKSQMGELFKVLEVFNSA
V

>gene_1671|GeneMark.hmm|262_aa|-|1190|1978 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MLDFPNIDPVIISFGTLAVTWYSISYVGGVLLGWYYALMLVKTTKTPLTKQHVDDFITWV
IIGIIIIGGRLGYVIFYDPAFWAHPVDIFKTYEGGMSFHGGAAGFIAAAIFYARYNRVSI
FATLDFATTAPIGLLLGRLANFINGELYGRVTDVPWSFIFPGSDGNPRHPSQLYEAALE
GGVLLFILMIAALRFNALERRGVISGLFLVFYSMFRIIAEFFREPDHIGFLAGGFTMGQ
VLCIPMLFAGVILIFYSKKQCQ

>gene_1672|GeneMark.hmm|406_aa|-|2004|3224 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MFDYNAAFESQIQQIKNEGRYREFVGLQRIAGSFPKAYWGEDKKEIIMWCTNDYLGMSQH
PKVLKAATQGILENGVSGGTRNIGGNNYAAMDLEKEVADLHGSEAALVFTSGYISNDAT
LTTAKIMPGLVFLSDESNHASMISGMKNSRAEKHIYRHLDMEHLEEILKTIDINRPKII
AFESAYSMNGLISPIDKICELAKKYNAMTYIDEVHSVGLYGDRGAGIANMMGVEDKIDII
QGTFKAYGVIGGYIAGNSAIVDAVRLTASGFITTSLPPAVTAAATASIRHLKDS DVER
EKHHDSVENVKNYFKEAGIEFLKNQTHIIPIIIIGDPKLTAKASKMLVEEHNIFVQHINYP
TVPKGTERRITPTPAHTKQMAQQLTEALIDVFAKLGISLKNKEAA

>gene_1673|GeneMark.hmm|264_aa|-|3325|4119 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MVNHDGVEHSGYMSFMVLVSIFPFFIFILALTSFLGASELGAKFIEFALENLPEQSIESI
RARISELIKAPPQELMTLAFGSIWTSSSFVECLRTLNRVYEIKSPPNYIFRRLSIIQ
FLAISLVISLAMLVLLIPIGLAKLPQFVLLAKGYGETLNLARYALVFLSLFSLVCSLYY
IIPNTKLRFEVVPGAFLTIVLWTSSGYLLSKYIGHYHQLNVVYGSIGSIIITLIFFYIV
NMIFIIGAENYLTRRGRKKSSIR

>gene_1674|GeneMark.hmm|123_aa|+|4446|4817 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MARKNEYIQEVDKFGVEIYSLRLAKGLSRQQLAKNIGVTHHQLQKYEKGTNRISVGRLV
LIARALGKEIAFFYEGLDSNHKEPVTTKHQRMCIIEVSRNFMKINSADHQS AVNTLVKSL
KVA

>gene_1675|GeneMark.hmm|708_aa|-|4926|7052 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
LLTGKCRYMFFGVNIDLIIVVAFLTIVTLVIGLGQGGRVKTIKDIALGGRNFSTAALVATI

VATWASASGFFIDLTEVYSHGVLFVVASLCMGIQLLIMAYILVPRMGEFLGSTSVAESMG
DLYGKKVRIITAIAGSIGSMGLIAVQFKAFGNMVSYSYFSDIPSIVAVIISGMVVTFYSAMG
GIRAVTVTDILQLFTFCFVLPVVGIMIWNQLYFTGFSIDTALESPKFNIQRALNIGNPKL
WEILPLMIYFTIPTMMPASFQRISMARTLEQIKKATIISA AVFATILLVMAWIPFLFYV
NPDMESSQLFGFLIDNYTYTGLKGLLIIGIIAMSMSTADSNMNISAVMISHDICNVVAIK
KNNELVLAKVFSLLGIGGIILALKGRDLSIVLSANSFYMTVVTVPLLSILGFRSSTN
SVLIGMGAGFCTVVVWKIFSIAKADTIICGMLANIIFLFGSHYLLGSEGGWVGKDRKYLD
AQELIRKKNKGSFLRWFQEFNFFDLCRKYSKDDLTYTGFYCICTITMYSTKVVELL
SPNGQIVLAIYQIMMVTGTMMAMYPIWPLSVPKIIRVQIWWNP AIFYMLAFFSTFFV
LISKFGQLQFVIFTVNNILILLAGWRLSIPMIIGGFYAGIEFFKYYREIDSFDIVVGGSP
QFIFMYSLVLIGALMVIFLKPQEHLEHTEDKAPAQTKSEPEKLRPQA

>gene_1676|GeneMark.hmm|256_aa|-|7391|8161 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MDKSIVAEIKEITTEAGAMAVNLRNKGLEISLKEDSSPVTNADKAISSFIFDRLTSIAPD
IPVICEERPPCAVDTSKQFWLIDPIDGTRSFIDNTDNFTVNIALIDNKSAAYGFIYQPTT
GLLYFTDAEQNFCVEENGIKTIRPAHGSEGLVAVVSSHHLNEKTESFLASNSFSEIVSIP
SSIKLCMLAEGRVDIYPKFGTTMEWDIAAGDALIRAAGGKVCTLSGEIMQYAKKDFRNNH
FIAMGKRWNKGVGESC

>gene_1677|GeneMark.hmm|296_aa|-|8172|9062 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MGLLVNKEAIIIDGKQVSEQILADLKLKIDEDKRQSKPPAMLAILVGNDPASAIYVQN
KIKAAARVGVIEVILKEFDDIPEDVLLKEIDALNLDNDVSGIIVQIPLPAHISKAKILTA
INPEKDVDGFHPINVGRLYSPHKNGFVPCTARGCLALIKHCTNALAGLNVVVVGSRNIVG
RPLAALLLKEDCTVTICHSRTKNLAAITSKADIVISAIGKPAFLTTEYFNKDAIVIDVGI
SRVMGEGGKTRLSGDVDFQNVQKLVKYITPVPGGVGPMTVAYLLVNTYAAKIGLNS

>gene_1678|GeneMark.hmm|423_aa|-|9097|10368 >NVVL01000077.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26108, whole genome shotgun sequence
MDSIIIRGGNPLVGEIFISGAKNASLPIMAASLLTEQTLELTNIPKLSDIVTMRSLLENH
GTEIDSAEQPDESLTLLRSKASITSFLAPYDIVRKMRSIWWLAPLLARFGQAKVSLPGG
CAIGARQVDLHIAAMEAMGASIEIKEGYIHAEVKGRKLGCHFAFAKSSVGATVSAVLA AV
LADGETHLSNCAREPEIVDLCYCLNQMGAIEITGIGTGELKIGKEKLSGTSYRILPDRIE
AGTYMIAAAAATRGDVKIRGIDYELVENLALRMKEAGIEVTPRDGYIHVKHKGEIKAVNIS
TQPYPGFSTDLQAQFMSLMTLSVGTSSVSENFENRFMHVPELCRMGADITIRDHSAVVQ
GVDALTGAVVMASDLRASVSLVISGLCAKGETTIRRVYHLDRGYQSLEKKLANCGADILR
VAE

>gene_1679|GeneMark.hmm|1539_aa|-|3|4619 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
MRKARQAGALGAEIKDHGVTLTNASGQNMKIHAVFWLTMRIADRTITEPVIVVTHMSGDM
ILGQNVIDVHGLTFDHALSQFAFAKDPSSNPTDWATATVRTSRICSIKGSEALKVQVHLF
DDSTGLRMKGGVNFVADISGVPIVAKTNHNGVALLFVSNTDDGEVTIPRGTTIGTAEALD
RYYMDASPVSVDTADAVIHAVAVQPKSRRKPARPTKTADGGLQASASSKSQKPSQGDST
PKLSAAKRILINEVVIRSKIPQQYRQRYTALLSKYSIISESPHDLGHCAAVVHDIKLRS

DEPVYTKQYTLPEQEMRFIKDNVKDWLRTGVIERSTSKFNSAIFCVRKKEGQGLRVVLDY
RKLNANSLPDRYSIKSADALIRDIGEAGGKVFSTIDLRSQFWQMGLAEQARHMTAFTLLG
EGQFQWKRGMGLSGCPSFSRLIEIVTRGLENVVYIDDLTFSKTHEEHLVHLEGLLM
RLRKHNLKINIAKCSFGTFETAYLGHTLTPEGVRPGIDKAKAIRDCVPPETPKQLKSFLG
VCNYFRNYLGHFARKAAPLYKLTRGDSVWKKGPLPPKAKRAFQLLQKEIAERPVLAFPN
KGRFHLYIDGALGGESKEGGLGAVLMQEQPDGQMKPIGFASRQLQEHEKNYSAFLVELAA
ATFAIDFFQIYLPNTFTLYSDHKPMTNLSKVHMKTLNRLQLMMTEFHFDIKWVRGEDNI
VADFLSRNAIAAINAVDTAPSTIAKAQAEDGPIAAVRRRAVVTGDWREVGPPQWKLKESLH
LKDDILVIELRLRQGFSSQSKWHVVLPRALHKEVMEMAHASVIGGHSGLLKTGERIRADF
WWPNMLEDVATFLKECKVCQEFSDKNRPLQPPQNFPLAPGPNVRVHVDLHGPFTDEKGD
KNMIVVLTDAFTKQVLAISHKSAETASAIETWYKFGVMQTLVSDGGREFCNSLQD
TLCDLLKIERKTTSPYWRANGQVETFNKTMHYLRTVLKEADKSPVDWRMYLGPLAFSY
NTAVNRAIKMSPFRALFGYPDRAPLWDDMDILLEKNVKSVMKGDADYLHDFAEVQKTAR
RLAYTNQHDRDLRAKTVAQAEEGKTADVYHEGQAVWVKVMQHTGKNPKLQAKWETAEI
IKRVSNTTFSVQRHNRKRGRFVTLNTRYIKPRVGADVHTPDIPAKPETTEDIDSVDSE
EVPASNVPTEQSSLVAAIVQAETHKYLSRPELIEREINKEVSDIFAHWWHWQKLAGMK
QPPFQLSFSRRGALTAPPGFPAAPGFVQPLPATPPVSRAPSEADQEEGSHTPVNSDWSSA
PSSNNSSTTDLVLDLVERANRIKHNAVRAERGEPVSFSRSSSDTDISSDNAATTPKGYSSP
DSDEDFDLFFPTQDREPVLRSESRRAANQADAPDTPEFQLAASSPPEGAAGHSASGP
TTRTPSPQPSTSAAVPRTPPPAHTFLSYPLRDKLEQERLSLGRVTVNAFTHNKNKAIIP
QCMQFFGPAPLQVRKLGRQAEAAWHECQLRQSFDPVFPP

>gene_1680|GeneMark.hmm|363_aa|-|4895|5986 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
MAETIFKQESLFGTDAKKSDLSAEFLDRVTAHLNTIEDITQIQRIDAITARLSQARL
WWKKSANKSRTAADYRLLQTDWQAWVQCFTKQYCKGTSISDATLNWTGFKALSGESSTTF
LIRVMDAAYDFANFNKQEEEEENYPAAHFQLQHTDEEDEEDDANVTHVRAAITGLNHARRT
LLTRAIHDHAQRYRDTFMTRYTVMMILKVTINGMNEPRLRPILLKALLETHLIGRVIDDL
LEAENTLPRKGSASLHAIDVSDTEDQEEENLDAVKAKTNKKKKKGAPNPKPKTKPKADA
AKKDKVCTFCDKTGHLEADCFTRRHAMANAKAATKTSKDAKPASFEHADAIATGQQHFHS
GNY

>gene_1681|GeneMark.hmm|47_aa|+|6326|6469 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
MSEEMNEKLSEQISENFAVFSFLIKNFVPRFGWKVPGERNRRKLVEL

>gene_1682|GeneMark.hmm|389_aa|-|7460|8629 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
MQREGDEDIPEYSFKAVFREGDRIDLQAQITRSTITTNRMTQGFHQMSHALCEVQRATR
ANKLIAILGTNNEYALFDLHGKGSKVISAGTSAYVAKCVPVEATRADYAECTEEVPVKIG
NKTFFADAVNWIIRELPTVIPCSEVMMPMRWFINDRWLCSTPTTQLCAAPSRLNVSSFELT
NNNDYAIQLGRGLFTHAQLQQRHRRFMANLESRRAAIAHVTLAAIFHADDSGALGIPISKE
ALKKCLKHDIASSYFPMIAWLGWSYSYIYGAIAIVVALSVVAGALSRAFILYRERGCWWI
FGAVSAAVFSIIRFQFQIVRTRDLVVNNLDTTVNTTAYQEIRTENAAFRKDIERLALQV
DTLHTQETSHKLYPSPVLPQDFHKPSD

>gene_1683|GeneMark.hmm|61_aa|+|8624|8809 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
LHASDESVNLGTEALEAADRDGIRENETRSLFGVVVGHEEDGTVHGVAPGPMEQSGPEVD
L

>gene_1684|GeneMark.hmm|159_aa|+|8834|9313 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
LRCPDECANRIVLSDPVVVADDQVVEGEGEQRALGLGEVSGPVDGVEGEVKCCLLVGVVE
LAAGRDEGCCCAGAAEEAAVRVVLVALRLAGTRREDLPFEGEEVLPVNPAAVSWIDGNVP
LPHHSFATVVERREAAAANDLGNRYPALESGDWKCRVCV

>gene_1685|GeneMark.hmm|127_aa|-|9814|10197 >NVVL01000078.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26184, whole genome shotgun sequence
PATTS AHLPLVPAKGQTRAGTALARDQGHERVHTQQEQSHHSAMHAVLRTSSVAGKAAGK
TGRSSLARVPTATVLPGRLSAGAQQTRSDEADGVQAHTL NESATSAAINSLINGVISSK
LLGYPFT

>gene_1686|GeneMark.hmm|270_aa|-|52|864 >NVVL01000079.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MVKLSGFIIAKNEATRITKAINSIKNIVEEVIVIDSGSTDDTVKIAEKL GARVVYNEWKG
YVLQKSFGESLCKNDWILNIDADEEFTQKLQDEIAGIFAERQDDCHAYEVNFVVMHRND
KKLRFLAPANRFIRVYNRNYCSFSNVKETTTHDAVMFNKDTPKDSYKLGAAAYHRSGTSI
TQLVAKANFYSSEQAKDWKLGKRP SNFRIALELPLCFLKAFFIRRHCVFGFDGFVDSMV
FAFARFIRIAKTREIYRNEESEANTGFRKT

>gene_1687|GeneMark.hmm|284_aa|+|1192|2046 >NVVL01000079.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MPVLMQTTIQNPISCYGIGVHSGKNTQITLKPAKRDTGIVFVRTDVSSVDNEIYASYENV
FDTSLSTSIKNNANTQVHTIEHLMAAIWGCISNLIVEIDGAEVPIMDGSSKPFVFMIEC
SGIQKSNVPQKRLKLLKEIDVSDNGCEIVGVPDCLSIDLTIDFASPAIGKQQHIFTEQD
GFKDEIANSRTFGFLHELDYLSKGLAKGASLDNAIGIDKDVILNHDGLRHQNEFARHKT
LDQLGDLFTAGNLIADLKSFKTSHYLNNQFLHKVFS DPYSYKWI

>gene_1688|GeneMark.hmm|135_aa|+|2305|2712 >NVVL01000079.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MPDYINIILLIILGFAALFMIRKMLTHQKPKHIVPKDPASQDLYEQQKHQGD EEEIISME
EKIELSWEFLLGIVRKIITIFSPEDKEQLHQAGGVLNKNGMQYQHVDVNQEVIMMDNLSKV
SGVQKQKNDSDGRSR

>gene_1689|GeneMark.hmm|202_aa|+|2808|3416 >NVVL01000079.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MTKIKNSKAMIVILSAPSGGGKSSIAQKLLAQDENLSLSISVTTRAPRASESDGVDYFFK
TREEFQNM MNADMMLESAEYGNLYGTPVQHVESTLAQGTDLFDIDSQGAYQIAEKMKD
RIVSIFIPPSIEALARLESRAQDDKATIDKRMKLAKDEMEHAKNYDYMVVNDDFNQAV
TEIQQIIHTQRKQRDYKQRVSK

>gene_1690|GeneMark.hmm|412_aa|+|3413|4651 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MKKPKKRIAGAFGLTIVEYYDYSLYGFSAGILAEKFFPTMSKIESLTYVFAIYAISYLAK
PFGSIFFSHIGDFYGRKISLRITMIGIAFPPTLTIGLLPDYHSIGNLGAYILVICRFLQGF
FVAGEYDGAIVIYVVEHIGKHHYAASATARSTGVAGLLLGAATNFFNSSIFPEWCWRIP
FLLSVPLTIVTIYRKFLEETPEFMRSKAKNTEFSSTLSFIKKRWRTLLMVILLSGGFGV
TYQVSIIFMKQYLPMVVPYGTIITTFVIMVLGFGGLAMPVAGILADRFGCERLVKYSLL
STLVASGLLIISINHLINLTLISCLMLAVSVAPFNALAHGVIIKAFKPNERYRGVSLGH
TTGSMLMSGTANYVCLLFMQKFGFNLFPIFYIGFFAIVTFVTVMFLFTRTYKA

>gene_1691|GeneMark.hmm|98_aa|-|4699|4995 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MSFKLLFTKEAASNLEALENDPSKKKRLKAVRKSGLYLETNPRHPSLNTHEYNSLSRDLR
VKIFEAYAENKTPQAYRIFWHYGLGKSEITIIAITPHP

>gene_1692|GeneMark.hmm|89_aa|-|4996|5265 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MRTQKILRPDAKGRICLGLLAKGISGYEAVINKANKEITLKPYTEIPLSENWLFKNEEAR
DSIKRGLKQSADNKTIYKGSFAKYLDEDN

>gene_1693|GeneMark.hmm|506_aa|+|5488|7008 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MKFFRFFIIIFLILNSFTIFASDNDIECADSTLKQKLLSGWYLWEPYQFYKITPGGA AVL
TGMDVQLVKSLAKRVGVRIEYEEISWNQHQQNIREGTLDIASGATYTKERA EYAYFSDPY
RFEENSLFVLRHSEKNLSFETILEFLAQIRLQNFRLGITKGFYSDPQINL FISDKLNRD
IYQYND DVEAIESLLKGEIDGVISDRVVGAA TILNHKATSLIREVELNIKTPISLMFSK
KTVPVRLVNEFNKEIKRFSEGDERNNIVKTYLPVMLMQTIESNWFYIIGVIGTIAFAIS
GVAIAAKDN TTFGLTFLFAMLPVGGGIMRDIMINRDEVGIFLTPSYMYIIIVLVGFA
TIRLLEYYNQKANEDDVIIRFDNLLILGDALGQASFIVTGVSIAIMSRIEPIILWGPFF
AFLTANGGGILRDLLRKKRGIICLNGEINAEISVFWGVVFSVYLDVTSHDPDSSGIRTAV
IIATSAFITRLVTYYLKVPNLKFRK

>gene_1694|GeneMark.hmm|538_aa|+|7063|8679 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
VAKKRHKNCNRFDRGNMLVKKRHKNCFNRFCDGNMLVKKRRHKSYYRLCDIKINFNMQD
PFFMGREYELKSLYDLTQKKSASLVVLRGRRRIGKSR LAKEFATKYKPVKCRFISFAGLV
PTNDDAATQKEEFARQLAKNLNLPPIKADDWGDIFTHLARETQSGRVVILFDEISWMGSK
DPSFLGKLKNAWDLEFKNNSNLILICGSVSSWIEENILKSTGFMGRSLVLDLQELKLD
ESNQFLSKIGFCDSVYERFKVLSVTGGVPRYLEEINPSKLADENIKDLCKSSGILFREF
NDIFLDIFARRSKTYEKITRTLVTGRKELKDIKAIGTQKSGHLSEYLSDLVKSGFIKRD
YVWRIKDNKESKLSYRLSDNYLRFYLYKIEPNKSKIENGHFDNKALSTLPAFDSIMGLQ
FENLVLANRQLVLQKLNISPEDVVDHPYFQRPQQRVEGCQIDYLIQLKQNILYACEVKF
SRKEAGMSVIQDMKQKLDKFIKPGFAIIPVLININGVSDSVRDSYFRLIDFSDMLN

>gene_1695|GeneMark.hmm|354_aa|+|8968|10029 >NVVL01000079.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_26257, whole genome shotgun sequence
MGVLLVFGILLTVKCRYMLFGVEIGLDMGIVIGFLVLTAVGMGHGKSVKTIKDIALGGR

NFSTAALTATIVATWASGSGFFILMSKTYSDGLVYMFASFGIGISFFIVAFLLVPRMGEF
LGSVSIAMGNLYGKKVRVITAIAGTIGAAGSIAGQFKVFGNMFYFLHIPDYIAVITA
GFIATLYSAFGGIRAVTFTDILQSVAFGVIIIPMVGFIVWGEFFNEGLSFSQAASNSKFNL
DILFDSGNPELLGMVVMFCYFCIPTVSAPAFQRIAIGRNVEQVKKAFIAGAFILIKII
IAWIPFLVYSMNPSLESGQLVSYIVDTYSYPGLRGIIVAIIALSMSTADSRIN

>gene_1696|GeneMark.hmm|30_aa|+|2|94 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
QSPKTPKPQNPKTPYLNQGKQLIIILITER

>gene_1697|GeneMark.hmm|43_aa|+|974|1105 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VQLQPMEMLSARLVMLLLQVIATLAQSSEKSMLSDIREQLKQS

>gene_1698|GeneMark.hmm|91_aa|+|1102|1377 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
LTTDNKCKKMCQPKQIELMVGEKDNHILICQDCDAGCEHGCGRGNTKSCPKDSTKTPADAD
FLSAHCATGKKVEKFPFRFKNNRGPMPADQ

>gene_1699|GeneMark.hmm|72_aa|+|1409|1627 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MQIWKTKLNSKSDVPLAQMAMDSLLQRLNLSVKCAKLELLIVQPHGMQIVTVVKWFQ
ELLAKKLNSS

>gene_1700|GeneMark.hmm|48_aa|+|1624|1770 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MTSEGRCKHIKTINCPPAKFFDKAAKACADCTGCAKCHGAADNCSECA

>gene_1701|GeneMark.hmm|27_aa|+|1837|1920 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MTDKACTVIEGGRKERDILDKAEEMEE

>gene_1702|GeneMark.hmm|161_aa|+|2159|2644 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MELVLQLLIVELASLLTPLKVNHLAKPIIALNVNTEETVAVKSALLISSFTKENVSTLA
IPLKDYLRSKMERKHVNTVTTIMVAKHVKLQIQTQQLVKSVTQLTLFSALNVSKIAHLR
LTERLQTMKPRVHLVKMMLKLSNADQEKTQVLMYYKQWNH

>gene_1703|GeneMark.hmm|89_aa|+|2833|3102 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VHPVTGECARDGPTSECKTDLACAFCKKSEAAGSGALCTSCPTGKVLKSGLCVDPADCA
GQWGGKKRMGDVEISACVPCFEGCATCNK

>gene_1704|GeneMark.hmm|33_aa|+|3239|3340 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MEIQQIRNAKLAVQTNSNALKQMEQQPAIEDLF

>gene_1705|GeneMark.hmm|119_aa|+|3365|3724 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VQHAQPTNSTIESLLQMLKVNLLKFFVLTVLVIVQNVNTKHHNVLSAQLISQWLLFIDVG
LHPLHQKVMPLTRIHLNLSQIHKPLFNAQLHTKTALLVERLIHSKLLL FHV LNVMTDSN

>gene_1706|GeneMark.hmm|109_aa|+|3745|4074 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MCYEKCPIGEFFSNKANMCRQCKGDDMACKEVPVGDPTATEFDYKTIACKKGAIMRKGR
HGERSCVSKCGKNEFEAFEELEIKNEGGNMSKKPDQGGDKLDSEAKGDF

>gene_1707|GeneMark.hmm|98_aa|+|4124|4420 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VKKICKTQIHKKMEPERLSWIKMMKEKEMLNLSKLT LNTKRN VMEQKKILMHHILPEMLK
VLTKPSLKERTKSQFSKRMVMKNQNSKKNFKTTQLIKR

>gene_1708|GeneMark.hmm|214_aa|+|4417|5061 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MKECNDLDKTRKKNQKFKPMSIKVCRPCPDWCNDCNKFQCKACKNSQDVLDKQGNVCVCK
DLTSNIKVLDDKERGTVIIIITYPGRIDVKGDDKREEKMDDLEERNGGQHKPDKEEMDGVM
HSWGIDRDQFEIFRGKAERIMNNEKCQLKWNMARS MG EFDKRLDEEFYEEKEEKNRKDKM
CKAYNHA EFLTAADG E AAGFSGEEQGD RQKIEGC

>gene_1709|GeneMark.hmm|71_aa|+|5048|5263 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
LKDVKPRHSKMSFSAQLPINAELLELNHCLRNKNHLEVRMRKISNNSVIKNLRTLKMHRP
YFQNNKEMMQD

>gene_1710|GeneMark.hmm|45_aa|+|5314|5451 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MADIKAFMSANKGSQKDILRSENEKDDSCGKEPSMSQNDKENM

>gene_1711|GeneMark.hmm|88_aa|+|5432|5698 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MIKKICKSNSMERLSNHLLQEKEMITLLSKEPKEMLDYLEKIDKKKLN VVIKCFKDLERL
LDLKH WEDVKYHQLTKNREKKKKEAKEK

>gene_1712|GeneMark.hmm|34_aa|+|5695|5799 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VSGDANEISDRDGGDRTR EEEQ QMEQIVGMIDDA

>gene_1713|GeneMark.hmm|128_aa|+|5789|6175 >NVVL01000080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MMHKKKCLESEVMKLT VKTDKKDKNHFNKVRKMLKDLLHISKLVYQQKRLKII E EVMER
ENLQKMLLDQEEKRMMKKPERTSNQIVQTKNKITDQVVERSCPMRIWNMFKTAELDILRT
ILEIGQQS

>gene_1714|GeneMark.hmm|313_aa|+|6304|7245 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
LKSFRDTPMTGIYARGEQGELEKCWEHKDFPHKDEVEEDFIKPCQCQIKVLNAADNSID
EVNTPKCCQAQFAATQTSISKALSADLAGKTIVFNCEQENKRGGLCFQQVFKVNENDAVTYR
QLDRVPDRKGRCEIKGDTFIQVPRLVKNSCTVQEEGLAISLVLKKKNAQGTFFDSATAD
LPADFDIANVKMGSRAKFFNALPVGIYKATWAWDGVSGEEFVDIFCIRNKPIGLNCMDLR
IEQGNNGGAMKCAENLSVDDISVSVAGGCADPVKTIVEGKLVLTFFATIDAAKDCELLIT
DANTSEELAGNRV

>gene_1715|GeneMark.hmm|113_aa|+|7297|7638 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
VKQEQLKLNIDEPNQFFLQCGRGTAVAGTTISLFDSEFTLITTFDVSKNGGFVIKGADA
NKFTEVDGATTGYLSLENGSIQVERDELLELGGVGYDFSVENVNGDNIAFEANTY

>gene_1716|GeneMark.hmm|52_aa|+|7681|7839 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
LEKGGPKKGGKINRGCKIETTSDGFTIINPLPKGKPGSTGIAICVMEGDYKVAC

>gene_1717|GeneMark.hmm|60_aa|-|7836|8018 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
LHDFLVSLSKLAKSEHAALVNSTHRLASSLQIDIFSRIAAPSSPKAAALFELSFVIDNI

>gene_1718|GeneMark.hmm|95_aa|+|8177|8464 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MILFQIVKHFSPTLKKIKIHLLKKKREIIAKSFKKLEQLLPLLRQLMHLKQLWTRTGQHR
FSKEQNSPIRTKLLRLKLLKAQSELNSQRADVKI

>gene_1719|GeneMark.hmm|59_aa|+|8669|8848 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MMEQPQVSTMNHLLKMNLLAVLKKINSAFQLDNKLMQMEILFQEMLSKSTQKIQITLIK

>gene_1720|GeneMark.hmm|265_aa|+|8845|9642 >NVVL0100080.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26406, whole genome shotgun sequence
MTSDTVADNIIATSCSASQYFFLETASSISADRFYMGFILIYTIIFLDLYLIFGVILGKK
FDNEGKSAVQIPSDDEKSVNANNTDMGLKGDIEQNVRAKKNPTCCFALKQKHRCISVFS
AYHPLLSRPARLLNVSGYFLALILTGGMLLAMEDIVGGIIGFAIAFLFYRLWIFLGEKM
FKANKCLGYIVGLILVVGHHGAGVAFTLTQIDEAFTFWGIFWAGIVIELAFWEIISFCV
QNGIAKKANKEKRSWVTIPLWKAYN

>gene_1721|GeneMark.hmm|277_aa|-|40|873 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MSLSACKGISIDGEQWFNSWANDKCYDIMYNLVYKDMGESSYNVIGYEMSQDIMVEVFEK
YTNTYNITSPGLEGYNSFQNTLRDVCSRLPGVCEKALESYCHSCPKNRRDMSLSKPTLE
FCGCYIRNGKTTKQCDPLCNRVNTIQLPNGSGGTLKCNENICVINDVTIQAASDLSNKS
VTFKQLCNCVGGCKCIISGINITSLLNSTGITKNIDQHCGAKSTCLKILPNGTDEIVNC
LTQLPNDKHKEIYYISLTFICVLLFAAIIFYFYKRNK

>gene_1722|GeneMark.hmm|66_aa|+|914|1114 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MESKSEFRKNAVGFMFKFFGVDFKTEFRLHSVMNAEDNTRFLENLDKSHNHYSKRYK
GGSPKK

>gene_1723|GeneMark.hmm|401_aa|+|1152|2357 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MEFGPNIIPIYSQTCKTKKNISFVISNGSVRASIDSGYLKIQLLAYLIYSDVSNPNVIS
DDCLSAYTQICIKYDQYMGNIHFCEIVNNEIYRMIYIECKCDLFLRSSTAGIILHFMTK
ALLLREDSEECTKSKMSHLENIPKNSIPLAIRCCNSNVENNVEQIAKLCVFDIGGYLE
TTDGYKYENYVLDKCLYLSSEHEEYWETTAKEIYKLIYGVPGISMSTRASLSFIYGIGG
FDLFTLKSMDKLNLSYSLGIKFDTGIPTEKVMVDAVKLELLGIDKYTEEKSLN
ISKYDPLSMFSLHGVKSVCCNNKYDIHSYNSDLVYFCDGGIVYVFIREDFKLIETNIN
PFSGKEFPYRIIEMKVNSSHRMGLPECSSIRKLLDMVN

>gene_1724|GeneMark.hmm|215_aa|-|2381|3028 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MYNANEETVKATKNNVMFLQDVEQHEIIEGIIFFRTSRCKINRLVLSKEVLDVKDCSC
GLLEIILNEKVLSLDCSNNNSLGLTIVKHRMHKFCNNSNNIKNLVFKCTPAILSCNNNII
GNLTFNKTPSIISCYGNELTRNKDIEISYTKPLNYTSIAYNMRTGRYPSKRKYMCISCN
SFVSSDLIYTKTRKNVTGYTTKTRICIKCFRRMIF

>gene_1725|GeneMark.hmm|89_aa|+|3240|3509 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MKPIIIYKMSDEYVFNVLSSSESENKIKINVTGNIDNIFITLFLGKDSYIINTKDVNIMD
LNPHPKCKAEVMVPSVSSVATLPRNKIPH

>gene_1726|GeneMark.hmm|1098_aa|+|3547|6843 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MSSKETKKNAPESKVRGRINVNRRKRINVNRRRSNKTSRQGGKISGGRSTKVNVLTK
VREERKKNREYKKNKGYRGRTPKPEAIESELISDVTNDGILVTREAMYRATSKAKASSKLP
MYVVRGVTIRVADQETLIRESVATISNSSARGKNSINDPRTGVTMSDVLCPCTCNQGITCQ
GHPGLIKLSRPLLHPMYIREIIRLRIICNVCGEPLMGFEEMKNEGITSLLSDVRLKVLE
VKCIKRTCQSHAKFGIPEPCRVNPQYDVKKSDTARAIKMNAGRSTLSAGKVSEILGRLTN
KNAILLGFAYGMHPKNYVLKVLPMVPRIRPSSVHSGTTMEDAQTQTYKKIINANNAILN
NLNSADADNKYAELVGYVNDLWKNNSQSNNPHTQAANIPKKGILRRNMQGRVD
NSARTVIVGVSGIPFVWVMLPRVIAETLYAVETVGPNGITWLTFLLRNNKITYIIPYGGP
RKGISIKIDINS GAPNIGYTLKFGDRIRRNILDGDHIIVNRNPTLHKGGLLAYEVKIWDN
LTLGMTLPATTLHNADFDGDEVNIHMPTTAAVAELEIIVTIKAQIGVGVIFDALTSVNL
LTFGNFANDRSNDIDKSKEINVRIGKCNFDQLVNIYVIGSLGDNITPSFNESFSFRDYR
VRVGELDKPSNGFSFKTYIEKLIIDFEGIGKYTGKSLFLLLPNDFNYERKGDVIRN
GVLLSGVIGKDDIGPMGSLVVKLRNSYGLKVRNMFASATNVFESWISMRGFSVGYDDCH
PFNEKERLILENTVSEEVIAEAHVMSLGPVKKDPMEEEREENEVISTLNIVKTIGQKIT
KEILTRIPKSEENEDDFVVIISNKFMEHDTIGYGMVIEGDVLTVEYDNTIIASNDWFYV
DEILNRSLYVADKTIIEIREHDEYICGIMKENSLSVIMSDSKAKGNPVNVAQITSLGQQ
YFEGKRPGSTVYFGKSSNIRARGFCTRSYTGSTPYGFFAVAKAGREGLVETATGTQDT

GTSQRS AVKALEDITIRNDGTVRASNGKIIQFHYGDNSVDTERIIFKFKVGNKNVRTFIDI
SSEVNKLNTGYGIMKPIK

>gene_1727|GeneMark.hmm|304_aa|+|6887|7801 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MFKLPK SFGNDKVIMFPDENDVLNGILIEEGTQVCKCSNLNIKYIFCPKSLIYLDCSMN
KLKIFICSDNLSYLICNDNDIRSITFNNKLKHLNCSNNNIEQLCPNDELINLFCPGSHIS
HVEFTKSLKVTCSHNNLNKNIIVNKGLLHLCRNNKINFILLPKSIKYLNVTSNPLANIS
IKGNNA YDKAITKCIKYPNVQHKIGGLYANRYKKNITPVISNSRKIPIDFYVSRPNPTL
YSLCYRLTKPKNKSFRVLELSNCQTCWSKYPTNLIGDVKVVTGNGVKTAKVCIDCIMEQK
LIIM

>gene_1728|GeneMark.hmm|175_aa|-|7856|8383 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
VDIINTIQSNSISFIYLVYIMKMYIVFLVILVYLIWSEYGSQDCIDQKCHNKVEEVNDL
KFETILGVIRNANDNNHCIVVWRRAMISAITTGII LNKIIYNSDYSLFIVITVVFGLSYI
FSMKTQKETRSKDIALDNELKKNLVLAQIPFGILASTESPHERIKHVGYSLY

>gene_1729|GeneMark.hmm|294_aa|+|8340|9224 >NVVL0100081.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26629, whole genome shotgun sequence
MKLILLLCIVFIISTSVLFLTRFGKGEEITTPKNKPLDELNILTGSSKSGIEIVGGENS
GSYYVDSLSCNKSDGIWLHHLGKHCKCDFSLFGKCNRVAYDDTYKCLGNIDKTKINL
DIISEQNVSNLSFVHNSCTSLCNDEDNCVGVHYEDKVCTLFSKISIEGTITYSHSVDGNL
YMKGNKVIIDRVFITKGLPLRYYLKDRYSTKDGLDITWAIYQMTQYKIHFTPTFIIN
DPNWIGVYSNPNINLDNILQIISNGTTADYFVSYTL DGLPIWKITYLVYVEITP

>gene_1730|GeneMark.hmm|1382_aa|-|3|4148 >NVVL0100082.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26648, whole genome shotgun sequence
MKRHVDPINPNIGINAVA AVDPILGIVSAKVIARQEVGYEDVRKLLKVATKTSLPVKKK
AVDLLMAILDKRYPKPARSADLMAKNILNYFVSESNLENISLNDAAILTIASYLDNGRCR
NSATKALIAIKVNNPLPKQASDLLAQQKGG LAIGGPASSSAAPSPSGSLAQLNEQHMGTV
QSSSNQREAEQGEVQREAEQRARILSRMIQGLAVRS GEGHYQLSKKTLGYSKLNPGDEG
LVNIAKGLPYEDA EKTQEILTYLKKLYLRNKHAPDFVIAKLIELEALPQIQAESIEEFIP
AALIATNQDGAKPRHVLIDEIGAANKNNHALSSWLSGASNELSRIDETITQDSQAFPOGK
AIDNWQAEDILAWSEAVSKEHINEDLLYELIAVASQGVRLHKGYPARDIQTLSVLALLNK
QPDQGR LIQVKTGEGKTIICAMLACITAFRNKQPV DVITSSSVLAERDSAEQVAYFSLFG
LSCSNLTRGDSNAPKECYTADILYGSASDFQGDYLRDEFKRLGTRSNRVFGSVIVDEVDS
MLVDDGAKITKLSSPRPGTEYLAPIFMLTWKAIANLEITDEVLSNKGLRGELTEQIQARI
EAIIDGEYFSYPSYLLGYISSQIKNWANSALASVMREDKHVYVIAQDIDSGADIIPVDY
INSGVVQNKTSWGNVGHQFLQVKHSLMMSAESVTTSYISNMSFFMKYGANIMGMTGLGS
TEAKSLLGEVYHIDTAVIPKFKPDLFHEEEAIITSDEATHKAAILSAATEVANS GRAVLI
ISESIAFAKELTADLQAICPPNKVHIYSRTDMEEMNAVSNIQEAGNIIVATNLAGRGTDI
KLTDEVNENGG LHVIITFLPSNLRVEEQAFGRTARQGQPGSGRLVLNGAEEASKLSLEAD
SSANTDSYKAIRD LSEKIRLAEVKEVRLPKISFEDRLFERNQEIYQHLRTTEENRYKLA
QLEESWGFWLKDL MVSHKNSENPETQSAAYLEFEAFKQE QIALYNSDVATSNPIYQIQMG
HSRLGRNNSYDESIRLLEQVAKPEDPYSFAGHYLLAYAYLRKNLAGKAKNDQGLVAAAYR

HMHIAKSHLEEVIPQLQSMQLLGTNSAGSPISTQITNKVDLFNHHLSYINHALKFIES
SNPKNIMTVGKTKRFEFYAEGQAPMSEIRELNSLGAMQLYELDAKKPPKNILTSVVVII
IGVAQVAVGTMAMASGGTLGIGLIASGLGDMYQGINAALKGEGIHLGEYFKAKAIEFAI
NVISQGIADKLRPAKAGAVVKKGAELSTGQLLFKIGTRVGMRLAADQVVVLATKELSRG
ALKKAINRAIRSARRELESRLSSPRIAAHLENMLAIDNLYNRKYSRQLSSAARDFFTRRS
SE

>gene_1731|GeneMark.hmm|946_aa|-|4273|7113 >NVVL0100082.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26648, whole genome shotgun sequence
MENAVSPPVSGSTLQNLQLSAAGHQRSNLNSAERNALNQSIAQLRNSNQAGQNQYKNDL
QKLDTVKKQILEHQREIIALNRDISSMEMGMDNISIFQDFMDEMKSILSKYSSVAGRRI
DEAEMVVKTLPENELMHTDIKATCERQSLGAFNELLSKLGNNINAQDGEGRLLMHALMH
GFFPALDLLARPELDCNITDNKGQTALYACTMPLKYPVQILSRTADVNLKLTLETGNT
AMHLVIAATRDKLFSDEYDDYDLTDGSGNVFFDASQFVGNLVITGGTFTMGSASPTGRTI
NQAKTMILLINMLCEGGLDFNAQNNQGQTPFMIACAHLKYLVTCLDQGDLDVTSKIDNN
GYNSLLWVLEVRDTAIVERFLNDGFSADYRDEGRSFFWMSIYNQPEMLQLLLRHGADP
SICGNSGSTALHAAAEETGAAKVMPIILLNHFVNERMDTPHQITPLWMACQNGHLEAVKYL
LTHGANPALGRADMDISILRIANKQHLAVVQELVARDDVDANAPDNGGIYPIHAAAELG
STDIVRLLLNYSDVNVRAIAPHQITALWLACQNGKAETIELLLQSGGDINLARADNGISP
ISMAMQKNHVYVVKLLARDDVDLSAVDGANAGVIHYATVLDNLEIMQILVDKQIDINAQ
NAAGLTALYVATLKNSEMAALLLAGGAEHDPNVQGFYPIHGAVHHGHMGMMEILLPFI
NTQSSGGHTPLYAICQAEPNLELIQFLFDHGADSSISHAGGYFPIHGAVHNNHLLAALE
LLLQNGVDINSHDLEKHSATPLYYSMGYGNQEIKLGTVDVLLAHGADTNIFEFDGDTMPH
MAGYRARVDLMQRLIAHGASVNAQNDNGETALYVCIKQPDFATDEQKLLAVQYLLANDAE
VAPESGLSALDAASQYLVSAMGFLEHPESVRPLEEFNIEVLGGDEV

>gene_1732|GeneMark.hmm|603_aa|-|7145|8956 >NVVL0100082.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26648, whole genome shotgun sequence
MGSVGKGFCKIFGINHKKRIIIDHEEERRVNELTNIRANNKYEASGRAPGVFSDFEELA
YKDWLSQSGADNRNSPYYSFARSDSKQRTKVLGFNGHPNIYVHWEDRFDHAAYNRDMNSA
ELAIRQCKWEIQREADDLRSIISQCSAQESPYKKQISKLKSVYERCKVEYTALCNKNRAL
TNVLNEQKLLVVKKHDHDEALTHFRQLQESVKAQYREEFGANAQDAKSALRELITAEQQ
RVYHKLEASTIEERTKILFGIFDNPYQQMFQMILSLGVDQDFLAYMAVKFEKMSAFEYA
LEHGATVDGYFVDDATTLERILSSGKEDIARALQASDSVLCTALSAAQKHDLGILHQLY
DSDPGVFSKHDGVVGYSLTHFFALAGYIDALELAIQLDPDCLSVLTLAEESVFAVVLRS
SDEVIRLIGNNIDIELALQAFIASDNDEFLIKAMSCIELSLEIKAELESIIYENKTLA
RELQNPDEIKQIFAIVALSGNNILAEECFQTFMDQIGQEYLDQVLNPEISDEMRAYFE
ARNMAAEDMLADDFVENEALDNLLEFSELVGFDEFAGEALMGGDLVEDGLAGDGLVGEELK
FDE

>gene_1733|GeneMark.hmm|269_aa|-|154|963 >NVVL0100083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
VVDCIQGPKGCTGEQGIPGPTGPQGIQGPLGPQGIQGGIQQIQLPGTQDSSNTCAGE
WILTGEIDPPTYLTPGAIFSLPNLVLITIGEWQSAHSSCKIIEGMPSNVTERVFDEIVVS
GTDKLSLRSGKEGLYNVSLTTISALVYNRDEVSVDNDRFVYEIGLREDEIVNQTTPIVIF
TVNSMDPVGLADQEVISKANTLGRMIVSSNTRLMLVFKEGRTYGLVFRFTKAPASGTGMTK

LLIASSYMRVVATRISDIPDDYVSTLPPQ

>gene_1734|GeneMark.hmm|454_aa|-|1256|2620 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MEGPGDKDILTGKYGDKAKIGALVEMAMNDKLPYPFIKNTIDPKLKFNNLRKFTPTILES
QYKISGHNQNNLYHNWKGDLVSDPENSYDDYNIILDYYTEIERSKSSASGSISSFDSW
SDRTIVKKVMTEIVKNHKKGGKMPTRLRDFSDALYNQVKRPGFRPTWLKGIWILYKGY
PKDLNILNMSSGWGSELMISLVLGYSYLGFDPNKKLPGHDAMIVDFGNVKKQKVIYEPF
ENYDLGKLFDAVTSPPFYDKEIYSSGEQSIDTYSDFSSWMVGFQYISNAWYSIKVG
GYLIIHMSDIRGREINPMNLYIEQFLKNSSWVKMVGVSFSKNAGYPVWIWQKKNALNK
WNRKRKRKFSTLYPSLFDKIIMGYVRTLTTEPKKSTILELALADVSPDVVNYARDTVFRE
NYKVEYIVNHSKNTKTAKETIRKIALFAYYSENT

>gene_1735|GeneMark.hmm|337_aa|-|2801|3814 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MLVLVVTLSLLSVIAISLLIILFGNISKKTDTDVSDNVTLIENERTGWGILSDLPNGLRN
ECNSYTFGALSDDDEYGKFTLDVETLNRLVPTLISEDVCIDSGQIAAKQQIRECIGKDNNDP
CVDSEGKVFVKGQKEILYVPCAKRCKGTLISLNFDAKDPSNSSCIYDLSTGTAISTKC
SLLDESQILVERTNNEKELKENDNGIYAKFLDRFNGKCVPLDEIPVIGTKIGLGECKQN
SGYVWLLIPPTNIDGEMTSQQIVYTSTLENGPKLGNFRDFVSANELLSLNADGDIITLTK
FNTSSGQSSQILDYRLYNILNGKQSDGNVDYPPYKFS

>gene_1736|GeneMark.hmm|258_aa|+|3886|4662 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MSGSTNTLNEFNSKVNDVFKDLIVTDVLGKLTWLYTSQGLDVSIDDMLKGMEMPVAVKE
RKRSKTTTTSKRSKGKTVTGQCDYVFKKGFANNSCEKNIFVEGHKKCSSHMGRKSSAIQG
PMITTKPKVSRKILPVKKYGSFGFITQGGIIVKESGVPTVVGKLTGKVSDDLDEDEK
HAVKLGATKGGKIITNLSERTQIQPNKDEEDMSDEEDMSDEEDMSDEEEDRPGRPVSVS
VDSLLTEEEMSQFVSADV

>gene_1737|GeneMark.hmm|205_aa|-|4698|5315 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MSTTKTNLSIVLDLDELHTITNVKSLIKMNILGNPNKLGVRERLYIINMNDGNNMWGI
YRPHLREFINFCFDYFKHVCVWSAGSYEVHKIVHKIFSGINKPHIVYTRNDMKIVAGEM
RKPLSHLMVGCMMNSKNTLILEDYKSFVTDPNNGLLIPAYLPSSDLLGVMEEDNHLEAL
ILWLSSDKISHCSDIREVDKISLFV

>gene_1738|GeneMark.hmm|627_aa|-|5347|7230 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MNNPPAKVSRSLINLDDLIKSSSEIVYSYGEHYDKNFKVNQSYDVM MYKFKQNVDRIAN
LVTLFKPLDTLLLSMGGVIPMAGINNIRTQLYKEKYADNHRKKINVNRFDVSLCPGTHL
MRSVTEFIQTWISESAHSLPGEVILFSLTPGSSIDKILHSVPINPKGSHIHKSSCESI
IRAILSTSNNTVISREFVTRKRRKIQISTKYVSINNLRSLIHRSLSKRKTSLYDFSILLS
MLGNKYLPKCPSLDDSKLNNTIKGIDDLISYNNANVSLVDVKNGNIKWDSLLILLGKLL
DKEEAMLSSQLKNRDKENSSSKISSMSVLVQSKNTTQTFSENKLVLDYNKYRNNWYSNAI
GPRSNTQSLGILNGMSVVYDGGIYGARREDVIAMCINYLNGIQWSIDYHSLGISGVSNEW
VYPKHYPFVDMYSVLRDVKVINEIYPKSKEAINTLHMLIMVLPMSFSLLPVVIENKL

KEISELSYNLPVSYILDVNNGEEIHLIPKHKLREVISFMGSDDIIRVSDDFSIFNSENKE
IFVGPVKNGYYSTLNKNIIFKSKTNEKIKEDRDIDRQVKNFKNRRDSKTKKVKVKAYIPM
TYRDINSSNTKSNISRFDMESIDVPEF

>gene_1739|GeneMark.hmm|194_aa|-|7348|7932 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MRLVFGCDILYIYALILFVTLFIMYLLVGGKKHAFVGLDENNKVTVCTKTVKVLHKETHK
NVGKIKRKYIKCSKGETECRNVLEDLFNVYFDRCRPDFLKNPETKRNLELDCFNGLMLA
VEYNGVQHYVHPNFTNQSKEAFVKQMRRDIFKIEMCDKLHIYLITVPYTVKRKDIKEYII
SRIPRPILSKRKDI

>gene_1740|GeneMark.hmm|243_aa|-|8260|8991 >NVVL01000083.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26682, whole genome shotgun sequence
MNFSKEEVLVVTAKTKTLIVPKGIKLVLCIDIGLETILNEGIVYVSCSHNELNELIIPS
SVTHLNCSYNEIANLMVPDGMTHLDCHGNKLTTELIVPNGMTHLDCHGNKLTTELIVPDSVV
RLHCHNNGLTTELIVPNGVMHLCNNGLTTELIVPNGVTHLICHGNPLGDLSKYSELIKPK
LVSLSYMCYEIVDKSNIPKCFAGVDEVTCDGCKNKVIKDLVYVSYKGTVGGYIRKTIKCK
KCF

>gene_1741|GeneMark.hmm|55_aa|+|3|170 >NVVL01000084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
DNFVISEFNSVFCPTDINDFKKIKFHTLFKSIAVRAGGNSIDYSSNNNCRIGNIY

>gene_1742|GeneMark.hmm|42_aa|-|311|439 >NVVL01000084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
LLQGALLVGLLEYHIFLDLSVVVFEETAIKTEEELKSLEEDIK

>gene_1743|GeneMark.hmm|83_aa|-|463|714 >NVVL01000084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
VGFQEVFRDVLDSQVDSQLEAIGLDRFIEIAGFVDINIEGLDQIRLLHLLLENDRDIV
LSLPLEEVANVPLALEVDAMGEV

>gene_1744|GeneMark.hmm|500_aa|-|748|2250 >NVVL01000084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
LFKAAIKRDNLEEVITAFGIDVKNSSMYQTLAFIHRFIREGEDEDLEELANDIDSFLEKA
SPEKLVSIACFVGYDIGYMPDIDEPREAI DLFL ENASPKRLASIA RFISHVSYIHFG RDD
RPDAASINKLRIDQLREAI SLFLENASPEEIH LITSFISYDIDGLRGAIGLFLENALPEE
LDSIEKFVDGASERVLNVVDINQLREQIASLLGKATPRKLESIASCINSESEDGSSAVGF
TSDVVELRNAINLSFENATSGK LKSTIKSIFADILES KIALFLKCETPENLKSIVEFIGS
EKYSDPKFTQYFLTYSQFCLLKVAIAAGNLQQVSESIQANPELAERQAHMLAIDA IKTN
QLEVASQFFRGAYLDLPQGLDLNLLYDKCEVSLTMAAQRGNFAVTIQAFGIDLQKFVEY
QICAMLREWLEDLKRGNFPVRSSMKSL LAIELDPNGDYADLPGQTVETPEKVQAMLERLG
SSFESYNLHLYSLLHILAT

>gene_1745|GeneMark.hmm|142_aa|-|2265|2693 >NVVL01000084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence

MKNLDYFLILKLNMRMSRSTENPLELRNISRLPEELSILERSLLEDKLAAALESEGMTI
AELAQEKEEELYSLICFAIRNNHFAEIAALLKEADVDSILYKYSLLTEDPQQDESAEQL
GQSQTMRLMTLSGMRRVEKTII

>gene_1746|GeneMark.hmm|262_aa|-|3046|3834 >NVVL0100084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
MTIRKTKNTILIKNETIGSNEIAELASLLQENPNLTTLMINESQMDAATIASFAELFKEN
NTLTTLNLSNIGDNGAAALAEALSNNHTLTTLFSSAGIGSAGIDHLANGLQNNYFLT
LIFWGKQGHPEVQPITAIIDRNKAFLKNFAKMLASDADATTNNQITWSHDLINYLKLCDH
SKLSEYLIKLRVCDNSDASNLINNYHTQIAEFQHEHANEVSDMLEECLALHAFPTDLTP
HVFSFLPDVDSGIESILGATND

>gene_1747|GeneMark.hmm|1186_aa|+|4044|7604 >NVVL0100084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
VRRELTDSGLTKMILETYPSSKEELYNEHLQEISGASFTFRELDIIACIVHNRGEKKIA
SLLSISYRTVGSVHRNIMSKLGYSSREYIIDAVERSGKLQHVRRQYYFHLVMEASFELHLQ
KIGGVVNRSGIVCATNFSVDTEEEKSLELFTESLTIANITLTDINLLKAEGSYEKARHN
LYIISTKSVNKTDLHQKTGDAGKAPQNESKKNIAVCFDQDIDLLTIQDLEHVDFRSKSNY
YFSVLELVGKLTGKPLAHGIIQEFKDEHQDLQKSWAGTGITGGEFSDNGSTHFMSKNAAI
LAGCAGIIIFLVYLLVWNNTPSGNNNSNMQVASHNQTEIWNLPKQLEHYTQRAELTKS
IWDKFRENKGSKRKTSILTGLYGLGGVGTSLAKNVIHNPSSAQHYDFKGWFSMETKE
LLQADYFELGEKHLYFTKNISDKQKILRVKSWLERRGNILLVYDNAPDMSILRPYLPDNG
HIIITSRNYKLPGVIEVDVMTEKEATKLLDKLIPNKIKQDKAYDKDLKAKELGYLPLA
LSQAGAYIAENMLTIAGYLSLYNTERDRLLSDKTMPTMDKHAPAYITWDMMSIKKLQQLKQ
EGEEALDLLDFIAYCYPENIPKLLTQYLYKKADNETSVKLNTVLNLLRRYALIKITPHT
VSIHGLVHTWLKSKHSTNKKLTLFKRSIPIKAIYPWENKTMEDVSLIKLILPHVTVIIS
QMQLTAEIEYASLLSILGDSYYTLGDYAKSRQFFDKVLTINKKHFGDNSIEIARTSHDL
GKVYLKLGNYAKAKELLEKALRIKERYGESHETIISLHHLGRVYLRGKYTKAKELLE
KVLVKEKYYGKTHINVIYSLHILGKVVYLCGNYTKAKELLERALVIKMHYGSKHVEVA
YSLHHLGRTHFFQGDYKAKKLEKALIMKERYYGLKHVETARTLHYLGRVYSYSSNDMK
AKQSLEKALAIQELHYGTDHMEAYILYHLGKVNLRSLNYVKAKELLEKALMINQTYHGS
NHNTLTINALGSMGIVYFALGEPKRGQELLGKASEMLTKLHKKESIFVANSLANIGNAYR
VLNNHHEKQLLQSLTLRKYNYDKITIAKVLGNIGLLYGALGKPEKKKEYLENALLI
FKNHLQTEHPDIRKTIKYLNSDNFAKRLNKNNSKRLGYSIIVLP

>gene_1748|GeneMark.hmm|446_aa|+|7685|9025 >NVVL0100084.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26696, whole genome shotgun sequence
MSASSDLEYQCSTGASHTDDGTGALRVEHQLPESKVLDLNFGGPVPIWDEAKVSEWENQE
GQILSESGSITPTTLGSEYLLSTDINSVIQFCEQLSIERQEQLKEERSKFEEDKRSFLLQ
IQRYPDVALSPLKNDSTYGLALLETEEIDLEEISKLFTKISKLLQHFNPNAIMKALKKL
AEDERYFRLVEDYSGFALPDLSTPPLCLRYYQEHNGFLSEKNPHTVVSRLFVLLAENLST
CINAPLEENELHPLEQLIFQAAIAKLKESAAPSGVACDTFVRKNGVIHNDQGHPEHCVV
LWKVGDVYVYLDIPNRHSLSKELYQPIEVILKATDGPNNHGNVEVDTQGVVYKRLQNAIG
RGDNDARDCVDLAIKLELVYQCSRTEETVMEAAVKQIASLGSRNAGELQGKNYKNMQT
PRNFATSDADTRHNARLLYIQNLHTN

>gene_1749|GeneMark.hmm|206_aa|-|2|619 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MFGGLAKLSMIGALTCFVLSAAFTLLFRMKEADAWVSFKSLFKLVLSLVTAVLFYVVGIF
LFQSYWSLQEMHYSIYRQKDFNQEVWFEEERKYHPAPGRYAWIDCTRGRMYDDLHKHNLK
FLMSKKEIEDLLSHSSIKRKYGWLYKYSDCFQYMLGSGCHKGPPSLLVFCSIPFTNSYRHY
LTPEKDRYTEIYEDNEERQKIINKLY

>gene_1750|GeneMark.hmm|120_aa|-|659|1021 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
VDAELMQFVEQVKTEHGIPHIDLFTGHSLGGSLATLGAIAQNSEVVAFDPAGVKRIVETR
FGLDVDESMVTNFLSKANVINGVNKQFGRVIQLRSDVGEYNTRKIHDLSESSMVANNGV

>gene_1751|GeneMark.hmm|285_aa|-|1033|1890 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MKRVSLESRRIQGDNEEIFKQALEQQDVEAVRSLISKGNFNVNGSIFYQPLIEAIKLDLV
EVVGLLLGAKANPNQPSRHGNTILEEAVARGNHAMLSVLEHGADPKQSSIFNSPLRQAI
EDGNHKAALLLDKGCDPNQGRAFHDKPLFIAQEVGDEDMIALQKHGANLEISMNPPAL
VDTETYERDDGAPSLTSFPGGGVFAGGGIFAGGSITITARSFENTGTMSAGDEIKLNVES
FNDTGLINGQKVTLNLQPRNDLAAESAEGSANLAGDSNGDDEVL

>gene_1752|GeneMark.hmm|242_aa|+|2624|3352 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MFLFEILKSIFTKQKNQTSEIDNPHNIYLEVPYSQKEIAKNYGAKWDCKKKKWFIPQGIN
PNPFERWMPCEEENFRAKYFYLGQAYRNCYECNKATQVNAIILPEGFEAIDGEALDDLEE
LGIQPKTIPFCRQDYLSILSYLTYISSDALEEIHKYTGRAYFVKKHKSIVTGYSYRSLCQ
HCSAAQGDNFVISEFNSVFCPTDINDFKKIKFHTLFKSIAVRAGGNSIDYSSNNNCRTSN
IY

>gene_1753|GeneMark.hmm|121_aa|+|3306|3671 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
LTTVQIITVELVTYINYTAHGTIDFFECALDAQALPHSTTEVCLNSSISRFDSELLNLE
DVDTKWYEKVRSLWFDLDIIAMQDGNVFSKTDLTEINQTVQELKNLVEDKVKIIPEDYM
L

>gene_1754|GeneMark.hmm|91_aa|-|3675|3950 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
LLATIGAEGFFILDITYTMFNFKIKKNLEFSLKFKCFSIKSLLALKLEPVTPLIAGEII
VLRIFRGAPLMHSLQRPVWLPKFIFLSYFII

>gene_1755|GeneMark.hmm|1045_aa|+|3937|7074 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MVASKSPEELLALKEAMLKRAISEGTLAEVLGEEGLTIAALYEQNEKVLVSLICFAVQEN
RFAEIAELLKNANVDVNILYKHSVLVETAKQNEYPEQSEDEGLFSEDPSNEVDSKWDVEH
EDGQEDSHITYDSVLVETAKQNEYFEQPEDEGRFSEDSSDEVDSSELVEGHEGNEESEEDH
HITYANRLFKAAIETGNLPEVISAFSIDKSSMYQTLALIHRFIHKGDDGEVEDLKKDI
DSFLEKASPERLGLIASFVGYDTGNIPNIDEPRGAIDLFLENTSPPKRLSSIASFIDHVSH
ISFGRNDRDLAASINKLRIDQLREAISSFLENASPEKLNLI TRFISYDIDELRGAIGLFL

ENALPEELDSVEKFVDGASERVLNVVDINQLRENIASLLEKATPRELESIVSRIRDESED
GSRAVEFTLDVVELRNAINLSFENATPEKLIKSTIKSIFADILESKIVLFLEHEEPEDLRS
IVEFVGREKYSDLKFTQWFFTYSNFCLLKVAIAAGNLQQVSESIQVNPHELPERQAHMLA
IDAICTNQLGDAQAQFRGRDLNLLYDECEVSMLAIAAKSGNFAATIGAFGIDLQRFAEYR
ICSMIREWLEDINDTERGDFHVRSSMKSLLAIELDHEDNYADLPGQTVATQEEVRAILKR
LGSNFELSYNLHLYSLLHILATEGTLQIRGLPGVEFHGVFRDVDLAQLEAIGLDGFIEI
AEFFDINIEELDQIRLLHLLLENNDTARALSFLGMELPENETIEMLKLTAAAGRLQDM
LSYVSRSYGQSDGYISRILSKQDLYSLAYFAVQENQLDGIKHLFNELRDNHCFHRESWDL
FDRKDKANLAQLFEVAIAAGNLAETMEAFKINITVLYAYKIRPVLEEWVNDVCASDSEFL
EALIYKVDYYMHELSELSARLLRGEDLTPDDAQKIAQSFDLSSYSGGGIRALEISAERG
YLQEVLRFLNIDISTISENIQSLLLQAAGVNQLVNVVAECLGVDLSALDMDTQTPLGFSLI
PMEHSERPDALSDVDITVAGDLAIL

>gene_1756|GeneMark.hmm|93_aa|+|7121|7402 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MSNGQKKYTSEFKSQAISLVRDANLPASQVARDLNNVNTLYNWLNAANKMLNNPTDKDS
LSEIKRLKELAQSNLERDILKKAAYFAKSTL

>gene_1757|GeneMark.hmm|232_aa|+|7487|8185 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MYGARKIKKRLEQCKIIISRTRIARLMSAAGLQIKTKRKYKTTTDSKHNLIIISPILLKRE
FYVAEPNSVWAGDITYISTQNGWLYLASVMDLYSRKIIIGWSMASSMKASLVNDAITMAIW
QRRPAKGLIWHTRGSDQYCSKSHRQILQDHGIVQSMSRKGDCWDNATSEFFSTLRELK
ELHNFADQQQAAAAIFEYIEVFYKIRLHSTIGYLAPTQFEDNERVLKKSVL

>gene_1758|GeneMark.hmm|166_aa|+|8233|8733 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
VVKVGMHKVLYKKTKEQSIDRHEDGARDCVDLAVKLILELDYQYSSLQGFKELMQTIYKT
ENSTLDYGILELIYSCNRTQEDVMTVMKAASEQISSLGSDHAGKLIPLKHIPTPRDFASS
GTAARHAARNDYEEAHLLKLCQYSGGKRNSVQVLYKLCHEALIF

>gene_1759|GeneMark.hmm|74_aa|+|8919|9140 >NVVL01000085.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26742, whole genome shotgun sequence
MTKKRQVEPYEITAAQTGENELLSKFVSKALEINYDSDAPKDEDERYDTLICDALWHAA
FNEQDESVKTLNG

>gene_1760|GeneMark.hmm|267_aa|+|58|861 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence
MNHTPRLNLPLIHSGQAQKEITHNEALSMLDVLINPVVQDIGIIHPPDAQEGQIFIVGTE
AQEEFKHQKLAQRIGQGWRVTPSKWLEATLSDSGSKHRFNGEYWAPSSHDIRDSPQA
ISTEIDQAEKHPKVEPQLQGDMLINKDTGEYLRVGHLEEELEPQGTHIDTNIQIPRHSI
VIAITMRVTEELSGISNFSIGVADDVERYGQNLNADTDTTNIGLTNHPLAYWTDTPIRIT
ANDGSFTGGKINLTIQYLQPHGAWDWD

>gene_1761|GeneMark.hmm|87_aa|+|908|1171 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence

MKLAQSFKTLTFNGIATIAAWLATNYDVDISEENQMAITTTIMAIINILLSLFTGKRLKN
KQSENHAESQNINPAPEKESIQTEQGN

>gene_1762|GeneMark.hmm|52_aa|+|1248|1406 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence
MDNQQEVQKDFHYLRKLRQRAEDSGFLAMRAIISIIIGAMAVLLWEGVKILS

>gene_1763|GeneMark.hmm|140_aa|+|1438|1860 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence
MINSTNQEKTTIKSPIPYFKHKELACPQTNQLILADGFAAKLLQLRIAFNQSMIITSCCR
SKAYNREVGGHPRSLHVYDKPYHNTDGTCAIDIAVTNTTTKAQLMQLAWNLGWSIGINEK
FLHLDRRTDHTNLKQMVFRY

>gene_1764|GeneMark.hmm|2077_aa|-|1884|8117 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence
MSSTKWNYYELAVINRDIYKVLNFNEHNYGLEEITKLGTYIKSISGKGQNWNGFFAILLE
KNGKHIIAIQGTNASLGAPITSVGDFLADADLIAGKMPERQFSNLMEFVERVKTEYNIQH
IDLFTGHSLGGSLATLGAIAQNSEAVTFDPVGVKRVITYDFDFVDDSMVTNFVSKANGI
NGINKQFGGAIQFQPNVGEYNVEGLDSMSVSASVPIFYPIGMPFSVPLSLLPNREHALIQ
KILIKAVKYKILFTHSIENMAKMFNKDGSIAVSYAELNSYGGNINEAIHSTVNYAQSQAF
WNHVTKRAHQNPFAFNLSFEELKAKLLNGYLLNEEIIKIVNKEISFYTQLSGTNITDPE
YSIDMDSHLSRTQELLAPIAQKIKSGEELTDEEFYVGSVAQGYFIKKYHHSNGEDHEYN
YNFITGTGEVGKFTNAMLTRNCGTDGAPQAVRKCHYSKIMLAFRDVEASSANPNRALS
DHDQVRAQAFADVGVDQNADLLGFVCALSNNRSKCGSVNEVLSELKPHINITLQADGTS
VVTPKALANFTSEIITAIAAFQETLTDFGLTSQTRGASFVAESADSLAQLSGVDSNMID
RKYGSDDYSDAIRTSVGDTPVFSVRSRNEEVRIPLPGHGSEQKVVMMADPEFTVRMAIS
PVSFLRPEQLETKSVLYSVVAPSTDDSRLLVVDISPEIHDRHEAKSSEELGSMWRDGVAA
YGGHHEVRMPAGILNGDGYVNVRPSSIVTGGWRPGAAQLSDFSTDSFLQQLPGAMMQESP
ECSRSVVMKSRLEFNRCRISAFDQLNIDPLVVDMSARGRSGIKLTHWQDNEVLFDIDGDG
YLEETGWIRDKTGLLVLEDEGVSVHQLLSEHFQGGSYSDGFEALRQFDINGDGIIDSS
DPVYHRLKVWFDSLKDGICREGELKSLTELGKQIILNDLVEVNSERSGNLIKQKGVIVM
EDGSHRVIASVDFLANASGHKYEETEGGIRIASVGRNVRIVENKFFQKLDDEEVERETAT
FFAKEGSPTRLEADALKVDNICASSAGSVLVGGNGDNWLGSDGADQYLGSGGNNTLVIN
EHDRQEDIQGGIGFNTVFINSVAGRYFSLDSSGIAVVYGSRAGDVLDRSTNYNCFVQAG
DGSSLMFGGSAASVLSGGAGDDIITSGSGGGILRANLGNNFLIARGGNTILESGLGFNYL
RGSNENNIFKCNKAGFSICDGSEGKFNALQLAGSIYDYSMEYNEEGHVVRNKNYSEFS
AVLINIHLVNFQDMRNYNFNLILPQKWVMQNDFSNLQLIDASELFSHEFGPRGQQIGFAK
VHKTEGCSIQDEQGRNLADIAEQELFFIERFSLAIDSDHKGPVFIQYTPRTRESRVCF
DTKDGEISNSAISLVFRGDISEISNYFDLLRIDYLRENNYLGQGVNVQVCEQRSDHAQ
GVWSVLKNILPEGRLYFTDQLFSAEHAKMDVLNFSISFHSPIRTNMEYNHAIGYTGGLNH
LDAAARKTVLEGRDGLGLAVIFAAGNERQDGGDANYDLIKSIPSIIVGGISRKSVLGLG
EQPNPEFSSPGSNILTSAPANFIPAVTHGQGNKYGNFYKDSHALVQGTSAAPIVSGIVG
AMLQVNHKHTIYDIQKILAYSSKQIESETEWQFNGASTWNGGGLHFSYDFGFGCIDAHA
LLAQNWLVGNRQYVERKVVFSNGTFHAKQSASFNSSATIDGEIVSTNVNFIKEIDIFN
LKLSLAYDGGQFTILPKVGGDDLSPFTLSYAAMTPLTHFLMGMRIDSQIGCLFENTGAGD
MKFGVVNMTAGVQRDNNTSYIFTDECTKFYDEDRATLAAQNQFNTLNLAAVSYSSRVNLQ
EMVMYLAEQLYRLEGAFHNVISGSACTHITGNEENNIIVSNGSYSEVTLITGHNIVSSSS

QVNSTTKITSGDRADTFVIKRSAGSTIIIEGFKVLKFDTPSEQMYSVNVNLAAFEEITV
TSDLILETEGSDRIICLPDQKVVVKNVDSMRGYNFRFNKDFYIAHEFEEDFMHNNIIQN
LMFGPELSGVDAGNSILASITPEEVGHNLVDAFSGMA

>gene_1765|GeneMark.hmm|213_aa|-|8110|8751 >NVVL01000086.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_26876, whole genome shotgun sequence
MFGEFAKFSMVCAVVCFILVVAFSFSLSRMKEADSWVSFKALFKLVFLVTIVLFFLGIF
LFRGYFSLQKMHYSIYRQKDFNQEVWFEEKEYHPAPGVYGS LN CARGRMYDDLHKNHLK
FLMSKKEIENLLGHSTVKRKYGWLYKYSDCFQYELGFCHQGPPSLTFCRVPFFTSYRY
LVRQGDGGKAVYEDNEERQKIIDKLYNKGEKDE

>gene_1766|GeneMark.hmm|62_aa|+|2|190 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
FCFNTKRYNSLFSRNVSLKIPIVSAAMDTVTEYRLAIELAKLGGLGIIHKNLTNILQCIN
PL

>gene_1767|GeneMark.hmm|234_aa|+|172|876 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MYKSSIRAFVLVAFISFALSGCLPVLFTGAASSVAILAKDRSAGEAASDIKIATAIKASV
RSNFTRLYTAIKVDVIKGRVLLTGMVEKEDDSIEAVKIVWAAKGVVEVINELKLNKKG
FDLIQYTRDMLTTSQIKSQTIINRDIKFINYTIITLNDVVYLFGLARSEAE LASVASIAS
NVGRVQKVVS HVRIQP VAGKTKRGTKENSTKENRLLLEQKDEDLGGQDEGAGDEW

>gene_1768|GeneMark.hmm|226_aa|+|866|1546 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MSGNIRDSKFYQAAYSLCSILLVICLSLSLASCNSAKKKRLTYQTLRDDPHNTHYKGYH
KIGKKYKIKRRGYRPREVRRYNKVGIASWYGSRYGFHGKKTANGDIYNKNLLTAAHKT
LPCLVKVKNLENGKSVIVLVNDRGPYAKNRIIDLSEKAAKVIGMRKGTAKVRVKYLHSE
SKQLLKT LRLKKKPGAKAKRSVRNKKCSVNCYVKLVNLKHRRKRIR

>gene_1769|GeneMark.hmm|91_aa|-|1598|1873 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
LLKIELALKLLTRGISWCTISLYKGINYIIMEKVSYSYTRQNL SKVLNQIGLDSEASCIE
TNYLLKSGGNAKELITGLNEANKCIGTKIDF

>gene_1770|GeneMark.hmm|300_aa|+|2080|2982 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MSSARTDGVPTHTSAENILPRLEQDLREDGLRLTPETLRKIIDNPHQFDDVLEPKMVTEFA
SMTAEQHDSLIDLLDKPHILHTEESRDSHIVGKFKALMTKLWNKATDRVEDALDEAEDF
FDGLIAALKKLASDGVSSLGELADDAIAEHVPEGELRDALSGAADSLEDHLEDGVSKVAN
VAQNGVSKVADVREEVSDGLDVAFQAAGKGAIDDAASMPELSLDREASVLRGEDSGNER
VTFPEGAPGAGDSELPLVFVLEGDAEPAHLSEPMALVPAPGAAADLLVAGDAVEGAADGA

>gene_1771|GeneMark.hmm|105_aa|+|3353|3670 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MKNKSKLLATAFAVAAFSAGSVQAGGHG NMEKCHVVDSHGKGLIKAHKADCKSKHNCSG

NNEAHDAEAWILVPKGECAKINHGDFSGVDKETKDKIETHETDH

>gene_1772|GeneMark.hmm|279_aa|+|3786|4625 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MSNTELGIGLRAQHLEQFVTERPSIAWVEVHSENYSTLGGLDFLLIELRKHYPICSLHGI
GMSLGSASGINAGHLRQTKELVGAIAPFLISEHLSWNTHDKFLPDLLPIPFNDEAMEIFS
RNISVVQDALKRQILIEPSTYFSFTSSNYSEPEFLNLLAEKTGAGILLDVNNVYISGLN
NGWSAEEYINNINPLLKEMHLSGHSVKNLAGGQALYIDSHNCRISDDVWDLYRKALAKF
GKVPTLIEWDENIPKLEVLLEEASKAQEYVNMQSGGVYA

>gene_1773|GeneMark.hmm|268_aa|+|4618|5424 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MHNIAQIQEEMQNAILGREANLDFIEQSAGISTKERMQVHLDTVFSNLTNLKIYPGIW
QLIGEECASGVALAYSHDMKHLVGRERINNFGEHFPEFLRQFPSIKHLKYLDPYAQLEQL
RYKSYSAKRGKVVSLKELQQVFQSDVEVSYKLTNDSVLFKSIYPLMSIQELLENKDSK
PLDLTETKCFIICKTQKKLETLSAREAEWNFLRSLANSDAVGNSVESRVGNTIGKAMES
LPPENIEPELTKIIQLMLSKQMISKIYV

>gene_1774|GeneMark.hmm|165_aa|+|5417|5914 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MFNLIHKLQITAPGRAYLAFTKFADDYLFSLILFMRIWMAQIFWYSGLTKISSWKSTLY
LFEYEVAVPIIPELAAILATATELSAPIFLVLGFMTRLVALPMLVMVAVIQFTYLDRE
HLYWASFLGVMILRGPGIYSIDCIINHKTIKYKRNSGWSHLKPK

>gene_1775|GeneMark.hmm|526_aa|-|6007|7587 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MVERNKASKAIIILSRVSSKEQEEGYSIDAQKFRLEQYCIKRGLEILKTFEFSESSTTGHR
EKFNEAINFAKEQKEIIAVVSDKVDRLQRSYKETPLLNDLIAREKIELHFYTENCIIHKY
STSQEKMTWNMFVMMMAQSYVDSLDRDNINRSIAQKLREGEWISKAPIGYAHIRAERKVGSR
KGKIVVDEDRAPLIKRLFEEYSTGAHTLGELVKKTKEWGLYNVAGNRGQLSLSHIHLRIQ
NPFYYGVMRVQRTGKEYPHIYQPIITKELFDRCQRVRLGWKNKPFKWWYKEYIFRGLIKC
GATGRVVTSDTKRKYANGKTGEWTYLRVWNPDPNPKKAMFVKEEKILKKVEKVKSMHLE
SAELAKAISHIKTSSDAERSFHKNQIKELHSAHTKTKSRLDRLTDLFDGDIDKVSYEK
RKQLIQKRADIVREIENHNRTDDKRANYLIHTIELASRASEVFKGSTTSEKRKLINLVLS
NLELKDQKLSYTLHSPFDQFIKTAKTREWRPLRESNPCLHRERVAS

>gene_1776|GeneMark.hmm|63_aa|-|7812|8003 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MNNATQDEIFNDIAAGIRKSSKTTMTEAESRQAARRLIEFCRIMIDVQRRIDNDKNDNNN
KVS

>gene_1777|GeneMark.hmm|81_aa|-|8024|8269 >NVVL01000087.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27198, whole genome shotgun sequence
MKLELFMKITEMTIPTLSKFLGISQTQATQYLYKNTMPRPENMQKIHSKTIGLVAANDFY
GTTPEKLAIEILLKDKKITIPK

>gene_1778|GeneMark.hmm|256_aa|+|1|771 >NVVL01000088.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence
INIMLKKALVTTLITLALITSGCASDPGSPLKRSANNKLFDRKGFQGEKRAPLYNKKY
ISKAKRNILAGDFDEDDLEDDNLYENTNISQENIEMYREMIEEDLANMKKSKKKRKRK
IRPFPSISRANSKLTSPDHAANLELRAELQQIKALLHEARKEFSNNKCPTIADLKRESAK
LDKKAQKPAAAPVPRSVQAGVIPPAPAPAAPPAKQDPAMQASLKAPASLPSPSPSDAA
PSDTTTPQANNSVKAI

>gene_1779|GeneMark.hmm|27_aa|-|1228|1311 >NVVL01000088.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence
MVTSEFVDVIAGAGGFVVDVAGVGLVD

>gene_1780|GeneMark.hmm|209_aa|-|1379|2008 >NVVL01000088.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence
MGYSESYPNKEPATPFLNLDQLSALRAVFTEEVTSFKDGM TTLQNALRLFQEYMIGAGKE
DAQRQIQDYMHVLNQQMKYVEFFSEVGG AALPTHEILSSALTECREMLHANFAYQVKTVE
LEPGREVAAYEKAVDYLQQCPDSQVCKTKLAQAHVHMAKLANDDTTAAIEHYVAAIGYDK
TLAEVYEKLGQLFQQGGEYSKEASIAKQC

>gene_1781|GeneMark.hmm|365_aa|+|2203|3300 >NVVL01000088.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence
MAKASNSTIVQSIHPVQSIQDGNPELFTQRLREYQQNGSFDCELTNSIISAFMESRNAK
FFSPIENARSLGFFGSHEIISQVDFLAKNPNI DFAISLIEETVETGVFQQIPTLF TTK
SLIKIQDQSFYECCVDASFVKVLINPDIYLGTKINSSHLITLILREAISNDYFDLIAKIS
SSVCLSNPTLILNSDTIGSII EQQQNGDQYLEFAHTIFIPLSKYIQENKPEQSLMELYK
NLKLLVQQSLPECTDLKTFEPNEFSTVYIVGND SISDADLSEFANRLGLDSTLGVVVLGD
LTNVTTEGIKLLKDALGNHDAILQLSLDLPALVERVKLISSTGEIDNFPEDLIEFHNL
LGNVE

>gene_1782|GeneMark.hmm|799_aa|-|3355|5754 >NVVL01000088.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence
MSGAQIALRQQNFLDSMRDLYQAGTNHYHEGKMDEAEQYFAQALKPVFSRYLMADSPFNI
EDIKEEIFAIYRLGKTYLHFNNSSDHYLKTA AIFQYCSAFVKKHDMDSNISGVHLSSD
DYPRYLSNIACFLEKQLLHTLCQEDITATLPRDYFYTNHPQRITRYKAGLEQVRLITKKE
LESISSIENISERAKRVEELYKNIATFFVDES NKGFIQQLLDEC FDDLGLPNGCEY AIS
AMGSLSLGTMTPWSDLEFIILINEDNEGYKEYFRKFTVLLNMKVILLGETFLAAAGIKIL
NDYKSENPSDICFFDNVTKGGFCFDGVPVWYACKT PLGRQGYSNHLDYELILTPRQMF EFQ
SDSWFESDRHLVQALRSVSLIASSADGKKLFDDYRSLLRDMTAEKHCSLQARSLQLLQED
VGKFSLKITEEEEGSPLRVKQDIYRIVDRVIVALFNYYNLM PDNDQPALTIWQMVD RMVN
ETIIPYQAGQYLKEALSIAAELRLEVYSEKNAQ NEMIPDSILLDTKLLHHFYCIILNMQD
VIEYVSGQDSGELVFFDDSHYIKGQVHARFQEYEEAFREMRLAFNTMCIPQKTAPEICY
IVQNLVLLSSKIKDPKTALSMIDIQSFQHIDLRFVTNSDAFYHMLLFEQLADLGS LFFR
CNMHAEEIIYKICWLLSNQYVYCNPDFHGTIKTNLLGM IKELANTDNHVSVAQEAIYCI
ANFQFILSKLYSNGQYAESISRANQALQIFARLGGDLSAFDVDKIHYKLEAIYYCLEN D
AELKSLGDTQTVGDDWLHE

>gene_1783|GeneMark.hmm|713_aa|-|5778|7919 >NVVL01000088.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_27253, whole genome shotgun sequence MFMSLHNSLSDKYKLYTRYLEKITDIRFTIREIDVIACIIHNRGIQNISSLISARTVG AHYINIRAKLGYIPKDSIIDIEKSGKLQYIQQYLLHLVAQSLFEKYLCKIAAVVNRTEI ICNADYNNMNEQTKKLLSQLKYFLKLANITLTENKDTSGCMYNICVIDAPSTLENNHNLD TKEFNIALLLDENVDKSTLVNLEYIDFINDHYSAILSIAKIINKPELLQLTKKFKNEYQ TLQSSWNGSKVQNIASENNTTSFRVTKKLKLAVAAIAICLIVTLSVFLPKTQPNIVKLN EQLADFAMHFSSDNISTQAKRKENYRLLSEVEKIAPLFDNQQVYTYFSSKEVPYELMNC LYVLHALANQYTYQHNYKKARKLLEHIKIFAEQYVINKSSVGINFNELSKEEIELELNI IQDLPEIYTRIIYLLGRTYIYQGNVSVQYFKLASYLGSKPKTFEGYLSQRSGLVIRRE QEIDNDIENGDFQAQAVKKLHAAIKSMSELREDNTAYKINYHPGHTNQITIVPKNDSYSRVY CTEQIVKYYARLVMITSARQNEKYTNKISSFFIGNKSLSDLMDFAEKNIPQRSAAVYIS LGNTLLKLYEKHLSFATLKTAMSQKLIKITPKTDLDFIEKLFKLAASKSRNTHYTKADSYD GLARVVEIKLQQEEINVEQKLMLQNAIKDLRLKRDNINQKLTRMNQELRQHNL

>gene_1784|GeneMark.hmm|654_aa|-|2|1963 >NVVL01000089.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence MTKATGTAIGIDLGGTYSYCVGVWVWVWNEKVEIIPNDQGNRTTPSYVAFTNDERLIGDAAKNQ CARNPKNTIYDAKRLIGRKVGDKTQVSDMKLWPFKIEEGTAGKPQIVVQHKGEFKFHAEE EISSMVLKMKIEAESYLSKPIKNAVITVPAYFNDSQRQATKDAGAISGLNVLRIINEPT AAAIAYGLDKKGAQERNVLIFDLGGGTFDVSLTIDDGIFEVKATNGDTHLGGEDFDNRV VEFMEDFVKKSGIDIRGNDRALRLRTQCEKAKRILSAALSAPIECDALAEGEDYNASI SRAKFEELCIDLFRKCIAPVENVLKDSQLSKGQIHVDVVLVGGSTRIPKVQMQMIQDFNKG EPNRTINPDEAVAFGAAVQAAILTGEDDAQVKDLLLLDVTPLSLGIETAGGVMTTLIARN TTIPTKKGQFTTTYADNQPGEIKVYEGERMTMKNLILGKFSLDGIPPAPRGVPPQVEVT FDLANGIMNISAQDKGTQKEQKTIITNDKGRLSQEEIKMVDDAEKYKDADDLVKKKIE SKNALENYCFMSKNLNLNDEKDKDKFTEEDKTTITTEGCEEIKWLEANVEAEATEFEAKQK ELEGKFNPMKVVYQAAGGAPGGMPGGMPGGMPDMSGMGGMGGMGGMGGMGGMG

>gene_1785|GeneMark.hmm|102_aa|-|2082|2390 >NVVL01000089.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence LVFHNFTRLGDRISDVLKYLPVVPKVDKRTMTFANYSDYISFRHHVFVKDDHKTVKLKEIGPRFELKPYQISLGTVDMMVDAQKEWVLRPFMNTAKKRLAL

>gene_1786|GeneMark.hmm|37_aa|+|4122|4235 >NVVL01000089.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence MKMKCMKMIQHLQKIRKIRTLVIKKEEVNLLMKKLHQ

>gene_1787|GeneMark.hmm|88_aa|+|5409|5675 >NVVL01000089.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence MMLLSKARLKVMLPHQSRICKLKLQKPKVQRMIFKMLKKIKPMLLQLLKHLLKMLNL LKMNPKMNPKNLKNPRLSPKMSQRKM

>gene_1788|GeneMark.hmm|48_aa|+|5900|6046 >NVVL01000089.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence VDAVKETAKESDVEEGKGGSPAPASDKVPEASQDDIKADASGTGAAES

>gene_1789|GeneMark.hmm|68_aa|-|6194|6400 >NVVL01000089.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28651, whole genome shotgun sequence
MTPRDLDAAVPLFPVKAEEDESDVRETKLHRLGYLLKYFARNFLSDKIVIFLLVMITIA
FIAIIVCS

>gene_1790|GeneMark.hmm|75_aa|-|217|444 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MKKDIHPAYKELTISIGKDKFVTASTLKSGEILMDVDFRKHPAWNKDGHAHSVNSQNKTVS
DFNKKFGGLSFGMKK

>gene_1791|GeneMark.hmm|100_aa|-|441|743 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MSRKCELTGVGVQYGNNVSHSQRKTRRRFEPNVKSVVYSSELTGEKYRMKIVVKTMRITIE
KFGGFDAFMLGAKDSLMSIKAKKVKREIAKKQTEKTEASA

>gene_1792|GeneMark.hmm|468_aa|-|852|2258 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MGIAFMSLPISKVAIMQNAIIPDHQDRFAEQFAHITYLINNDRLGDAIDSMLDLHYADLA
DFLDNTPHKLYPVIFPAITSRLNPETIACLSANKQPAIESIGIAKSAKLIDDLIEDSI
EIAEALSPDLKDALLAQLSPAMRQIIIEGFLYPEDTVGRALEKDFVSFGQHWTAGQAIDF
IRRSDISADFHAAIIVSPRDKPVGITILLSTLLKSERNTPLEKIMSREFKSVDAHTALDDL
AFIFKQYALTIVPVITRQGKLLGTISIDNMLYIVEDQAESELLHLAGIHNTDIFHSLRRTT
VRHRFPWLFVNLIACLSLVINQFSGTIAKLVTLATIMPIVASMGGSAGTQAMTVTIRA
LGSREITSSSTRVVTKEVLSALNGIILAFIGMMLTYLLFSDIYLSLVFAAAVVINFTL
AGLFGSSIPIMLNNMEIDPAAASGVFLTCTDAIGFFSFLGLAYFFLV

>gene_1793|GeneMark.hmm|277_aa|-|2594|3427 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MSNKQTNTIILALMSFVLLVTSVFTGYRYFKWRLSYQRLAHEYSYRGEVIHPKTTQEII
DTTFSGDWMVQEIQMLKDTTELFKFEIKYAVESGTALGVIRHGGFIPWDDDDVDIMLMQ
EDEHKLIELAPELEKLGKILWDEDVYRIFLPNKLVHPMSYTLPAIDINIMFENKEKNT
VEMVNWNMRKLYSKVWFPRDKFFPLKKYKFGPIEVYGPSDIEWHVKHYYGKNALKEIRMD
PKIWLKGKHSNIITVPSVPDVFVKPALPKKPLLDNVN

>gene_1794|GeneMark.hmm|291_aa|-|3467|4342 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
LYCLVIKTTTKYCIKMLKQTNIIIRILSVVSFLLLVGCIISGYHYFKWKSLSHQATIQEYRY
RDKLAYPKTNQEIIDVTFNSDKMVQELYQMLKDTTELFDFKFEMSYAVEGDTALGIVRHGG
LLPWGNDAAIMLMQKDESKLISITSELEKLGKIIWDKDLYRIFFKSKKGYVGRRYTLPV
INVSIMFENKKKNIVEPLNWKIKKALPTNWLPKDKFFPLKKYKFGAIEVYGANNIEWYVG
HRYGKSVLKEKIEPKFWLGKHSNVITVPSAPDVFFKPALPKEALLDRVQ

>gene_1795|GeneMark.hmm|168_aa|+|4439|4945 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MPQKTIGIYPGTFDPITNGHADIIARASKITDELVLAISESTVKNPMSIEERCEMARIY

LDKYNIASNVKVMPEFGLLAKFASSVGAQFIVRGLRAVSDFEYEFQMACMNRMDSTIET
IFLPASEKNQFISSRLVKEIASLGGNVSEFVIPEIEEKLIKYYNISNE

>gene_1796|GeneMark.hmm|365_aa|+|4938|6035 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MNNAKCSLQINLQTIKENYIALRKLKLCIGSEVGAALKANSYGLGASRIAPVLQESGCKHFF
VATCEEGVDLRQTLRGDANIYVLNGVFQNELEYFINHNLTPVLNNPEQVEIWQHYYAARHG
RRLPCFIHIDTGMHRLGFSSAEASELELDLLRNLDILCVMSHLASAEVDNPFNKQTLE
RFTQRSKAFGDIKRLANSSGIFLGRDYHFNLRPGAALYGINPAPYLENLTLPVKNPKLS
APIIQLRDLPPGESVGYNSTHTNRRGDSCSIATIAIGYADGLHRALSNGVLYINGFEAP
IIGRVSMDLTAIDLSNIPKNDVFLGQMVEVIGENSSPDELAKFCGTNGYEILATLGKRFK
KIYTG

>gene_1797|GeneMark.hmm|241_aa|+|6129|6851 >NVVL01000090.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28652, whole genome shotgun sequence
MLSSVRYIGNRSINGAQRGLVLTMFIAEVMAGMAKRPLYLKLIGRQLITIGYFSLPIVAM
TALFSGAVLALQSYTGFSRFSAESSIATVVVLSITRELGPVLAGLMVAGRVGASIAAEIA
TMRVTEQIDALYTLSTNPIKYLVPVRIA AAVVTLPCVLIGDVIGVMGGYLVSVYKLGFN
GTNYLINTATYLESIDVISGLVKA AVFGFIISIMSCYHGYHSGKGARGVGAETTGA VVSS
S

>gene_1798|GeneMark.hmm|90_aa|+|147|419 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
MTALSINLPDSLTKESTRFAKELGMSRTEFIKRAIHELADLKKKQEEAKIINSFAAMKK
SKTYIKQTIQTIEEFEDILPSEQVQWWKKK

>gene_1799|GeneMark.hmm|430_aa|+|871|2163 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
MIITKRKFFIVWLLGFMSGFTLMISGNTLNFWLAKENIDLQITIGVFALISIPYAINFTWA
PIFDTVKLPILNKLFGKRLSWLLLIQILLSSAIYVMSTLSPTYALELLAICGFVIAFLAS
AQDTILGAMRTEMVDKNRQGEIAGMYVFGYRIGMLASSSGAIYISQYVHWGLVYELFSVI
TIAFPLILLFTNDLLPIKQEFTPKVEDPNTKPALQKSALHRKMIDFFSEILKPVGKPKY
IIFVLIFLALYRLPDNFISMMINPFLHIGYDEFEISTAGKLFGTSAAMIGGFLASYIMK
KKNLYDSLLIFGSVHAIHLFFVLQELYGKNLYMLFVVIGFEGVSGGMSMAAYIAFIASL
CQGKFRATQYSFFSSMMGFSSRSIFPALSGYIVSSFGWTVFYLFTTIATLPSLMMILYLEK
LQKQNSSEK

>gene_1800|GeneMark.hmm|459_aa|+|2160|3539 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
MIDIIVFSYLMILLFIGVYQRSKLAGFAGFARIGGKLQKNRLLIVATIFVSSIGGGTTF
GISEKAFAENIAYSGLFFAIPVDILIAIYIIPRLAKHYGAETIGDIMEVYVGKPGRYIA
GFSAILVSVGLVAAQISVSGRIFEYILQIEYVWSVVFYSYAIIVYTTIGGFRSVLFANLL
QFFAILIAIPMISIFGIYQIGLDNFTQLVPASKVSFFDNPDLLSTTIAATLGFVMMNMF
TFIQRALINKDAKATSRAIYKSSIIAIFLVFITLNGLIAFIKYPDLEPSLALPYLIDHM
IPTGLQGLVVVGLLA VMSTADSDLNITSITIVKDFLSPIFSVQNQDKMLMLARVINIIV
GSFAIIIALCFTRVVDLVIFIAGFWSPVILVPLVLALFGIVISKRGMICSCFSGVASFIL

WENYCASEHCFKGVFVGVMMHLFVFSIWRIYTKRNSVIS

>gene_1801|GeneMark.hmm|175_aa|-|3532|4059 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
MSGSDLELNKMAAAILVASLIAMIVGVVANALYKPKLEVAQRGYQVEVAEEGTVAEATKA
SAEIVDIKILMASANA EAGRKIFKKCVSCHTVNKNKSNKVGPNLWNIVNAQKGEKPGFAY
SKAMLASGGSWDEENMFAFLTKPSKYLPGTKMSFRGIKPTQVADVIAYLQKEAS

>gene_1802|GeneMark.hmm|341_aa|-|4091|5116 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
LSIKILGLESSCDDSA AAIIDSKLNILSNIVISQNEHELKFGVVPEIAARSHLANLETA
LQRSLTEASLT LGDIDVIAATAGPGLIGGVIVGSMYKALASVLNKPFI AVNHLEGHALT
ARLTDKIEFPYLL LASGGHCQFVAVMGMGKYKILGQTLDDAIGEA FDKVAKMMDLGFPG
GPAVEKMAKDGDSARFDFRPLFSRQNC DMSFSLKTA VRLQIEKLLPLKKQDIHDIAAS
FQQTVCDIITRKTEYAIREYEKLT SKQIVISGGVAANNIR SALT ELSASLGYNFVAPP
TKLCTDNAAMI AFTGLERFKAGTINGMDFKPRARWSLEEVD

>gene_1803|GeneMark.hmm|394_aa|-|5125|6309 >NVVL01000091.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_28992, whole genome shotgun sequence
MKKYSLFIAIILNVSLSYADSVLRKNVNDATSEYLS THFMNGVYMFCDENGLITQGAKG
FYSLENKKLSTSQLMPIASATKTMTAASIMKLRDKLLNMKDTVAKHLSAESGIWKEGK
LADWASKITLHNL LTHRSGLPEYFMKVKVDLTKTHDEINKDILHFLASNELKFKPEAKYQ
YSNSNYVLLGLIIEQVSGQKLS EFMQQEIFTPLDMKDTKIPTLSEALEHQTTPESTIYPS
RYFVTPTGKKPMFNKAMSKYPMMPFS DGGVTSTTKDMTKWLKALHSGKVVSADSYKLMKT
RHYEIKHRTGVKNYMGYGYMIAELKNGDIAYHHPGNAVAIRSESGYIPAKNLYFTVLSNV
MDYIPPQMKGKIDKTKSVNQLDIRYFMQCIFNTI

>gene_1804|GeneMark.hmm|240_aa|-|2|721 >NVVL01000092.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MCDFCVSGKIETYEQLVSGSAEKKEVFKLFD RHIIHFDNVLDLCVIDDIKNPTIRDVITKL
YPEGWKDIFNDNLYELKTICDYISSEAKETQIFPHFEDVFKVFD MCSPEDIKVIIGQDP
YPRLGKLG LPLGTGLSFSVRVGENIPRSL SNIYNELDRSIDSFVKPKHGNLENWVNQGVF
LLNKSLTVEN GKVN SHKRVWNNFTSNI IKYLSAFDEDIYVLWGKDAQEMNKTYTKGVIF

>gene_1805|GeneMark.hmm|536_aa|-|750|2360 >NVVL01000092.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MDVLECNVNKITQMVGIPVVIKPVDAKRG NVLFIGTNDGHIFVYDESSKKKTL LLDLRNVI
KTPSFCKMGLLGLAFHEDFDKNGK FYVHYS LDTSNGISNGIDVEDVDVNNLSSLFQEWSD
INEYNHIDVVEEYIQDCFCDNPKCVAEKS TLLKIRQPFENNGSDSLLYKEGKLLTLG
DGGSSYDPFNLSQNNNSLHGKIISIDETIVWDET VSIGNIYELDETQCDKV TILSKGIQS
PSSLDILDDMMYLV DNGKVVNELNVFKKFGN NFGWRPFEGILPTLHMSNIKNISPTYNSG
INPVDFKVDEVVWDVECDKGGVIHLDIAPGDY LHFKSSNPCNVIETFSNYENKKDPIIDS
EISIINESILLECTGDFYFKSFVPGGDNTSLSVSVRNDILRKRKVNSIKLENYKDKLKSS
KEVPIFTVAYYNESLSLAPKLKQQCDTYILP SENRISSGKYYKGELGHIKDKFVFDLLK
GIYTFSLCEPHIQKINVKIEGDFYTS LGVNDKRD TLYIGTSTILDSKAIGTVYSLK

>gene_1806|GeneMark.hmm|507_aa|-|2366|3889 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MDRIGIVFVICTFIIISIFYIKIFSKRHLGKIVVQMGKCKSNSLNCRDLGTRTITSTCVS
DNQNDTCGNGMFVSDTITTSETCEPTCRKSFWDHEVGKCTVKDNLGCVDLGTVGNRTR
NVECVRGDDFGINTCTSLELLEHTGPLGLGKIKIKLYNIGDVVSMEEECTNYTNKICGK
WKTNKNNIISPCNLGKQLSVHKNCITGVSKPFDSLVEGYVEEDMLCTKTIGNVEVIRGND
VCHLVKELISCSSTGTTDPVDIRNGTLPLDFTPTICRPTDDIPKCVRVCRMYPNKNINVGIF
SDITGAMFTLRKIQGYFTAENLPIDVDGKLEDTKIVLIDDGTGISSLCNSKSLKYNTEY
NTSIMFCLGVRRYDGNITKAQISCIIGGSYVGVLSVNKSNEIWEQAYNIYGAPGSTTTD
AYMFTIKNYVKENDLGSNHMGFGNNSTYKGMCGIDLKSNTGGNLYIKDVRGKAHELNHIV
ALIINIESVLNRSDIFTECNLLYKNNN

>gene_1807|GeneMark.hmm|78_aa|-|3946|4182 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MRGWKISHVLYFLAIIAALVGVILGVGVGIKNGSDLSENDTHNITRANLFFLASVAIGII
AMVQMSYDKHGHRLVTA

>gene_1808|GeneMark.hmm|169_aa|-|4204|4713 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MGACNIKSAFQSEQSRVTMIYENAVTLDTTSAYNIARSDIESILNSTSYTNLEVPLGDYP
TGMDRLVVVFPVVDVSVVQKIVTIQILYKCDTTNTHHIFHMTLLPGPNHEAITLIPHRNS
FEETKADDNLHDHSTLNTVSTLKRVDVNTCYRPPKCKKYCSGCHKYHSNK

>gene_1809|GeneMark.hmm|205_aa|-|4725|5342 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
VKFGTTGKRKFRKTRKMTHTNIKMRKYINIKWEREKQYRAGVLPYYKSEKGIGSQKEVIF
IMGVDSMYGNYTDFGGAKKLGRNNKRIEKSNETAFRELEEETLGCIRKDLDFNALVVS
SDQMLIVLAEVKISDIQDRNNTKKIKHIFNSFDLKLANEGSPEVSSLCEIPKDLFIYSML
SDKSTVYPPVKNLLSGKITHISKIK

>gene_1810|GeneMark.hmm|58_aa|-|5344|5520 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MKKITSVKEATSQETLFYILLGENYARIQGVPEEIDTRSIGATLWHFVIKKQFEKNS

>gene_1811|GeneMark.hmm|133_aa|+|5873|6274 >NVVL01000092.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29265, whole genome shotgun sequence
MPNEFKEMFGDSALVEWTSYGDCGPDVPLLVAEAGSDVAFGYKCGTGLTNPVLLSDCTIK
VSNVSGKFAIKYLADFAGWVGMIIAKCKGCDGVSTSRFFTLGDPHTKHNRDFLCKKDS
PYGTELDLPIVVS

>gene_1812|GeneMark.hmm|126_aa|-|252|632 >NVVL01000093.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MIKHIVGMSIYQCIIFTITLAGEYIIPEDPDYIVKNLDNPGFVHPGRLYKWNGDDLYNV
LLPIHGPSRNLTMVFNTFVFLQIFNMINARKINDEINPFADIFKNKMFIGIWLIIIFLLQI
VLTQFT

>gene_1813|GeneMark.hmm|136_aa|-|663|1073 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MVTGLKQFGDTVAVTGDGTNDAPALKKADVGFAMGIAGTDVAKHAADIILLDDNFASIVR
AVVWGRNIYDNIRRFQLQFLTVNVVALVVSFIGAAIMRESPLQAIQLLWVNLIMDSLASL
ALATEPPKDTLLDRPP

>gene_1814|GeneMark.hmm|44_aa|-|1176|1310 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MVTGDNKITALIAIKECKIVEEGDNMEMAVMEGKDFYEVGGIV

>gene_1815|GeneMark.hmm|49_aa|-|1329|1478 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MGEGGATHEDDDVEGVQKVVEKDGLVCLALLGIRDIIRKEVPGAVAKCR

>gene_1816|GeneMark.hmm|132_aa|-|1479|1877 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MFESISCNTVGTVDSSATEKAMLMKMLKFSVNVEDSRATHLGESFVRFPFPSKRKRMS
VANSISEQRYGYDKRLHIKGA AEIILACCSHYIDDNGAEQEMTASIKDGV LGVIEFFGTQ
ALRCICVAYKDI

>gene_1817|GeneMark.hmm|119_aa|-|1956|2315 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MLFAALTVLVLFIRFFIETDYDFGDKFGTYLGDWFGFLIIGITIIIVAVPEGLPLAVMI
SLAYSVRKMLAEKNFVKKLASCEIMGGANNICSDKTGTLTMNEMSVTNLWNGATQGTPD

>gene_1818|GeneMark.hmm|72_aa|-|2457|2675 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MPVDGVCSRGRDIMTDESAMTGESVELKKHTLDGCFRRKEERLKELEYSKAAQLDSHSF
PSPIIISGTQVQ

>gene_1819|GeneMark.hmm|75_aa|-|2943|3170 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MQLTSKRGMAIMATTISLLHREPVRTKDV LHIAFCKFFCAAMNDLMLKVLIVCAIISIV
SMIFEADHRSTGKFE

>gene_1820|GeneMark.hmm|54_aa|+|4633|4797 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MQELEKTHQQFDSSQVASVKTSEISSPTVDSGVVVPKIVNSNFHVPEPKKADTLGS

>gene_1821|GeneMark.hmm|40_aa|+|5542|5664 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
MGDGVACRGGVMAEPEIFEFTITKADKMMIIASDGVWEFL

>gene_1822|GeneMark.hmm|46_aa|+|5713|5853 >NVVL01000093.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29274, whole genome shotgun sequence
VYPFFEKRNAEGAAEALVRESFKAWRREEDVIDDITCIVIFLDVKM

>gene_1823|GeneMark.hmm|967_aa|+|329|3232 >NVVL01000094.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29280, whole genome shotgun sequence
MFGAQISLDMIIVIGFLVLTIVGMGHGKNVKTIKDYALGGRNFSTAALVATIVATWASG
SSFFITMSMTYSDGLYDTFAVIGGGISFLIEAFFIIPRMGEFLGKVSIAEAMGDLYGKKV
RVITAIAGTIGAAGIIAVQFKVFGNIFSYFLHIPAYVAIVAAGFIATLYSAFGGIRAVTF
TDILQFLAFGIIIPVVGFIWNAFYAEGLSFDQAITDPKFNLGILLDTSNPGFVGMIFMF
CYFCVPTMSAPAFQRVAIGRDVAQVKKAFIAGLIFIVIQVSAWIPFLIYSINPSLETS
HLLGYIVDTYAYPGLKGLIIVAIILSMSTADSRINAASVLTNDICKVFAKLRRELLI
TRSFALLGAISIVLALIEDLIGVVVFANSFYPIVTPPFLTVFGFRSTSKSVLIGMA
AGFATVIIWKMLPISFATISQKMVGVLFAMLVNVIFLIASHYLLRQEGGWVGVKDTSYID
KQRALRKKKWAVFMQKFQNFRLVKAITTAPLPSETRCVMTGLYFIFFTVTIAYSTDIDTL
KDNGLNLVLIYQIMIATGTVMAYPIWPMNVKQKTKNMIIRIFYPIAMFYMMVFFSTFFV
LLSDTNTLHYMIFAANIITLIVVMSWQAGTVMVIVGAYLAIQFYKYMEIEHLDSSIGSP
QFILIYSIVFIGSALMMFFKPKQEDLEQREREISMLSGKVGSLKTKIGTLDNELLGMSEQ
VTHYSQRASDQALEIERLGAISQKILNNVNHRLPVGVMNFAEMMRDGLGKLPDKQLR
MISDEVYDNSNRLSTMILNMLDLATLDANKIQLQKREVNFSDLVVERLQICRKIYVGEKL
LKFKLNIDPMVVLSDVNYIRQMVDNLIINSINFSKIGLITIIVNRDGGKAFNFIQDQGI
GIPITEIYDVFTPFKMGSNTEGKAEGRGVGLALCKAAIEAHDGTIQVESRGVGVVFRVKL
PFTQEQR

>gene_1824|GeneMark.hmm|135_aa|-|3253|3660 >NVVL01000094.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29280, whole genome shotgun sequence
MGVVIDTSVLIAAERQEIDFNKWQKYDAAYISSITITELLIGVHRAKSSKIRVKRSAFVE
HIISQITALVFGEEEARVYAQILDDLYKKGITLGTHDMIIGASAIVNGYPVLTMNEKDFK
RIPGLEVLSSLSKEIR

>gene_1825|GeneMark.hmm|92_aa|-|3651|3929 >NVVL01000094.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29280, whole genome shotgun sequence
MTKLITVTDMIRSFSDIVARVYYKGEIFDIKKGHNIVARLSPAKTRATIGISELNNFFKE
APHLSDDAEDFENTLKETRLLKDSGASMGWE

>gene_1826|GeneMark.hmm|649_aa|-|4044|5993 >NVVL01000094.1 Rickettsiales bacterium isolate NORP64 Contig_source1382A_29280, whole genome shotgun sequence
MHQIIKVLLPQVCLFPLDYSSDTHNIGDLIVVPFRNKELTGIVWEIGCADSGKALKNIC
SPPLFPASINPPMIELITRASSYYLADLGTIAKLVLPVNINESPLKIKTHDEQASTPRAL
PPLTPSQEALGIVKASILPVVIKGVGTGSGKTELYFHAIQEQLALGKQALIMLPEIALGS
QIIARFTERFGFPAIWNSKVTKAQKKQILRGIISGSVKIVIGARSSLFLPYKELGMIVV
DEEHDSSYKQGEGLYHARDMAVLRGAVEGCKILLGSATPSIESLYNVQIGKYQLATLND
RWGAFPLPDVKIVDMRNEISLGHNCYLSEEATLAIGKNLAAKNQTLIFLNRRGYAPLMLCK
ACGYRFDCKSCSASMVVHKSSGRMECHHCGAVSRVHDKPCDCQEENTLTLGAGIERVAE
EVSNLFPNSNTSLVSKEEFSCLEKMKELLSRMESGEIDILIGTQIVTKGYHFPNLTLVVV
ANSDIGFMGGDLRTAERTYQLLHQVGGGRAGRADKKGSVLLQTYYPEHKVITAIASGTEDE
FIRQEIASREQAKVPPFAKMAAITITGKNPARTLIAAKDFVAKAPKSTAQILGPAAEAML
KLSGRYRYRILVIADKKFNLQKYLTLWREHAALRSTYQLKIDIDPQSTI

>gene_1827|GeneMark.hmm|118_aa|-|6037|6393 >NVVL01000094.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29280, whole genome shotgun sequence
MKNSEVKEDFKSPYMARVAKRLRVLMTDEERIEYHKYLKESAVQEDILHAATERGREG
VEEGIEKGREGLSEGAKLAKIEVVKTMLMQGLDVNLISQATKLSIDEVKALRSHKVT

>gene_1828|GeneMark.hmm|27_aa|-|3|83 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MDLATYYLRIQMINLFYDNNKLGFWGF

>gene_1829|GeneMark.hmm|213_aa|-|250|891 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MPTAGSASKYEAVAGGGDKVTVEVADGDKDDKGEKDAEGADTKKGDDKGEETPDEKKLKK
SETNHYGGILDETEKEVTVVGPGACNAFLWKHRVCNPFATADPIFRRFLRAIFFGGQFWF
IFCVSGLFVWVNDVFSSENEGVPMPLEGGFKFLIVLIIIFVLSRFFLWMVEGLNRLDAVSF
LMRGLVTFVTITIGKSCYFNLKVFATMESFTA

>gene_1830|GeneMark.hmm|168_aa|-|1174|1680 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MSQIAQSSCANAELEVEGSSCTAFESTSRTVSSFLDRSTVGETLINVKSPNLVAIADSGP
IENARRNLEGEQLQVILSENSIPAECDSPIITVIAVGNVISLLDKTLFDIEIYGKNYGP
KGVGVQASLSCIEFENSQYVITPSSIVDVTTIKLATLPTIDNYYTASAA

>gene_1831|GeneMark.hmm|63_aa|-|2232|2423 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
LLEILQEEQHKFTLHHLQQLTLVSAQSQENPGKQDSRLMLDLSQRLIHVFMGIIQNLVS
KII

>gene_1832|GeneMark.hmm|102_aa|-|3268|3576 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MTELNDVTLTDNINTVLGNAANISSVSLDSGISTSLSGRDQVFGAYTVDYLGRKVLASKL
VTFSNNSPVIYIDAAYFVSNTQDFTLTPRVTPSECSGAKTQ

>gene_1833|GeneMark.hmm|53_aa|-|4233|4394 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
VKFATQITTWDKMASVMQHVLVITMVVYRLQDLSIVQTVQANAQHASMLVVHP

>gene_1834|GeneMark.hmm|32_aa|-|4416|4514 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MKPIQLPRKLALHALPIPTSQNIQAQLGAQAIV

>gene_1835|GeneMark.hmm|135_aa|-|4935|5342 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
LLRLEHAMLTIQAQMAFMQMVKTVKPVLPVQHVKPVLPVLAQLNAQNALRNIQMLTEIVFLKSN
AATFHKNSPIEFVLISPHVAPTCKLIYQGTVYLIHVVTMDGSKVLIFVRFVTLHVDNVL
DQTLTNALAVTTTTP

>gene_1836|GeneMark.hmm|58_aa|-|5343|5519 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
VIFAQMDILDELTEPVPLLAHQELMTLTVKYVKDVMMAIVKLARKTQLSAFSAVMLTNS

>gene_1837|GeneMark.hmm|27_aa|-|5676|5759 >NVVL01000095.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29500, whole genome shotgun sequence
MVVQLVLEEGTVNALLAPLYGTLQJSY

>gene_1838|GeneMark.hmm|63_aa|+|1|192 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
VLLPSLFSLLFYATFSLNVARYQMTALPGFSIAFAFFAVWVRGKAHNWSSGRRWTSAKEK
KNA

>gene_1839|GeneMark.hmm|332_aa|+|185|1183 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
MPNDNMIQPTAAYNHARIAILLPCYNEGKAISHVIASFRSIVPSAQIVVIDNASNDDTAE
KAMAADAIVIREDLPGKGNVRRGFSEVEADIYVMADGDGTYDARALPQLINKLVEDRLD
MVGTRAKEKEQAAYRSGHRIGNRLFNTVFAKLFGRTRFDIFSGYRVFSRRFVKTFPAIST
GFEIETEISVHAIMLRAPVAEIPTSYGARHEGTESKLRTYRDGIRLSKILLFTATHKPF
VFYGLIAASLAILSVLLSIPLILEFLETGAVYRLPTAVLTVGIMISAILSFTGAILSNI
GIGQWEVKRLSYLMHTDRLDAIRAALTVLREK

>gene_1840|GeneMark.hmm|132_aa|+|1180|1578 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
MINRSLIDKALRFAIVGSLGFLTDAGLLWVATNKFGLDPYSARLVSFSTALLTTWLLNSQ
FTFKSPKRRTKSQFTGYVVVQVTSFFLNALYSLLVWQGVATPLVSLFFAAIISMFYST
TVNIWVFGDRRQ

>gene_1841|GeneMark.hmm|102_aa|-|1624|1932 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
LGPLNSAHRISAVQSIIGEELMTEVGGIAADQLASYVERIERLEEEKANLMADIKEVYGE
AKALGYDVKILRQIIRLRKMEDHERTEQEEILEVYKRALGMS

>gene_1842|GeneMark.hmm|389_aa|-|2248|3417 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
LAGASAREPGFSIGIEEFWLVDRETRDLAKDPPAEFLKDAKAKLGDQVSSEFMRCQVET
GSQVCNSALEAREQLIHMRSTLSEVAKYDMALLAASTHPFAQWDDQKHTDGERYNTIAR
DLRTVVDRLICGMHVHVGIEDDDLRIELMAQASYFLPHLLALTSSPFWRGKETGLQTF
RLSVFDNLPRTGLPEVFGSWAEYRRHVDMLINAGVIEDGTKLWWDLRPSDRWPTLEMRIA
DVCTDLEDAVCVASITRCLMRMLYRLRRNNQRWRIYANMLVRENRRACRYGSDPGEKAG
LIDFGRGEIVSYADLLEEILELIRPDAEFFGCVDEVEHARTIVKRGTSARRQREIYDGA
ELGATPKDALVAVADVLIERTDPHARSET

>gene_1843|GeneMark.hmm|258_aa|-|3419|4195 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
LGHDDPAPFEILNENGGHSLFVCDHASREVPKSLGTLGLPDEERKRHIGWDIGARKVTE

ILVERFDCPAVLGGYSRLVIDCNRQLWDPTGMPEIADQTVVPGNKNVSPSEHMKRIREIF
LPYHWAIEEQIATFHAKIAPALIAIHSFTPVFQGFERPWEIGVLWDQDDRIPVPLETL
RAQNPDLTIGDNEPYSQHLADYTIDHHGEAAGLPCVSIERQDLIDTDEGCEKWAKILG
DAFVDILADPNLYKIRRD

>gene_1844|GeneMark.hmm|249_aa|+|4515|5264 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
MPSAKTLQAQDDPETRRPKRVADQVADQILEKISDGIFLPGDRLPGERQLAESMSVSRVS
VRAALQKCLKTRGYLRAVQGGGTEILSSTGIDMDTAMTDLVRDSISNLRDLQEIRCTLETW
AARRAAINASDEDIKLLRMAFRQAHPRRAAKHRADDHRLHMMIGRATGSIIYYHVMKM
LHDVLAALTEIRFNGMAGPTFDRMVQEHHRAIEAIAAHPDAAEKAMSDHLQAVIDFF
KSASDKQAT

>gene_1845|GeneMark.hmm|300_aa|+|5308|6207 >NVVL01000096.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29577, whole genome shotgun sequence
MTTSREKLLALMDAALKAADPGVQIPRNLPPEPKGTIVIGAGKASANMARAFEKAWKGD
VEGLVVTRYGHAVECDQIEIVEASHVPDAAGEKAAKRILEIVSDAGPEDLVVCMISGGG
SALLALPGPGLTLEDKQAIKALLRSGATISEMNCVRKHLSAIKGGRLAKACAPARMVTY
LVSDVPGDDPAIIASGPTVSDPTTGQDALDIIRHYQIEIPQAAKDLLQSAEDETIPDDP
CFEGHETIMLARPQDSLEAAASVARDMGLNAVILGDAIEGEAREVAIVHAGIAHQVANHG

>gene_1846|GeneMark.hmm|757_aa|-|114|2387 >NVVL01000097.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29601, whole genome shotgun sequence
MSLPIPRKLTDEITEIVNGLPESPGLTDAAEKSREGVKLDLIFQLKDIKIVEEAIDDLK
NIIYTKYKKSIVKPGAPVGMIASSALIAHLTQATLNSFHSSGSVGEELSGIGAMMALMSG
SSNKKGIGITISMKNKYLNISDILALRKDFVELNVSDITMEMLILSKQELMESEPKNYDL
YRSVIGKIPNSSNGLRLVLDTKILYNNRISLDSKAILSKVNTGMAQLIECVYFPTKVG
IIDYIPDSKISLSTIHSSACKDPVLFHSMILLPIIGDIGIMGIKGIKSMGPVSFDIWS
LILGEKKISNGETLLALDRNKMFHMGVSKNHVNRMLREFGMVIVERKVKIGLTMVNTIKS
DEYMVVKLTEKRSGLTSPKIIHHYRDEDELEEAFFEDKLSGVIEPNTRMEETPYQKV
SKYWYARTNGTNLNEIMRMDSDVDPDHTHSDVNEIINKLGICAAKNFIFLRTVEVASLGG
ANVDPKHILADYMTSKGNLSKVTCQSKTQNSQFITGASSKSAADALKNAAAIGSSEKM
ECGPTLAIASGAVPRIGTGYAENVEVEARIDELIASIESSKEIDYNKQDFSDSISNTRRL
MSGSSVLSTGNNTPEFSFTNTPDVGVEVLYIPQVKGRIKKTHTKHNRKSVNVIFNMVNRS
LDEMKEKIETERKITDEIYINKESPVTQTDVEPSITFIPKITNFNDIPLILFKYLGEFLG
IDEYKMLHDNGKVPLIDITQMSNILNNFNQKIGANF

>gene_1847|GeneMark.hmm|237_aa|-|2421|3134 >NVVL01000097.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29601, whole genome shotgun sequence
MQTWKNNIDIPDHWKESISSIKSKMPKWRHVLMTDEDNRNFISEHFPDFLEYDYKFPHNIQ
RADAIRPCWLYVHGGIYMDLVLVQKNLEELLVNSGAHFVASGNISHTITNSFMASEPGN
PIWLEYIEQMKLAPPFWAMGKHMVRMTTTPGLCLTRVINESTQSHTILPNKLLMPCSVCN
ISRCDTTKSYIKPIKGQSWNDWTSHTLNLCMCKWRELLLILALLLISYVLPQL

>gene_1848|GeneMark.hmm|315_aa|+|3193|4140 >NVVL01000097.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29601, whole genome shotgun sequence

MRSRKKCRNVFIRGAQGIQGDQGLTGDQGDQGLTGDQGDQGIQGIQGDQGIQGLTGDQGI
QGDQGDQGIQGIQGDQGIQGLTGDQGDQGDQGDQGIQGIQGLTGDQGDQGDQGDQGDQGD
QGDQGDQGIQGIQGDQGDQGIQGIQGDQGIQGIQGIQGDQGDQGDQGDQGDQGDQGDQGD
EGDGAWDFSFNTSLSLGGRVYVESDVVSTSGSSPFVNVVCILEYPGSDLVGDINYWSVTCAL
TDDCCGEAELFVVSTNSVISSIEIKFGTSLLPVSALSFSFSNIPTSDSVLGIRMRITESV
NGRCLLTLYSSKITC

>gene_1849|GeneMark.hmm|259_aa|+|4169|4948 >NVVL01000097.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29601, whole genome shotgun sequence
MRTLCLVIGFDYKNTKKNLVCIFIDLYIAYTSLKNMGHKKIMIITDIVETPDILLKNAI
FDGLVGGNLSFMSEIRNKGKIKYKTSISLKHLMISLVKLNNQEKMLLYTGHGENNSI
TLPTKFDVLSMNDIKDIEESTKINKAIIIMDCCFGSINLPYTLRGKTYRLSTNDMKFSK
KKILCISSTTKCGTSLMTNTGSVFTKSLFENIALSDVVEITNRINTEIWTKSNSKQKVTV
YSSHPNIKITQILELGN

>gene_1850|GeneMark.hmm|264_aa|-|4958|5752 >NVVL01000097.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29601, whole genome shotgun sequence
MNRKIKYQKLLVLSIKAKGGKLLTPYVRSVVKVSVKCKQDHIFSCTPKSIKSGKWCSECP
IQKKINAKNIIKKGELLKYSRETTIIRVRCGRGHIFKTTQKKVLLRWCPMCSGSRG
EIECSVYLNKSGIEFFKEVKGNLEKIDIHKVDIKNRRDFYVPSHLLIEYDGRQHFSK
IKFYNGTPFKERQKIDKDKTIVALECGYNVLRIDNNSHVIRIRILGKTLELIKLDINSSN
LYITSERYSYLDHNNKMVYVQSKF

>gene_1851|GeneMark.hmm|49_aa|-|1|147 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MIMRIVKRWGKRVWLHFRLKRIWNNLFTSIINCRIFIKIIEDMSNRKIK

>gene_1852|GeneMark.hmm|80_aa|-|155|397 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MSASQEDEFELNPLPPDIDPLVKAKMIKLNRRFLQQNLPAWRPVSTFRSTLVTFIVIGS
VFLALGILLWMETLAVVEVE

>gene_1853|GeneMark.hmm|50_aa|+|482|634 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MDLKEIMVSLVLGNDCLQDRIITIMLVTTNMIFANIKEKMLMEAGLKIII

>gene_1854|GeneMark.hmm|164_aa|+|1012|1506 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MDIVLNPINKDLTRIPVTSITMAKTLTSAKRTLKEDLYDHRIKTAGVSLTLLRPSLLE
LLIEQEDITEAAMESDNTREQMTNIIKAEVNVIAEERGVEGAQILVTQVRQNVVVEEDKD
KEADIGDIVAIIDTLTEALNDSTEIEASTTDTRNVIKTASFLSP

>gene_1855|GeneMark.hmm|69_aa|+|1617|1826 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MCDTDPKELSQTNATLLEDLNCQLSSQVATHNEEQWKIDSTILSEFAVQSILDKDRGS
AIQSRIFGD

>gene_1856|GeneMark.hmm|35_aa|+|1845|1952 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MLRDLLEKDNISLTRTLQHRFEEVEKLNIVDAEE

>gene_1857|GeneMark.hmm|89_aa|-|2408|2677 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
LIVSYGILTL PNSAGAFELECPTWRPMTGWKDEAFTFYLGPPKLVNSDPISKDLGKRAQ
LTSISSGSHVHVHCEVIMKNFKELGSLGNN

>gene_1858|GeneMark.hmm|97_aa|-|2704|2997 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MKEQLPITNPRYISSVKSLSVAQILIPKLVYFAKFRLSMENTGLLFLKLVFKLILHFLMM
MECLYGLILLICISMLGVFMVGLGLYVKCGDLMISVN

>gene_1859|GeneMark.hmm|60_aa|-|3228|3410 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MITRRGAISPKKLPEVIENFPPEMPTATVGGGSMNHKIVPDKAILPFNGLNQNYKKDE

>gene_1860|GeneMark.hmm|91_aa|-|4683|4958 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MIMPQINGGFAAPVPLTNEQNQLQIARRKSTDLRDYNDGMQNNYRIGDDGMYAERKISD
FPYGYRNDTNHLDPSSAGNPFMHQMMSSPSF

>gene_1861|GeneMark.hmm|48_aa|-|4974|5120 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
MENSGIKSRGQSFDTMIDMEKGVDIHGVTAEALHDPMMVVRNFLTQRQ

>gene_1862|GeneMark.hmm|64_aa|-|5453|5647 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
LEMKGHLHRCKIGSVISIKMSNLKFLWLLSETNATSKIDKSNLKLHRLNLLTRIKCFMLK
HQQK

>gene_1863|GeneMark.hmm|104_aa|-|5696|6010 >NVVL01000098.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29766, whole genome shotgun sequence
VEAVPKEAIVNLIKAGLISVSKSLAMLSRDKMKKILINNAKLFYLEIVESANQVFHFAIV
KTCFRLRMKLLL GALT CNNGFNCPMEASYSCMFGIQEGRRGLEL

>gene_1864|GeneMark.hmm|643_aa|-|3|1931 >NVVL01000099.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29788, whole genome shotgun sequence
MSRKQKKEEEEDLTELEIASRSWGGFKGHFTRVVKSAIKSLDFAPHVPGSLLVINNLKEH
MESVQKAFTRADSSLSVCALLDDPDVQGDYDGKAEELHARRDNIIAQQLMDQIDELIAKAE
DRKN TAALEAAAAAPLHGQGAGPGPTVRPNAELKPPTLTRDFTPVEFRSWSEKFRAYH
SSSRMELGKVRDQAYLRACLDSYLD SRLARKLEDDTPIFGRDSCAILQTEWEVRYPII
ERRLEFWRTKQATGQWFTDWATALHRMGDEAELDNMTINQMYIMRYIVGTNDIKLREKFL
AEIDPSLEDLQRIAGAYEVA AVSMKAVAPHQHQAQAHAMQTGQQGGRDKPRGQSGISRED

KMAEMRRKDLCFRCAKRKHENKSECPAINGSCNKCQKKGHYSPACLAGYEAKGYRQRVRD
DDRQKEKYKKTTSQTKTNQVTATTNAILVGLTGTGENAATPRMMVQAKATSGTPFDFFPALP
DTGATRTIIDADVARTYGIRPKKIKAEVLTASGQSMKCLGSAVMTITFVNRTIHVNALI
VEGIRAGFIICWRDLIRLGLVHDTFPQPIQQAEVMAVDDKKPPSPSPSPDARGAPC
GPSTGAIPKKRRQDSEHDRDGTRQNDNTADTIDSLVAEFADV

>gene_1865|GeneMark.hmm|170_aa|+|2595|3107 >NVVL01000099.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29788, whole genome shotgun sequence
VINSAAHEVDMRLDVGIVFGLGSFFRLVCVSDNNGNLNALSRLQCGHLADILSLSRNVVDLG
EAMRVERGRDPLRRFVVTWWKKGWQRTSIPDDRMRCGESMRKVVRKRPLLHVASGGLLS
AAGALSYAEVQSPCSQKQGNRHERDTHAGCVDLEQVEPAGGILFDRPVC

>gene_1866|GeneMark.hmm|952_aa|-|3229|6087 >NVVL01000099.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29788, whole genome shotgun sequence
RRQDSEHDRDGTRQNDNTADTIDSLVAEFADVFDKVEVTPMAGAPMHIHLREGVNVVRPTR
ISTARLIPLHYREEAEKAIELFVRSVIEKVVTGNPTDWWAPAFFVPKPNGKVRLVVDYKQ
INNQIRRIHPFPCPRDIIRGILPSTRYFIKLDVQGYQIPLDDDSKDLTTFLLPSGRY
RFARAPMGLNSSSDEWCSRSDAAFAPVPNLIKIVDDALIQAPTERREALRLLRIALVCSRE
HNITLSRKKIEAGNDISFAGYKITDKGVKPDSEKLSAIRDFPQPKDITTVRSFLGLVNQL
GFFVVDLAHMTDMLRRLKKNIAFQWLAEHQSAFEQIKALLVSDMIVKPFDTALRTEILT
DASRLHGLGYALVQRNEDSLRLIQCGSRLLPAESRYATNELEALIAWAITDCKFYLA
GANFTVVTDHRPLVGTFAKPLGEIANARLLRIREKLVNFTFDIVWTPGKVHFIADALSRS
PIFHPDAINDALSDDEGIADICAVHTYTVDNSVYVETADVQSLQNFNMEVMQSAAREDEA
YSSTLRALREGKQLRDLPRDHPARAYRDQWEQMSICQDDILIVDFMRRIIIVPRSLRAKILQ
LIHQGHAGYVRTKALAEYFVWPSMKRDIQKMIEQCEPCQRLRPSLPKEPLQLHKKATEP
MESISMDLFHHEGREFLVTVDRFSGYPFVHKLSTSTAAIINILAEILNVWGFVPEIMTD
GGPQFRTEFNSYCLQHDIRHRKSSYPNPQSNGLAEAAVKNVKHLMMRTPSEDFFAALAIW
RATPRSHQEDSPSKLFLGRKPRIIPTLSATSSCQGEKLQEQTPSTEKSGKHQLQTGDRV
RLQDPISRRTWTETGIIQSACESGRSYFVKTENGSVRQRNRRFLKKIDHEASFEANPEAEE
RHEADKAECEKHPANTQLKRGRKMKYADAACKRAISPPKRRSARLAGKKAD

>gene_1867|GeneMark.hmm|291_aa|-|2|874 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
LTYSSKQATLSVPNKFKNIQNGMQWIKAFIIGLILIGLSVLAVFFIWLAPVGAAYSAAKV
MCSAIFVNGLTSTRAREIDVLADNNPLLSLITTNVDLRNQAVSAHAFGFRKRFAYRPNL
GCTLADSPHEIAKLRNSTPVMTPVEPRPLLTSLPADVDRRALNSILFDAMDEPGLRPER
RTRAVVILHDGKVVAERYAAGITAETPLPGWSMTKSVFNAILGRMRFEFGMISDLQEPVLI
NEWQAEPGDPRATINYDELLMRSGLEFDESANPLSDVVQMLFIEPAAAAG

>gene_1868|GeneMark.hmm|391_aa|-|897|2072 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MPPIAAVILIYGLGLTASMQVGLIGPIAPDLRASFGLSQAEFGLVASLITAAGALCAIPA
GVWAARAGLRKSLVLGCVMMILGALIFATASVSSLLYVGRVTSVGYLLIVVGAPSWMAG
FRNPKLVAMAMSIWGTFTIPVGIAGLNWISAAVVTWIDWRLAVGACTLPVLILLPLALMD
KPETGSARRSLLLVIGVGLKSRALQVAMTFAAFAGATSAAALAFMPAMLADNLDIGIALS
AGIIGTTAAGNVVGSVAAGAVLGRSIPGRAILIVFLPIMAVAISTLFVSTSVPLSISML

IVFNICQGAVAGTCFALLPKIATEGLSMPALQGMLAQFAEIFVVIVPPFAGAMIDRDGWA
GAAAVLGGFYFIGFLVSLRKPASAPIRQKS

>gene_1869|GeneMark.hmm|193_aa|-|2183|2764 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MKPMDDETAPDKEFGRLLRQWRRTSDIKQSRLADILGVTQATVSRWESGAQSPAPLQYDLI
HQMMTRKRNFRDLHAVKRLVMHSSQRVHLIEDRSHRLLCASRPRENEWQRDCTPLLGTSL
WRFATPEIASAEKSLHDLGWHEHQDHTLTFETSRRDGDPMRIIDTYILWERFFLSGDGTAV
RLTTGFDQKPAHI

>gene_1870|GeneMark.hmm|189_aa|-|2833|3402 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MRIVGGTHRGRLLSAPEGRDTRPTLDRVREALFSILSHASRWYEDDFNPLFDGVILDFAFA
GSGALGLEAISRGADQAVFFDNDRKAVAIIEQNIDALRISDQASARRADATKPPRASRPA
SMVFLDPPYGKDLIEPSITALAKAGWIDGNTLIVAERDPRDPEIALED FYLCDSRKYGRC
QIDIGRFIA

>gene_1871|GeneMark.hmm|437_aa|-|3408|4721 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MSDKNTTPDDNKPERIAKRIARSGVCSRRDAERMIAEGLVRLNGKKLDTPAVTVTDEDEI
IVDGKPLPEKEKPRWLWRLFKKRGLVTSRDEQGRD TVFEHLPSYVPRVISVGRDLNSEG
LLLLTNDGELARYLELPATGWARRYRVRVHGQIDEAKLKQLEDGVTVDGINYGSIAEVD
VQKGTNAWMTVTLREGKNREIRRVMEHLGWVPTRLMRVSYGPFQLGNLAPGECEEVTGKV
MKEQLAAFFKGDYSKVSEKKSARGGTSRPAKRTVFGQPAQRKRPQGGPNATPQNAEAE
EQRETRERPSGGAARKGPRIGAAPRAGGRGKPATGGGGRQERDMREERGSSRPTNKGRGR
YSAEGKAASGRDGGRDGGRDGGRTGGREGKPGFIEGRGRGKPNGKPSGKPAGRSGDTH
SAPGRKPSGNRPRGKKD

>gene_1872|GeneMark.hmm|240_aa|-|4718|5440 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MNTRKPIIGITLDSEEPGGYSKFPWYALRENYAGAVTEAGGIPMPLPHEVELVPDLLDLI
DGLVVTGGAFDVDPTLFGATETHDTVTKDRRTKFEWAMAEGALERDMPVLGICGGQQLL
NVILGGSLIQHIPDAIENCLPHEQP NRPNEPGHDVTEPNTLLAKIVGDVKTLSVNSAHH
QAAEGVGPDVIINSYAPDGVIEGIEHPKYRYCLGVQWHPEFHSSGDAKIFDALISEARK

>gene_1873|GeneMark.hmm|110_aa|+|5711|6040 >NVVL01000100.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29869, whole genome shotgun sequence
MSADSYMDMALEEARAAARRGEVPVAVLVDADTGEVLARAGNLTEEMNDPTAHAEILVI
RAAAGAKGEPRLPNCDLYVTLEPCPMCATAISFARLRRVYFGAYDPKGGG

>gene_1874|GeneMark.hmm|1142_aa|+|165|3593 >NVVL01000101.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29891, whole genome shotgun sequence
VDTDMGKKYTKFEFYDQKLSHINDIRFTYREMDVLA CLVNKLEEEEISLLLSIASQTIKT
YIRNIRIKIGNNSRISILRFVEKSQYLLLIIEYKYINIEASFQKQLLNIGTKINPELIS
IKLSHGGLSKTEQNKILNDHLKLSNIILENLPHPDTNAPPNTRHPNISHSNTNHPEIC
HESVSVLGSSLPSRSLQDIIMLESTDLDFDKNEIIDLENNYYESVFILIEKILKSPKIQ

DDFDKHKVNSKLSFKRASKSPWNKLYLIVIFSVLLAAILAYNNLIFSFKTKTVIKSNLF
LSQVDSKLYRSGMTSLIKNKAFAESSDIQKVVLGAGGAGKTTLARQYAKNSNARIWEIE
AITKEKTFLSLQQLASELCENNIESQDLKAILSRGNATSRYGKFMSFLTQKLKTHSNWLL
YDENVKNFQHIKFFPYDHNVWGTGKVIITRNSNISSNIFIPDDNIIYVGELNPKDKRT
LFDNIIIDLGMTEKEKIKINDFLAQVPSFPLDVSLAAYYIKETNISHERYLNQLLKRDK
KFVLKQEKLLSEIGEYSNTRFDIVAICTKQLIKNNPNFQELLFLISLIDPQTISREILLD
FKSNIIVDRFFHFLKKFSLITKRTLSIHNQNIDSISLHRSSGRIILSFLKFSFMNEAEKQA
VYNQVNQSIKYMMLKVIDQCEDITKILIRHAESFIRNTKENPIDIKMGNLLSECYMIVG
EYKSKQLLHEIISVNNLQDIPNSENLAETISHLGNVYRAMGKYQEAQEHLEESSKLLAQ
TYGLKNIITRKALINLSYTYRDLGKYHKAKNILKMDLNVSKELKNIPIELANIKAEALAD
IYKLGMYDIALKYQKAIATLKNHYGNNTTKIAWIYVQLGALYRNMGLYKSKDLVDQG
SRFFIDNYGKHSVKIAWILIQKGNIIYQDIGNTKNITELFKRAHRIYQDYGENHIKLGWA
SCYLGRAYSFKGLHKESISFLKQAVKIHKMHYGLDHVKTAWAQSHLINSYKNGNLTEAQ
HLLQVNIYKDFYGATHVKYAHILLAKGQISFAKGHLELAEMMYNDALDIYNNSSHAGR
YKCFEALGDLYLFRAQNNVSGNINISNIIYKAKYFFTESLDILLKDFPKDSPHVTRIQS
KI

>gene_1875|GeneMark.hmm|703_aa|+|3771|5882 >NVVL01000101.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_29891, whole genome shotgun sequence
LSRIKKFLYFLGILITIGYYIFFHKPKADLIRSELPLCNEIILVRSDLINQIASSLK
EKSGIQTVVLHGIGGAGKTTLARQYASSQPYPPIIWEVNAENSATLNASFERYSSCKSE
KLKNEFKLISKDNDAVRRERNLVFFAKIVREYDNWLLIYDNVRQFHDIEKYYPYDTSVW
GNGKIIITRNSRIKDNILIPDSNMIKVDDELTELEKTALFKKILPNNINESLKNELANQE
FLKTIPSFPLDVITAAYYIREEKTPFAEYLKYIETHNNQFTKLQKELLLNIGGYDKSRYG
IISTSVKHLIENNDLLPQLLLLCLLDSRNIPYNLVTKSKDPYIIDQISNIQKLALISLED
KTNNFISHRSTQAIMLSVILDIVDAERVKKVTNQQVLDVFKYLDNKLSSFSTAEIKLMI
NHMQRMLGRLEISSDKSRILLKQALGEYHLRIDQDKQAKELFRQVSDNKKHRDQNSTET
ATSLVLFITLVDAENDKAQELITTALNIFEKNKEDDNNIAWAKVWLGVIQRNNGDYKK
SIDLLEQAVSIYDKNKKEQSLYWAYVYLGSSVYSIGNNEKAKYLLEKAQDFFIENNGPKH
FRIAWLSTYLGVYTNMKEYKKAEDALNTSLTLHKNLFEDKHYKIAWSMENLAALYTELG
KYQKAKSLATRAIAIYNADESSNLLALSRTKALLNKINQALGE

>gene_1876|GeneMark.hmm|48_aa|+|173|319 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
MVIPGYQGFVPGVKADNIYGKTNTEASRKVLNKTLDGRIGFNSFVNIG

>gene_1877|GeneMark.hmm|57_aa|+|485|658 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
MISPVKLAKPNVRSKSVISYKMQLPEPTLGKDSGSGFAPNKPMRISNMMCLNIDYLY

>gene_1878|GeneMark.hmm|54_aa|+|954|1118 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
LEKKKAPHKLTVEDASNDNSIVEMTQAKMDELKIFKGDVLLKKGKSMVGLISV

>gene_1879|GeneMark.hmm|420_aa|+|1151|2413 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence

LVAEDSDNLDNSKLRMNKVVVRKNLCVRLGDIVQVHPCPDVPNGNRVHILPIDDTIEGITG
NLTQIYLIPYFKDCYRPLRKGDTFLVRGGFKAVEFKVETDPGEYCIVSPNTMIFDEGEP
IQREDEDQRDGIYDDIGGCRQQMAKIREMIELPLRHPTLFKTLGVKPPRGVLLYGPPGS
GKTLIARAIANETGAFFFLINGPEIMSKMAGEAEGNLRKAFFEEAEKNSPAIFIDELDSV
APKREKTQGEVEKRVVSQMLTMDGLKGRGQVVVIAATNRPNSIDTALRRFGRFDREIDI
GVPDEVGRMEIMRIHTRNMKLGEDVDLAAVAKETHGYVGADLAALCTESALQCIREKMDL
IDIEDETIDAEILDAMFVTQEHFTFAMGQTNPSSLRETVEVPNVQWDDIGGLDETCKSL

>gene_1880|GeneMark.hmm|200_aa|+|2465|3067 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
MSPSKGVLFYGGPGCGKTLAKAVANECSANFISIKPELLTMWFGSEANVREIFDKAR
GAAPCVLFFDELDSVGAARGSSQGDAGGAGDRVMNQLLEMDGCVGGKKNLFFIGATNRPD
ILDEALIRPGRLDQMIYIPLDLPSPRSILKAVLRKSPIAQNVSIEFLSQMTENFSGADI
TELCQRAIKAGIRESIEAEV

>gene_1881|GeneMark.hmm|126_aa|+|4273|4653 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
LLREEKRADDNFDPPQTKFKILDTSQMEVVEKHAQALAEKEGTGCREMFKHKKLEELALMY
RVFSRVELTLKYILDQMYPYIQRGKILVMDKELEKNPVEFTKKLLELKREMDMVESSF
NNNMKF

>gene_1882|GeneMark.hmm|138_aa|+|4684|5100 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
MNEQQVTAHFIAASYCDNEFKKGLKGVSEAETDSRLDAIIRLFCCLHSRDVFKQYTKFLA
GRLLNKSSISDDAEQLMLSKLKVCEGLQTVNKMSHMFTDMTSLKELMNEFKKSPFGNDGF
INGVEIHCEVLTNGHWPE

>gene_1883|GeneMark.hmm|60_aa|+|5287|5469 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
LLLFNEKEVYTYEEVGKQLNLDAKVLHTQCMYMFSPKMRLLTKENAKKPMCTPDEKISIN

>gene_1884|GeneMark.hmm|70_aa|+|5599|5811 >NVVL01000102.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30088, whole genome shotgun sequence
VVRIMKVSFIVTLKARKEEKYNPLLEEVFRQIQMFRPQPKMIKERIESLIEREYLKRD
NDRSRYIYLP

>gene_1885|GeneMark.hmm|280_aa|-|82|924 >NVVL01000103.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30229, whole genome shotgun sequence
MIHAIEIAPSGLLQGLLISLLVLGVMIPFRLLDLPDLAEGSYPLGGAMCASLIVVGV
PIFALILACLCSGMMGVGTAFVHLRYGVNTLLAGIILSTMIYSVNLVVMGKPNIALFEHP
NLFSDLSSGLSSQIALLIINFVVMCGLFLFNTEKGLRFRAVGLNAKFAERQGANLKKN
ITAGLFMGNALCGLAGALLVQIQGYADIGVGVIVHALAAMMIGEKMIGTHHTLRMVAA
PFIGAILYQQIQGIALAVGMAPSDMKLLTGIVVLGIIALR

>gene_1886|GeneMark.hmm|250_aa|-|921|1673 >NVVL01000103.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30229, whole genome shotgun sequence

MLALKNISKSPQITAKVLKNINLTIDEGEYCIILGSNGSGKSTLLKIISGEYSADHGQI
FLNDIDITKQAIHRAGHISSVAQDITKGVIQDMTLENMSLSNLRGQDASYKFYKDQSA
RILESVRALGLGLEKFLHSNMSTLSGGQRQAVATLMAMEPRPSILLDEHTSALDPVRQG
KIMHFTNEYIKQHNTSLMITHNIEDAAKYGNRLIIMHHGEIVFDVKGQEKQALSSGELL
DILYKMGGSL

>gene_1887|GeneMark.hmm|326_aa|-|1679|2659 >NVVL01000103.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30229, whole genome shotgun sequence
MLRSPKIYAFAVIALISLLSIFKTDPNRSAKTLVAIANYGPHSSLLQTIDGIKEELTKL
GYTEGENINYEISDVNFETSLIIQMLHLKASKPDVIVAISTPIAQAAKNLIKDIPVIYA
NVTNPEEAGLVSDIDITNITGASDRQDFSVMLDFAKKLLPRAKTVGVLYSLGEANDASMV
DALKKTAEILSINVLAVPIEHTRDVATRMRFVFGNVDFIYTGSSGAIQASLPAIATAES
MKLPVFNFNSEAEMSHNVLASYGISHRQIGANAGQIIHRVLLGIKVPDIKPVYDPKADYA
GFISRKRAAKIELAIPADLKNVTIVD

>gene_1888|GeneMark.hmm|615_aa|+|2991|4838 >NVVL01000103.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30229, whole genome shotgun sequence
MTQETKKFDAEIGKVLHLMIHSLYTNKEIFMRELISNSSDACDKLRYLSQTDAALTKGDA
DFKISVKVNKEARTVTIRDNGIGMNRDDLSENLTIAKSGTQKFLEHLSGDNKKDSQLIG
QFGVGFYSSFMIAQDQITVTSRKAGEDKVYSSWSSDGAGEYIADSDKEFSRGTEIVLHIKK
DEDSFLDHFRLKHIVKSYSDHIAVPIFFEDEEGVQAQVNSSSALWRRAKSEIKKEEQYTEF
YKTVSHAVDTPWLTMHKNNEGVEFTNLLFIPSTKTFDLFHPDRKCRVKLYIKRVLIGDE
NIDIVPQYLRFLRGVVDSEDLPLNISRETLQHNAVLEKIKKSIVKRTLSELKKNKKNFD
EYALFWDNFGGALKEGLCEVTSDEKLELVCLFRSALHNKMISLDEYLANSKDKEKIYF
LSGDNPEKLRNNPQIEGFLSKGIDVLLFTDAVDDFWINVNGTYKEAQIKSVTRADIDLGT
DKDAGDKKEENSVEPLSYFKEALGDLVKDVKISKKLTSSPACLTVADGAMDIRMERYL
IEQKQLSTLSAKILEINPGHKIVTKIANDLDKSDKHEENKQLIHLLHDQACIEGEPVVD
AAAFSKRLNSLLEMV

>gene_1889|GeneMark.hmm|186_aa|+|5072|5632 >NVVL01000103.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30229, whole genome shotgun sequence
MSRRFGSNGAFKPFVQKSRPYPPTLAHPEGYIDTDEHPRPQSNEYPLSKKRKLNIDEP
LEICRFRGQIISKLDSSNLDIDVAAEIEAKTFSQKLYDFTARSEYDPSIKEFTAWGVALL
DLEDFIYQHRKIQIYLDHLQANKSQYNSNNSYNLAVGYLTELTAIHPSDTIEIGIAGLEI
CMICYG

>gene_1890|GeneMark.hmm|37_aa|+|3|116 >NVVL01000104.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30523, whole genome shotgun sequence
KAAVNAHGGEVKVESSGAGVLFVRVPLASDRGRPRS

>gene_1891|GeneMark.hmm|247_aa|-|353|1096 >NVVL01000104.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30523, whole genome shotgun sequence
MRFDMKNPSAAAIIIGNEILSGRTLINTQEIARLGEIGVTLVETRTIADDHDMIVTTV
QELSNKYDYVFTTGGIGPTHDDITAKAIAAFNVGYVRNAEIIDILKRHYISIEEQRAVG
REKMAYIPDGAKLLYNDATNIPGFLTGNVVFAMAGIPKIMKSMKTAIPMLKKGKIVKSES
IDIMTGESVIASDFEALQKQYQNVEMGSYPFQKDGVHATSLVLRSSDYEALDLAFSEVKT

LCKKLGR

>gene_1892|GeneMark.hmm|524_aa|-|1197|2771 >NVVL01000104.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30523, whole genome shotgun sequence
MRWVFIISVFSLLFVLVGYQFWPPAIYFLIIIPYIAIGIHDIFSVRHTILRNYPVVGH
LRYMLEFIRPEIQQYFVESDRDGTYPYPREVRSLIYQKSKGVRETIAFGTKNDITSVGYQF
SYHSLSPKEVASENARVTIGGKDCTKPYEASRLNVSGMSFGALSPNAIKALNKGAKIGNF
AHNTGEGGLSPYHLDGGGDIIWQIGTAYFGCRDKEGNFSPEAFKATAEKEIVKMIEIKLS
QGAKPAHGGILPAVKVTKSEIRMVEMGEDAISPPMHAECTPIELLEFVAKLRKLSGG
KPVGFKLCLGHRTEFMSICKAMIKTGKPDFITIDGAEGGTGAAPVAFTNKLGTPIEA
TFVNNCLVGANLRDEIKLIASGKVATGYDMVTKIALGADLCNAARAMMFALGCIQSLHCN
TNACPTGIATQNKHRWSALNVKDKSIRVANFHKRTLHSFLELVGALGKDNPELDPHIR
RYADISTSKSYATIYPQLSPGELLAKDVTGIYADLWKNSQAERY

>gene_1893|GeneMark.hmm|739_aa|-|2850|5069 >NVVL01000104.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30523, whole genome shotgun sequence
MSNKNDNIENVDFGDAISERYLSYALSTIMSRSLPDVRDGLKPVHRRLLYAMLKLNLDPA
SRYKKCARVVGDVIGKYHPHGDTAVYDTLVRLAQGFSRLRYPLIDGQGNFGSIDGDNAAM
RYTESKMTEICTLLMQDIDQDVTDFRATYDESDTEPVLMPAQFPNLLANGSEGIAVGMAT
SIPPHNLHELCDALIYLIDNQKEASCADMMRFIKGPDFPTGGTIIDSKEAIASAYNTGKG
SFRVRAKWEKESFSHGLYQIVITEIPYQVQKSKLIEHIATLFKDKRIPLISNIRDESTEE
IRVIIEPKGRNCSPEMIMESLFLTALESRVHLNMMNVLRSARKAPKVMNILEVLQEFIAHR
QEVILRRTKYQIGKIDDRLEILHALKIAAYLNIDEVIRIIEEDNPKQELIAKFDINAVQA
EAILNIRLRALRKLLEEEHINAHEDELKHHVLSKILGNSTVLWVVKNELKMOVQKFGY
DTIIGARKTDFNEIEPSAQIIDISAFIEKEPLTIICSKMGWIRSMKGHNLDLAGLKYKEG
DTQAFVIESYTTDNILVCSTAGKFFTILADNIVRGKGGGESVKLMVDIENYDVLQILPHK
PAEKILLGSSNGKGFVVNSDDLITKARSGRQVMNVKGDVICQICKPVTGDMVAVIGTNRK
LLVFALDEMPKMRGQGVMLQKYRDAKLGDVKTFSNEEGLSWNLGSKIRLEKEIMSWRAG
RGSIGKIPPTGFPKNNKFN

>gene_1894|GeneMark.hmm|108_aa|-|5316|5642 >NVVL01000104.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30523, whole genome shotgun sequence
MARVAKRLRLRMTDEERIEYHKYLKESAVQEDILHAATERGREGVEEGMEKGREEGRE
EGREEGLSKGAKLANIKAAMLVKGLDIDLISQISELSIDEIMELKN

>gene_1895|GeneMark.hmm|39_aa|+|111|230 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
MKIAMINSAMRIVPNSHGQKENLDPVPIKITFALEISS

>gene_1896|GeneMark.hmm|77_aa|-|446|679 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
MICKSPRSYSLPPTGQIPFSLPFGVAFNEDEFRPWTHSGHMYRFYDQPRLSKAVPYEVNL
NEVSEVYVYAARKSIFY

>gene_1897|GeneMark.hmm|62_aa|+|853|1041 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence

MILRWEWSMNNYSKLLGQGKSHSLTAEGHRVNDISFGLRLEPQLLRKRGLLYNQVELKRN
LI

>gene_1898|GeneMark.hmm|264_aa|-|1241|2035 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
LDTSYSTNEIKIYQYTSSFVEYFYKQPVVKEIFPHSGASHGGTQVQVAGAWFKHRPQYG
LIPYCKFGEKIVRGRFISTVRIVCEAPPKEGRGDRVRFEVSQNGIDFTETNYEFSYFDQP
DVLKIEPHSGPESGGTEVRIFGTNFSNHTFSKEFLCTFTPVEGNIPAKSIPARYENNTSV
LCLSPGGWVGTAAFVRLTFNGQDASQSEHIFYFYNIVTAEPLSGPADGRGGLITVTGNG
FSNSTTTFCKLDNELYKPYSVSAN

>gene_1899|GeneMark.hmm|212_aa|-|2219|2857 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
VHYKATSKAIGYDGFAPKVFVDILTDNNITIWYYAEPEYEIVQPTAVPANQEANLMIKT
DFKWEINNKEKIIAHGNFTCRFMSFDGKKVFTNATILTYPVGDEGDPNTVSCSPKWDL
SGLLREENIRVDVSINGVDYSGDRILISENLVDYKIVPLCGPNEGSTRVKIIGTGFKQ
KEEISVKWGVITRPLDKQALDFVYNEAEFE

>gene_1900|GeneMark.hmm|106_aa|-|3122|3442 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
VKVVPEGLTRSFIIYDSPQILAITPLFGPVRSKTDEILEISGTNFKCPVEGCDLLCRFGK
PPIAMYSKATRVSDTKVTCPIPKYAQPEIMDVELTLNGEDYTNNKH

>gene_1901|GeneMark.hmm|49_aa|-|3518|3667 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
MTIKGKGFSPKLDQNGTTIVGDIWVRFTLIKNDKKIVEEESKAKLISDE

>gene_1902|GeneMark.hmm|180_aa|-|3788|4330 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
VDYLYYETPIITRIEPICGPERGFTQITVFGKNFVNMFGMTMCFNNTIFTNATIMEHN
IIKCDSPPAENWTRFTEEKIVYYYVKITLNGIEISGPEQKFIYYKEADIYSVTPNLGPVD
GGTLSKIDGRGFNQIGVCNMTVRYATWQVKPLNYTYDYIFVESPPVETPDDVVAVGMNG

>gene_1903|GeneMark.hmm|91_aa|-|4445|4720 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
LALVPATVLNSTKVICHSPASYILRQSIVEITLNNQEYTDNNVVFYRPPFVFDIEPRE
GPTKGNNTTVYAIGSNFRNTKDIKCKFADIVV

>gene_1904|GeneMark.hmm|78_aa|-|5033|5269 >NVVL01000105.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30565, whole genome shotgun sequence
MTLNKEEWCLQCDNNDGKAEIVPFTVSLEGFSDCENSVAIRYKDPKVVWAIYPRYGK
KNGGTWVQVWGENFLNFD

>gene_1905|GeneMark.hmm|568_aa|-|3|1706 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
MTRPAGEPIGPS EDTALGPGILETIEANVRVMGIRSTARARMLMQCRAFVYVGS HDDHLRSR

RWDGSARDPGVGYLHERLKPQGFVPVQSIPYQQRKPDGMPLARQIINRFSEMLLGQGRA
PGLSIPADVDTERYLEAVFSEAMCWDVLMWARDVTGSCGSAIVPSVNVNGVPTAEVLMPPF
DIHVYRWKNGASWEPLVVEQRLVDRVVPDPETGKLDVQQYWRTRMWTETHTVTFDDVPQ
NWPPEDPIPYRPENRVEHHAGRCPVVWYQNTRSSKSPDGAADCDGVWHLIDQTDREMSQV
YKAARANVDPMLHIKEERLKKKIGAVTKGGLVMTSAAGDAKYVEMEGTSISVGLVVRT
LRQEVLTAECEIIVDPASAGAYKTGEALQLLWRAMEAKTNRLRVMLTQTIRELSRIWLSL
GRAVGVANLEDAKPGNGILLPPVVELVEQTTEEIVAGERPTPNLTTQSVGTGAHITFKWP
PYWNPTAKQVNEMALAMGAAKNASLLSSSTRVTEMAKLLGIDPGDEFVKVKREQLAQK
AEDDFEKEVDRMETQGTAAAVALPPPLP

>gene_1906|GeneMark.hmm|231_aa|-|1703|2398 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
MRYLGGKSRIASKIVGLINSETPLDSPFYDVFAGGLSITCAAATTRTGPVYANDRCTLPI
TMYQRWSTGWRPKKLGYLQKQDPLDPHTALAGFGMSFAGIWFSGYARDSVNTSY
FDVSVRSLEKGMGPCQDVEFTCKDFSALSPSESVVYLDPPYKGTASYRYHQGFSTRLL
SWSANLPTPHVFMSEYESPGPNWEEVGSFDTQGSGLSRKQEKLFRLISSPP

>gene_1907|GeneMark.hmm|232_aa|-|2411|3109 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
MQYLGGKSRIAGAIVASINALTETGRPFYDVFCGGLSITVAAAATRSGSVLANDRCAPLI
TLYSRWAQGWWRPARSIGYLDYKQLQAKQDPLDPRTALAGFGLSFGGKWFAGYARNKSGRD
YYSSAVRVLSDKIKVCGGGVKFTCLDYSVIRVAPGSSVYLDPPYAGTTGYGYHKGFSRAR
FLEWVTSVQNSGSDVFLSEYESPGDGWTCVEEFPLVHGRLATRPERLYHLPR

>gene_1908|GeneMark.hmm|495_aa|-|3132|4619 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
VNLHEDQRARFNARTALICKRARQCPVEFTRWVSRVEKGAAIEVAATHVKWHQHLDHEDR
VVLFAVPGHGSNQITRWRVWLWEIGRNPDIRIAICSAKELPAKVLNDIRKDIDGEGPGS
QWLRMIFPHLARINWQVWADDRISLVRQGNPTIATYSPGTQILGSRDLIIADDLHDIKN
TLTPLNREKVHRWFRTEVLSRDSGTRVWVLGHVWHEDDALHRLVREQEFKFKYSCYV
ENEVSGAREPLIPEIWTLEKLALREKNLGPVSAKLMLFNLVDSGTGRIKREYFFECLRR
GSTLGAKFATFWNPGDAPTVTGVDLGGGGSLTCLFTVAVLPDMSLRVLDVRSQDWTGPQ
KIEQMEYVHQAFGSILCVESNGAQKMLEEFTTDMTALPIKGHHTGLNKHDMDFGVDLAT
ELANRKWIIPCDDELRPNEIAFWINEAVAYSRDTHAGDRLMASWIAREGVRLSGFRRA
SDRRDLIVDADTLVR

>gene_1909|GeneMark.hmm|148_aa|-|4627|5073 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
MEEQVQTILEMATTGALSLLAMTVSGLLAWGARSIKHWLDSQAHMASFACASTKLASLAS
DAVLEVEQTLVKQLKNDEAWNADTAKTARDTAAAIKRLHLGTRGLAELRGCLGLALADIE
GLIRTQIEVSVQRAGTAGRHSPTVALGE

>gene_1910|GeneMark.hmm|108_aa|-|5091|5417 >NVVL01000106.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_30989, whole genome shotgun sequence
MLKVLYKFMDDYSKMGDAFERVYERGGASAPGRLPKGAKVDFNIDPETVLPVAVVSTQPAVV
AAQEQESEDFHQQLFRDFEAWSEEELEAYMSSGDMMPASEKFTP GSGDE

>gene_1911|GeneMark.hmm|60_aa|-|3|182 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MTKNGEGIDRDQFDKLSMLDPKTKKMIETLEFIKVNMMNHLPMYYIPGEEFPWNREFG

>gene_1912|GeneMark.hmm|144_aa|-|360|794 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MDRYNGREMGSRRLARSVFDIYDPSIQTGSGQSPHEQSSLQDEELPTFFLPQGLGTTIPGN
IYYHINTTNKLIKLDYEENKNRDLTCDNLDEKNGHFIKFTFNNIGLIDSVTYMGTE
EIVLQSLWAFVGLHENYLNMLTSR

>gene_1913|GeneMark.hmm|40_aa|-|1272|1394 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
VIPEKHCHVEENYDDEPEMLKDLPIINPDAFCDENVEEKV

>gene_1914|GeneMark.hmm|46_aa|-|1653|1793 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
LKRLMLETRITVINARMVDIDRDKNVILHDETIVPYDTLILSMGI

>gene_1915|GeneMark.hmm|101_aa|-|1836|2141 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
LKKKWDHERAALEEEEEENKDDIDGHRDFLDENESGFALCFSSKRLLSEPKIVKNSRIVI
VGASDTGISFIEALLSISYLNFTNIILVAPGGLPHQHTDER

>gene_1916|GeneMark.hmm|84_aa|-|2361|2615 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
LHRDSLDDADILVRRVAADLDLIKPLCESLDEKEEVYDDIYDATINPEKYLSFIAKVG
DNAIGAFVCSKDINLSYYKSHFHI

>gene_1917|GeneMark.hmm|43_aa|-|3294|3425 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MICFGDIQYDLRIIEKMPPEENKKKEDDKKEGDEGAEPKIEK

>gene_1918|GeneMark.hmm|47_aa|-|3444|3587 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MDIAEERSILENIFVDEYGEPSFKKCVNIMDLGTLKADKGVAVKET

>gene_1919|GeneMark.hmm|132_aa|-|3750|4148 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MKCNLIAQRISLQEFLEKADIVTEIESYTTNDEEAKKLETAPVMEIFMKWLEGFILN
QPSEYFVDHPTDDADLVCNIQNELNFLISTLEIFGLPMGYMSGEGHFPNWGKDNKDDKLA
AVRKRALASKMK

>gene_1920|GeneMark.hmm|46_aa|-|4197|4337 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MGLTSEVDVKLLHQCFELESYDNLLKPEFMDAVRKRRETLDERRT

>gene_1921|GeneMark.hmm|62_aa|-|4491|4679 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MRGDADEEDSWYCFEPLKDFFEELDCRNKEVLKNVRGIHYNSKVFFSSRLLGLPFVEVRQ
AL

>gene_1922|GeneMark.hmm|67_aa|-|4842|5045 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
VEIGKDDVYNRVYSYPKILKLIETAYLSISVLDQNGQVIAFAAFEDYPHGMKQGQYDEKHY
NIWEDWF

>gene_1923|GeneMark.hmm|42_aa|-|5058|5186 >NVVL01000107.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31424, whole genome shotgun sequence
MEVNMNEGSPGSQNPGLAVYNEDNFDMESIVLRRADPDDCD

>gene_1924|GeneMark.hmm|196_aa|-|99|689 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MSGVDIIIGPMFSGKTELFETLNRQADIQHLGGLENKTLILHEDDVRKEQEKNRNAIS
KNVITIRCTRLSDLNVENFNIIIGIDEGQFFPDINKVVRWMLTKRVIVASLCGDHKTTF
GEVYKLPVCSSIKKLAICLPHIQRKGIFNVGAQCSFRLSFIHGKPKQLIGGYDKYMPV
CIECYNEMKPGTLQSK

>gene_1925|GeneMark.hmm|197_aa|+|754|1347 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MSVFILRGVSPKNVRNNYDNHGYAKMQPPGKISNTKLWKAPKVLVLKND SRLTSFTTMTG
SDKKIISLNNIESKCHNCGCECPDSELGIPIDIKRCKGGYIVLVIGKHCSYQCCFSDIIR
ESNLPKSKRDNIYECSEQFIRIMFKKQHPGRELTKANNWKIMETVGTKIFSSGKLFIEI
GNVSIVRCEKEYVMDT

>gene_1926|GeneMark.hmm|126_aa|+|1369|1749 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MYSYDILTICFVYTPAILLIFIYSYLKFKRINLSFVKSVIKSIEIRTLKSDIEIYDKYCV
IKFYHNGSEQSVMLPYNRSLKYVGNAKDIYLYGNTDILVKHYGCIPFMVSAEDIGCDSI
EYVDPF

>gene_1927|GeneMark.hmm|209_aa|+|1839|2468 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MNTHLGIDFAASVLAQSSINGILETQGKLSTLYGPNYLNLDLDEMNRWEERQKQKQKAD
EFGSAYHEEEKPNRRRNISKYTKNVRNGVHIAERGDPIQIVGNSKESLLLYGLVDSEITI
IGKTNNIVMSKENVVISLETSLTGKIFKCKNRLNIESIKYLGISTSNKIIVNGGVAA
NSMITLYTSDKCKVNGSNIPLDMFDVVTL

>gene_1928|GeneMark.hmm|416_aa|-|2505|3755 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MKMVTQLLFFHIKKNLIRMCEIVKASVLIGAALRAVDNDDIKLLNKIIEVISPELSDVV
TSDEMYITLISRAKEHNRKHTTIYLIGKWEELYPNSDKFSLYASLYINYRVPVSLIKYLS
SFYATYTFNEIVSDLIHQNDNQNTLLACIKALEVYGEQSYEIKRLVDKSSNSNIYNFM

VDKLKEVSHYAKTPPWINNSFDQIPNVMDLVDRVPNESFILPSDKEISLIYPGVDVELL
PRRSKILKEISMMSDKEKAELVKPEMDIRESKRQLDVELGRILGPSNVSEELTTSSVY
GGSRMFLCETYDYDEEDDRVYDWFTGSCEICFSKIKYKWAYVRMPNKGKLGWEGQYCSW
NCCRKDIVGEDIVTYAMIAVYEKYINKIGIQERLPDKDPSIVWASGDGIIVDEYTF

>gene_1929|GeneMark.hmm|122_aa|-|3718|4086 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MLQNIYNLSGGINSQYIFTITLAAIVIGWILVSLWTRVLENVAFGSFGYDSKSSLDSMIV
SLAVTVIFVAFVWMVDEYGVVGESEVISSDRLKSTVDNLSKVHTDHMSKNENGNPIIIF
PH

>gene_1930|GeneMark.hmm|323_aa|+|4147|5118 >NVVL01000108.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31592, whole genome shotgun sequence
MSLPENIKNFSLYPLNDEDKVRDYDYQKQLSSFWTSDEIDFTSDADDFLGLDEDIKTLVK
NVLSFFTVIDGIVIDGIFKTLIGSVSLADMMFYTAQLNIESVHVVVYAKALRDIIPKDL
GDAILSNLDTMESIKRKTDWIDAHVSSGASREHMLVVFSCVEGIFLMSPIMMIYRLASLG
IFKGLSFANEQJISKDEQLHSEYAEYNYSVSKKIPDEDEVIKIVSECVELELLTSDILPKT
SGVFHPKDFVDFIKHLGNIKLKGHGIDPIWDVEVENLASWVGVSVMTRKSNFHETKVGNY
STFSLKDDKPNVDVNVGYMLRDF

>gene_1931|GeneMark.hmm|68_aa|-|69|275 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
MATNNSFKITSKGQVTIPHNIREKLHLSTGSKIEFIIQDDAVLMIPINNKLSNLYGILPK
PKKLRPQA

>gene_1932|GeneMark.hmm|335_aa|-|465|1472 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
MITQSANQSTQPKIWWLVDSRVGNANQAIELAEKLDSEFEIKHIKYNHFALPNSLLALF
PIHVKRRTLKLLKKEIPDIISSGRRTAALAIHLKLSKGSAKIIQIMRPFDFPKEFAL
IILPQHDNFNYTLPNVVRIIGALTNIEKEIAKSQEDFETNYPAAKDFIAVLIGGSTKKNYK
LTLENAKTLGDGILTISEHLLPVFISFSRRTPENVKKYFRDKFSWPNIIDPSEGGANP
YPAILGKAEYIITTTDSISMCSAASTGKPVYVFTPANFKLKKHKFFFTQQLIDIGNVRRLL
ETTTTYLDKFDYEPLEINKIAKIIKERFLSDDGE

>gene_1933|GeneMark.hmm|140_aa|+|1795|2217 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
LSLISLRNQKEFDLVKNGRSEHSGRNLILLATKCDLIKSDKENPVFFGMKVSRRLLSKKA
VIRNKVRRRIRHLVQNVKNPKVDTDQAAFIVIPKKGFDKTKFAQLNYDFRRTFSRALRD
RNAAESESGSKASKSESAD

>gene_1934|GeneMark.hmm|203_aa|+|2601|3212 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
MSTKLNELKRHLHPGRVYRRADLAKWSSAVDRHVAQLLEDGVLTKLSAGIYHYPKKTTFG
AAPAEDDKLVA AFLKDHFRLLTSPNLYNALGLGTTQLYNEIVVYNHKRHGRFTLGGRTFD
FRMKPHFPKTVTQEFLLVDLVNLDRLAENTDKLLKRVANKALELDSNKLLRMARDYGSV
KARKFFKEVLSGGVASEKRRCQV

>gene_1935|GeneMark.hmm|113_aa|+|3321|3662 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
MSRTVTLPVKKAMWKLKGDINNARRRRVTMELMAERAGISRITLAKIEKGQSSVSIG
AYASALFVLGMTSRLENLADSEHDLVGRELEENLPKRIRLPRSSRGKHNEEP

>gene_1936|GeneMark.hmm|411_aa|+|3662|4897 >NVVL01000109.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_31865, whole genome shotgun sequence
MSSNKIYVSLQLEKETCFVGLTWCHRRGARQSSSEYFNPDWLSHPEKFALDPALQLTKGV
FHTKSDHVLFGAIGDSAPDRWGRVLMRRAEVARAKELGEAPRSLSEIDYLLGVNDEARQG
ALQFSLGADGGYLAPKDKNTIPPLVNLPRLLSATERYLNDDETAEDLKILLAPGSSLGGA
RPKASIRDQDGHLLAKFSKKDDEFNVVVWEAVALTLAEKAGIKTAEWRLAQIIGKAVLI
TRRFDRQGGRRIPFLSAMSMLGAKDNEAHSYLEIAYALAQHGGAPNQDMEELWRRIVFTV
LISNTDDHLRNHGFLYEQKNGWRLSPAYDINPVPLEVKARILSTSINFDPNTASLDVALS
VIDDFRIKKPRALEIIEVDSAVKSWRSVAKQFGLSQKEIQRMESAFRRGD

>gene_1937|GeneMark.hmm|52_aa|-|2|157 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MNKYVLLLIIMQNSIIAKQLPTNKKVSNITPVSYFVDHVRQLHQLKEN

>gene_1938|GeneMark.hmm|592_aa|-|367|2145 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MANTTTNPDFVAAPQHSSARELTQEEFLSKTKFAEPGNIIPSFWYHKIIDEKGRADITA
ITLLSEIFALYRFSSSNPCAFISNPSCSSPTLVGRALRVPEYEHFVKRFCISKEKARRAF
IKLEELCLITRDVCNIALKKGGRQNFLLLDHEFFKSCFRDPKQDVRVRMDAEHRINKA
DNTEFAEGDKYTTINLAKEINEGVTEDNSNSKLNFRKNDQIEEGIYAEERLDGDKSPSIQ
ICNHHIKKKNIKNRSMKSNFKINDLKEKEKELEIEEILEPTKSNIPPEEAGKEEVIRKKE
RKRWEKKTLDYYPLTEEDCKILQKESGREFNLNAMNEILLDISGKMKSVSFWSKKGFMS
YMSKIYSYEKRNEMLINNASFRIRTNMTKEEAKCQLIEQYLGKIESRTEVTPEMTLQRKL
AVLLKPETAYEFLRAYSSGVLQGEKYVMYLRKHVELMEIEKEVITSQVQVYGRLRVSED
CFFGTISGVEIKMPKKQTSKLPRASTGEEKKPELFGKIWGKVRRLIECLGEDNDRNW
FSNMCKVDEAKKELTVITSSDFYKDWANRNFLPELKQVSKDCGFELVGIS

>gene_1939|GeneMark.hmm|85_aa|-|2375|2632 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MCYINYIKEVIMSKSVVLSFAVPLELSIQMNVYMETKGLNRSQLIKAALRLFLEIQKKK
EDIPVKLEEIHQELLNIKKIVSKKA

>gene_1940|GeneMark.hmm|220_aa|+|3200|3862 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MKKTKVLTIANRKGAGKSTCAAHLSIEAAKNGLKTLIDLPQKTLETWWKKREEENPF
LTDINPKKIEEVIASLNEYDFDLCIIDTPGDTSVNASAGLKVADLVLIPTKPTAPDLQAI
GRTIASIKKLEKEYIFVVTQIVLRTKLALQATAVLSEFGVVAPSSFVNRVAYANAMSVGD
SATAEDKGAKKEEVELLWKFISSKLFDKGEKNAKEKVRLLNI

>gene_1941|GeneMark.hmm|90_aa|+|3831|4103 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MPKKKFDLTSDIINVLDGEANAEESLPAVLSQSRHRQQEVEAKNKNVLLTFSVEEAFRK
EYKIWCARKGLKMNEAFIKGFELLKQVDYT

>gene_1942|GeneMark.hmm|169_aa|+|4503|5009 >NVVL01000110.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32065, whole genome shotgun sequence
MPPEVETLKCYLGHIIGETIASLETRRDKLRYELSPYLEQHAVLGVVSGIKRKAKFL
IIELSNGYMLIFHLGMSGRLTMQSVYDYPQKHDHIIISFQSGDQLVFNDAARRFGMVYSCR
ADMLSEQSFLNRAGREPLEEGFDACYLLKQLAAKKSPIKTAIMDNKIVV

>gene_1943|GeneMark.hmm|262_aa|+|305|1093 >NVVL01000111.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32090, whole genome shotgun sequence
MTLKCGLAIRWLKACADILIKNYNQGGYMAKTEAKQVTLSSAKYYNILTFIFVFCLLIS
NIAEMKIINIFNIAQIGAGTLFFPLLYVLNDVITEIYGFSAARRMIFLALIFNMSFSLLM
YLIIFLPEGADWQEKEAFNTIFALSPRIMLGSLLSYFIGELVNSAIIISNLKQFRGKFFA
IRATFSTLVSSFLESILFVLIAFYGRMPDQELIKMILMLTIKVMYEILVMPATLALISF
LKETEKL DVYEKPLFKNIFPKW

>gene_1944|GeneMark.hmm|247_aa|-|1144|1887 >NVVL01000111.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32090, whole genome shotgun sequence
MNLKILAFDVSNNSCSVAISLDQEILAFEQELEPSMQAERLMVLIESVLKKARLQYQDIDY
LAVTTGPGSFTGIRIGIAAARGIIFASNGIASNIKIGITNFEASYRACEQVKDHDSAL
IMLNAYRGQLYVQEFAGGVPSAEARIIDDSELKSLQNRSGVTICAGSGLAKSYAEIKEL
DDFITSDLIILPRFPVIRALHIARLAGQKIKRGEITPIAPLYIRKPDIIIPKPF AEILAK
KRSRSGG

>gene_1945|GeneMark.hmm|289_aa|+|1947|2816 >NVVL01000111.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32090, whole genome shotgun sequence
MKIISGMSNPQLAARIAKEIGAELDTKTDNFSDGELRVQVHGDMGNDVIIVQSTSTPVN
NHLMELLLLADTTKRAGAQNITAIVPYFGYSRQDRCTYKHGPISASLVIKMIESAGVTKL
ITLDLHSSQLEGMFNIPIINLATESIFFSAIENRENSIVSPDIGGIARARNYSSLFGVD
LAIINKSRPNPNCSMNGIIGDVSGKNCIIDDIIIDGASTLCLATELLAAGALSVEAII
THAVLSGDAVSKVENSGIKQIYISDSICHNRLPPKFVTMPIHQLIGVVL

>gene_1946|GeneMark.hmm|274_aa|-|2956|3780 >NVVL01000111.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32090, whole genome shotgun sequence
MIQKLFNFILVAIFVSLIALFVYKSMYKPEILSVSLDGTKIEKNSGASSTGAQGRSKSEL
NAIKEYIINHPELILKSLEGMQKKKILELTKKSTEYLKANNSAIENADSPPVIGNLEGD
ISIVVFYDYNCSFCQKANIHTNLIESDAGIKVILRPIPIILGGSSMYVAKVMLAVQRISP
AKFLAIHNDLMKMKLINKDSVKSLISKYEIDYSLVDNEVNSYSIRQQINKNF EFAKGLGI
KGAPSHVINGKFIPGMLTLDKLSIVKH IRAAKK

>gene_1947|GeneMark.hmm|367_aa|-|3899|5002 >NVVL01000111.1 Rickettsiales
bacterium isolate NORP64 Contig_source1382A_32090, whole genome shotgun sequence
GNKIFINTGLIINHPDPDILRGIIAHEIGHILGRHVVRNQEIENYQKASIGATALGLVA

AMSGSADAGMAVVLGGSHFARRSIYAYSRTFESSADQTAIRLLEKSSHVIGLIKFFEQV
RKLQATGIDNPYESTHPLSNDRVTILKSFNKRSKFQLSQNHDDIVHKYQRSSAKLAAFTL
EIDNIFKHSYVTQTKDITTYMNAIKSFRMGSFDDSLNYINQLIIKHPDDPYYHELKGQLY
FEAGKGDALVEYKIAIETRPDDELILLGKAIVGITKHIDRPGYLEQFHKDLERVLQKNPD
SVLALHYNAIYYNKMGMVGEGLSAALIALKSGRIADARKMASAAKNALAKKSVDWYRAG
DILAATE