

MAS 5.0 - Genes high or low expressed in TB-interface compared to TA-area and fold change using MAS 5.0

Gene	Fold change
Ibsp	7.18387598
Tnfsf11	5.29272898
Prm1	4.06678931
Mmp13	4.0383395
NA	4.03646484
Anks1b	4.02158092
Ibsp	4.01278612
Aftph	3.90731419
NA	3.83245096
A330021E22R	3.79710275
A330076H08R	3.78796221
A730017C20R	3.78313628
Zic1	3.73301077
Drd1a	3.66689669
Alpk2	3.63979797
NA	3.53891773
NA	3.48117903
Smoc2	3.4281037
1700063D05R	3.40678964
Pm20d1	3.39134641
NA	3.33552969
Kng1	3.31400179
Glrb	3.29771471
NA	3.29732595
Alx1	3.29483922
Vcpip1	3.24790109
Gucy1a3	3.24728714
2210418O10R	3.23756785
Gm829	3.23070358
Trp53	3.22496369
Tmem30b	3.20727467

Lrriq3	3.20071948
Cyp3a44	3.1936776
Nfatc2	3.16387146
9130024F11Ri	3.16092857
Lmod2	3.15975158
Kif5c	3.15382648
Col24a1	3.14891545
NA	3.1451532
NA	3.13816784
1700112C13R	3.12053388
Ston1	3.11252934
Camk2d	3.10366063
Napsa	3.089963
NA	3.06949293
Pcdhb14	3.05245687
Zfp820	3.04329668
NA	3.0134702
NA	2.9979361
Gm7072	2.98309562
Tmem202	2.96792962
Cgref1	2.95442096
4933400A11R	2.95132702
NA	2.94152686
6330407I18Ri	2.93996057
NA	2.9206226
Cacna1s	2.90796172
NA	2.90774477
BC068157	2.90760634
Hoxc5	2.90668624
Angptl1	2.90608016
D7Erttd715e	2.90046048
Ceacam13	2.89013901
Cnr1	2.88428166
Abca13	2.88139384

Zfand5	2.87582967
Olah	2.86007284
NA	2.85640891
Ptx3	2.84605394
Chchd7	2.84483415
Psmc6	2.8415109
D030020J04Ri	2.84059726
NA	2.8331309
Ifitm5	2.82352551
4930473A06R	2.81621872
Cox6a2	2.8162106
Cgref1	2.80304077
NA	2.80260978
Smpx	2.79856231
Tmod4	2.79706205
Col11a1	2.79375842
Slfn1	2.77870269
7630402I04Ri	2.77203038
1110020G09R	2.76952444
NA	2.76320747
Grid2	2.76306377
Egfr	2.76285197
Ptn	2.76246012
Mb	2.75609593
NA	2.75078007
NA	2.74980866
Chst9	2.74303029
Chsy3	2.74141519
Mcpt1	2.73838527
NA	2.73279958
NA	2.72128142
4930570G19R	2.71458704
Ccnb2-ps	2.71321445
4933436I20Ri	2.71238974

3110006E14Ri	2.71144797
NA	2.70532466
Ccdc28a	2.69914174
NA	2.69912459
Rufy2	2.68847327
Prss35	2.68100985
Luc7l2	2.67931989
Pabpc5	2.67691969
Ifnab	2.6649045
Pfdn5	2.65953527
Bmp10	2.65709896
Hapln1	2.65598776
Slain1	2.65206358
NA	2.64580418
NA	2.64210086
Ccdc77	2.6361589
Myst4	2.63441726
Gm11992	2.63314859
Ptgis	2.63012655
Arhgap26	2.62281953
Smpd3	2.62267502
LOC433197	2.62180201
Dzip3	2.61920854
A530088H08R	2.61187327
D9Erttd12e	2.60730004
Mpo	2.60307011
D10Erttd494e	2.60254124
Chic1	2.59862903
Ngp	2.59652374
2810449G22R	2.59445549
Lonp2	2.59384889
Triml1	2.59052245
Ckm	2.58786603
B230217C12R	2.58731923

Col17a1	2.58621681
4933408K01R	2.57617021
Dnm1l	2.56584283
Tbata	2.56482742
NA	2.55751922
NA	2.55623229
Lrriq3	2.55275965
Kif20b	2.55232036
Myb	2.54351647
3632451O06R	2.54186111
Mphosph8	2.54112323
Rpusd2	2.54068211
Serpina7	2.53932585
Gm266	2.53658926
NA	2.53385482
Bsnd	2.53120435
Mpzl2	2.53078053
D030051J21Ri	2.52842923
Ube2k	2.52702196
C79256	2.52364664
A630033H20R	2.51770605
4930434E21Ri	2.51484537
Cecr2	2.50948476
Tia1	2.50752717
NA	2.4997931
Eif3h	2.49908239
Col8a1	2.49717559
Gabrb2	2.49153543
1110059G02R	2.49042362
Plch1	2.49027667
Wif1	2.48078228
Ptk6	2.47775365
AW125646	2.47223921
AU022706	2.47041679

Slc26a1	2.47001239
Neurod4	2.46635923
Olf1509	2.46456346
NA	2.4592951
NA	2.45229232
2810019C22R	2.44859613
NA	2.44249191
AU021880	2.43247544
Tmem100	2.42838847
Arhgef7	2.42727623
Lrrc6	2.4228077
Bnip2	2.42197213
NA	2.41629686
NA	2.41437973
Ccr9	2.41419157
Phip	2.41261504
Efna2	2.41222425
Enpep	2.40536631
Asb4	2.40358938
Napb	2.40306857
Gpr101	2.40188875
AU015438	2.39986321
2610037D02R	2.39887477
6720489N17R	2.39881715
NA	2.38562478
B230117O15R	2.38444714
Chmp4c	2.38318513
Tcea3	2.38058563
Stxbp6	2.38031531
4930442E04Ri	2.37939513
4921517L17Ri	2.37806572
Clca2	2.36915235
NA	2.36848573
Armc3	2.36752746

Clint1	2.36614322
5730526G10R	2.36465572
Hoxd4	2.36330666
Mup3	2.35796604
NA	2.35446697
BC068281	2.35258732
BC003883	2.34996138
Kbtbd7	2.34747758
Iyd	2.34552146
1110028C15R	2.34268581
NA	2.33465379
Sln	2.33314583
BB144871	2.33277411
Rab40b	2.33192572
Syt6	2.33028549
4921507P07Ri	2.32569298
Hnf4g	2.3253743
NA	2.32490558
4930404F17Ri	2.32333217
Olfr690	2.32110839
Cd28	2.31818043
Rabgap1	2.31795693
D11Erttd326e	2.317121
Pabpc1l	2.31482281
Klhl5	2.31460694
2610001J05Ri	2.31439377
D430047L21R	2.30801825
Slc6a11	2.30766209
Ints8	2.30239048
Txlnb	2.30097297
Ebf3	2.3007917
NA	2.29863327
BC031781	2.29660433
NA	2.2965474

Trav12d-1	2.29650242
Gpr26	2.29322035
NA	2.29209189
Lrrn1	2.29047203
Ar	2.28832341
NA	2.28825708
Dsc2	2.28799494
NA	2.28686749
NA	2.28656706
Kalrn	2.28486245
Slc7a15	2.2833924
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NA	2.27988244
Gm2824	2.27617052
Gcg	2.27612419
NA	2.27549163
NA	2.27194035
NA	2.27028093
NA	2.27026069
Rae1	2.26978513
Bdkrb2	2.26962401
NA	2.26477258
Pygm	2.2642001
Stxbp4	2.26348779
Xiap	2.26270215
Zfp558	2.26266362
Opcml	2.25989984
NA	2.25985573
NA	2.25670442
NA	2.25514623
NA	2.25464123
Cd55	2.25406555
Zcchc18	2.25010749
Neur1a	2.24959763

Tmprss3	2.24716985
Tc2n	2.24687513
NA	2.2463573
Slc6a15	2.24572833
Prdm8	2.24498305
Masp2	2.24276728
BC016495	2.24161656
Trdn	2.24040704
6530401N04R	2.23829648
Cldn2	2.23230248
Itgb2l	2.23225493
NA	2.23158453
Olf315	2.23002667
Ear3	2.22848681
Foxp2	2.22728372
4930444P10Ri	2.22604139
NA	2.22189475
Krt19	2.22133327
Lum	2.22065639
Asphd1	2.217063
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9230104K21R	2.21586844
NA	2.21266998
Gm5595	2.21180203
1700113O17R	2.20781331
Pitx1	2.20638682
Trip12	2.19973809
Polh	2.19809694
Pcdhb1	2.19607068
Gira1	2.19595132
Ptprz1	2.19502561
NA	2.19409612
Dbf4	2.19401431
6720420G18R	2.19233136

Nktr	2.18872398
Ltb4r2	2.18815238
NA	2.18766898
V1rb2	2.18532781
Zfp715	2.18523077
Igfbp5	2.18520634
Pftk1	2.18471749
Tmem56	2.1824494
NA	2.18032252
NA	2.18022763
C030007D22R	2.17830727
Dkk2	2.1782543
Spata17	2.17764143
NA	2.17751109
Meig1	2.17568084
Clca1	2.17360416
Ntn3	2.17257095
9330184L24Ri	2.17102319
A930041I02Ri	2.16996068
She	2.16962197
Plagl1	2.1670916
Edil3	2.16513327
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D8Ert56e	2.16310455
Col11a1	2.1629944
Coro2b	2.16290011
NA	2.16274346
Pgam2	2.16234429
Sema6d	2.16116306
NA	2.1603001
Clmn	2.15989398
Tmem132d	2.15975544
Slc6a20b	2.15960959
Nrxn3	2.15933098

NA	2.15915146
Cntn2	2.15870188
Igdcc4	2.15805881
9330118A15R	2.15490749
Arhgap5	2.15363223
Top2b	2.15186151
Tbc1d30	2.15168615
Hook1	2.15120958
Tmem167	2.14897354
Mmp8	2.14751802
A730056A06R	2.14584529
4930518F22Ri	2.14415661
Nphs2	2.14251981
Psmg4	2.1400761
Slfn1	2.13837122
D8Ertd575e	2.13614308
NA	2.13053387
Rptor	2.1272434
Spaca4	2.12365267
Dmrta1	2.12322647
NA	2.12063307
2310001H17R	2.11842232
Lyrn5	2.11805439
Panx3	2.1174568
Fgf14	2.11694693
Cpn1	2.11116586
Selp	2.09764409
Ttc14	2.09650139
Tbc1d14	2.09573804
Zfp820	2.09421986
Cab39l	2.09325433
4933432K03R	2.09264647
Zfp800	2.09243459
Kras	2.09092614

1810010H24R	2.09086598
NA	2.09042781
Chrna7	2.08996646
Rnf17	2.08868846
AV099323	2.08824286
Fcer2a	2.08581286
NA	2.08468902
Slc6a1	2.08416932
Ckmt1	2.08323371
C230085N15R	2.0826065
A530047J11Ri	2.08184977
Zfp28	2.07875729
Lrrc52	2.07694684
Zfp28	2.07594698
Man1a2	2.07452823
1700123L14Ri	2.07426714
Colq	2.07363164
Cntn6	2.071773
Baalc	2.07017104
Tdrd9	2.0679048
Kcnma1	2.0654497
1700003E24Ri	2.06533829
Parp6	2.06416846
NA	2.06314523
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Oog3	2.06161287
Serpina5	2.06051055
A530058O07R	2.05987994
NA	2.05983702
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1700019P21Ri	2.05664167
Atxn10	2.05351647
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Apbh	2.05289434

Pclo	2.05190563
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Mnt	2.05047697
Tmsb15a	2.04918695
NA	2.04530959
2610034M16R	2.04329343
AA517858	2.04269441
Trim44	2.04256723
Sfrp4	2.03893949
Adamts1	2.0379366
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A330106J01Ri	2.0359175
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NA	2.03104073
Rfx2	2.02991788
D8Ertd620e	2.02929755
Dlg1	2.02622388
NA	2.02510594
Myot	2.02376043
Efhd1	2.02257335
Hpgd	2.02177251
Kcnc1	2.02059545
2900022B07R	2.01924812
Slc13a5	2.01911147
NA	2.01814315
NA	2.0154862
Ltf	2.0142564
Rragd	2.01319871
NA	2.01318079
Armcx4	2.01312007
Pip	2.01245886
6430500D05R	2.01244511
Klra7	2.01141666
Pnliprp2	2.01061629

Pi15	2.01043316
A630038E17R	2.01018991
Pcdhb6	2.00930025
Usp50	2.00910687
NA	2.00882407
NA	2.00842329
NA	2.00803086
9130007G19R	2.00697899
BC054059	2.00622081
Slc5a9	2.0053714
Gm10454	2.00478226
Cct4	2.00257468
4933424H11R	2.0013033
Nfxl1	2.00086776
2900052N01R	2.00055099
NA	2.00041319
6330534C20R	2.0002712
Aifm3	-2.00000437
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Ighg	-2.0040886
F2rl2	-2.00443173
Fndc7	-2.00444977
Krt73	-2.00448491
Sim2	-2.00497391
6430710M23R	-2.00538518
4931402G19R	-2.00617183
NA	-2.0062817
Zfp804a	-2.00647852
4930480K15R	-2.00694188
4833408G04R	-2.00774647
Kcnq1ot1	-2.00879284
2310038E17Ri	-2.00964594
4832406H04R	-2.01038096

Nrcam	-2.01112061
Olfml1	-2.01212096
Gm996	-2.01462521
Anks1b	-2.01578653
Kcnu1	-2.01608649
Map6d1	-2.01651757
Cobl	-2.01692825
NA	-2.01715688
Satb1	-2.01869579
Kcna1	-2.01996725
4933409F18Ri	-2.0212369
A830010M09R	-2.02174254
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Zfp385b	-2.0218483
Setd4	-2.02300697
4933431I19Ri	-2.02321974
Klk1b3	-2.02455235
Pfn4	-2.02490104
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Sult6b1	-2.02548392
Dnahc6	-2.02578823
NA	-2.02596417
NA	-2.02782644
H2-Aa	-2.02785485
Trex1	-2.02811042
4931409D07R	-2.02813352
Klk1b5	-2.02836528
Slc30a10	-2.03070012
Api5	-2.03134807
AA589418	-2.03141899
Krtap14	-2.03147207
Gpr158	-2.03295832
Bcas3	-2.0332874
2810410P21Ri	-2.0337031

NA	-2.03467902
1700066B19R	-2.03653611
AU020745	-2.03833995
Prl	-2.03963297
4933416I08Ri	-2.04024924
Polr1a	-2.04306129
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Aqp3	-2.04329622
NA	-2.04457566
6330526H18R	-2.04483989
Nsun7	-2.0459956
Psg19	-2.04615155
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2310058F05Ri	-2.04866571
Arhgef15	-2.04876547
Nkx2-3	-2.05011672
Nudt9	-2.05015783
1810006J02Ri	-2.05110513
NA	-2.05114563
C130090K23R	-2.05178033
C030007D22R	-2.05262633
Kcnj5	-2.05397932
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2310007L24Ri	-2.05691936
Prex2	-2.05751803
Zeb1	-2.05808424
9530003O04R	-2.06115077
AI194348	-2.06195552
Slco6c1	-2.062589
V1rd3	-2.06415056
Ganc	-2.06445461

1110014L15Ri	-2.06647487
Ccdc79	-2.0667887
Gdf3	-2.0671206
H2-Ab1	-2.06754768
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NA	-2.06777979
Lin28b	-2.06857836
NA	-2.06915508
Prdx6-rs1	-2.06985973
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Klkb1	-2.07140702
Igsf11	-2.07224031
4930521A18R	-2.07331874
Cd226	-2.07380355
NA	-2.07464474
4930405D01R	-2.07531607
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Trhde	-2.07598616
Dnahc8	-2.07688554
Cpa2	-2.07716296
C77370	-2.07778398
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Iffo1	-2.08038727
Myf5	-2.08208128
Kcnip1	-2.08241409
Ccdc7	-2.08247374
NA	-2.08303484
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1700054K19R	-2.08342379
NA	-2.0835644
Wnt2	-2.08484891
Zfhx2as	-2.08581399
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Akr7a5	-2.08828594
Aldoc	-2.08836623
NA	-2.08844828
Abcd2	-2.08874607
5730510P18Ri	-2.08902861
Grip1	-2.09005838
Veph1	-2.09071706
B230325K18R	-2.09072979
NA	-2.09132408
Cacna2d2	-2.09216987
AI593442	-2.09361405
9330109K16R	-2.09546793
NA	-2.09624028
4930544N03R	-2.09668306
NA	-2.09758221
Zfp606	-2.09785578
BC053393	-2.09805936
Iqcf3	-2.09806103
Ttn	-2.09902574
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NA	-2.10122617
5033417F24Ri	-2.10156088
4930439G18R	-2.10319773
Krt17	-2.10379996
2810408A11R	-2.10386098
Pdzk1	-2.10464101
Il1f8	-2.10546481
Lsamp	-2.10555085
Pglyrp2	-2.10612289
Cdh8	-2.10652676
Kcnj3	-2.10665315
Zfp248	-2.10700202
9430014N10R	-2.1070769
NA	-2.1074585

Iqcf1	-2.10761405
Ambp	-2.10841859
Rit2	-2.1095841
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Gad1	-2.11084855
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Gm10523	-2.11244871
C530028O21R	-2.11285311
Ryr3	-2.1133972
Igh-6	-2.11354351
4933428L01Ri	-2.11395203
Cpz	-2.11451779
Churc1	-2.11662471
Rassf4	-2.11767821
1700016K19R	-2.11816795
Hdac10	-2.11878958
NA	-2.12089405
Angptl4	-2.12093627
Cabyr	-2.12098024
Gnal	-2.1215137
Tpbpb	-2.12167418
NA	-2.12178086
Cd164l2	-2.12215613
NA	-2.12277664
1810021M19R	-2.12287758
NA	-2.12293941
4933439N06R	-2.12365559
4930484H19R	-2.12377189
Iqcf4	-2.12412545
Lysmd2	-2.12509361
NA	-2.12525026
Actl7a	-2.12570411
Hoxd10	-2.12838605
NA	-2.12896118

4930471M23R	-2.12913668
6330412A17R	-2.13022335
7630403G23R	-2.13124775
Slc22a9	-2.13193851
NA	-2.13260366
5033423K11R	-2.13266751
Spry3	-2.13386045
Drd3	-2.13412746
Rims2	-2.13460884
Laptm5	-2.13572983
NA	-2.13634137
Gm9475	-2.13645591
NA	-2.1380241
ENSMUSG0000	-2.13815254
Dtna	-2.13866087
Spag16	-2.13974013
Abcc10	-2.13992075
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4930448E06Ri	-2.14324522
NA	-2.14386947
NA	-2.14412908
4930573O21R	-2.14415454
NA	-2.14445288
Fn3k	-2.14463262
NA	-2.1446771
Ccr4	-2.14533062
4933432K03R	-2.14550782
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4930523C07R	-2.14688033
Map2k6	-2.14733628
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Igfals	-2.1511224
Slc8a1	-2.15184523

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Otop1	-2.15778711
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9130401L11Ri	-2.16016391
Wnt8b	-2.16164708
C86371	-2.16365949
Pik3ap1	-2.1644371
2010003K11R	-2.16576908
AU022077	-2.16601645
Muc4	-2.16663395
9230110F11Ri	-2.16671324
Lipf	-2.16738474
NA	-2.16799098
Defb5	-2.16887184
NA	-2.1692674
2610037D02R	-2.17017002
4930473O22R	-2.1708714
Cadm2	-2.17284257
Pdc	-2.17294046
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Gm10461	-2.17817258
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Pfpl	-2.17955798
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4933406C10R	-2.18078061
E230029C05R	-2.18128619
Pck1	-2.18144017

Slc39a5	-2.18213308
Drd2	-2.18510397
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Tmem162	-2.18754183
Six6os1	-2.18762435
NA	-2.1885942
Krt71	-2.18880254
C86753	-2.18928766
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Snap91	-2.19224556
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Smcp	-2.19618426
Slc27a5	-2.1962672
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Krtap16-8	-2.19704139
Sh3bp5	-2.19714131
Fam5b	-2.19738402
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Stmn2	-2.2005564
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Pax6	-2.20228333
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Icam5	-2.20621309

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Slc5a3	-2.2095793
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Erbp4	-2.23908239
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Tjp3	-2.24434677
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Cer1	-2.24580434
Dis3l2	-2.24630638
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Speer4b	-2.24768754
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St8sia3	-2.29485582
Ptchd2	-2.29739513
Cnpy1	-2.29813192
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Ddx47	-2.30443896
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Cd2	-2.32034288
Ndst4	-2.32066013
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Rtp3	-2.38013327
Eda	-2.38054513
Nrk	-2.38110894
Ceacam1	-2.38218478
6330415G19R	-2.38278929
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Zfp353	-2.38337217
Trpm3	-2.38459452
Igf2bp3	-2.38573798

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Gpr177	-2.38737813
Sycn	-2.38869621
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Gpr161	-2.39063179
Hesx1	-2.39219451
Gje1	-2.39326533
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Otc	-2.40522877
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Adam10	-2.40847103
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Klk1b4	-2.45502311
Zfp612	-2.45535601
Ptpr	-2.45575333
Gm6484	-2.45621256
Htr3b	-2.45708436
Plac8l1	-2.45932168
Cabyr	-2.45982321
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Tnks	-2.46766266
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Rnf122	-2.47565681
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Boll	-2.48065403
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3110049I03Ri	-2.50445151
Dock3	-2.50530883
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Rnf17	-2.50692864
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Alg5	-2.56153418
Ntng1	-2.56296525
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Gm941	-2.56682952
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V1ra5	-2.57224718
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Cyp7b1	-2.58339502

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Ankrd10	-2.58659698
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Trhr	-2.59393329
Dvwa	-2.59453544
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Lmtk3	-2.59677897
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Plcb4	-2.59868416
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Zap70	-2.60502192
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Cyp4x1	-2.6106205
Lhx2	-2.61092192
Bpil2	-2.6142407
Lefty2	-2.61494999
Rxra	-2.61744978
Foxp2	-2.62289611
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Myh11	-2.6248114
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Syce1	-2.62838976
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Runx3	-2.63261214
Nrg3	-2.6340473

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Hsf4	-2.65583707
Clmn	-2.65913873
Sult1a1	-2.66485653
C4bp	-2.67039093
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Gm7844	-2.67602664
C77545	-2.67672655
NA	-2.6783486
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Calb1	-2.68007681
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NA	-2.68475946
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Six6	-2.71175465
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Etl4	-2.72282948
Krtap5-1	-2.72301057
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4933436H12R	-2.76031731
Pcdhb18	-2.76401133
5031426D15R	-2.76860281
Ccdc105	-2.77092486
Kif24	-2.77237036
Cml3	-2.77253742
Fam84a	-2.7755407
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Ebf1	-2.78242215
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Dntt	-2.81368898
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Slc6a14	-2.84797246
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Epha5	-2.8991577
BC006965	-2.89936645
Sstr4	-2.9087996
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Tal2	-2.91188817
Atp1a2	-2.92000685
4833419A21R	-2.92146626
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Prkce	-2.97147168
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Klra15	-2.99456873
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Rragd	-2.99649558
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Dgkg	-3.01288337
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Six6os1	-3.02866065
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Ndn	-3.0656792
Gm941	-3.07427425
Orly	-3.07721124
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Rp1	-3.09885377
Opr1	-3.10114834
C80171	-3.10263913
Heatr7a	-3.11017565
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Brwd3	-3.13587395
A230048O21R	-3.1525744
NA	-3.17480913
Grpr	-3.17553477
Hsd17b13	-3.17665799
Tbx5	-3.17777067
Osbpl7	-3.17887537
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Pde1c	-3.18966048
NA	-3.20170622
Tcrb-J	-3.2125569
Fbxw14	-3.2231137
Eya4	-3.22374623
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NA	-3.2347947
Krtap8-1	-3.24490202
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4933413C19R	-3.25451426
1700065D16R	-3.27650003
Catsper3	-3.28311255
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4930518J20Ri	-3.29794273
Igf2bp3	-3.30226746
C80918	-3.30509213
Peli2	-3.30515282
Tnfaip2	-3.30771745
Txn1	-3.31040575
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Dsc3	-3.34682989
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Gpr12	-3.38516831
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Dll3	-3.53874224
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Maf	-3.60090317
NA	-3.60898999
Rshl1	-3.63004202
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V1ra2	-3.65209882
Camta1	-3.74405911
D1Pas1	-3.79006088
C78878	-3.79278611
NA	-3.8002317
Gm12330	-3.80381309
Krtap16-1	-3.82369985
NA	-3.91100511
NA	-3.93496855
Adora3	-3.96514501
NA	-3.98255782
NA	-4.04218105

Cnpy1	-4.07143971
NA	-4.07507105

**RankProd algorithm - Genes identified by RankProd to be down regulated
in TA-area compared to TB-interface with $p < 0.05$**

gene.index	RP/Rsum	FC:(class1/c pfp	P.value	
16948	193.7133	16.8122	0.97	0
17120	212.4308	13.9657	0.655	1.00E-04
13575	225.1103	15.6181	0.4967	1.00E-04
10275	245.3593	13.8593	0.475	1.00E-04
15798	323.709	13.3991	0.796	2.00E-04
7402	337.4321	14.1595	0.7617	2.00E-04
8652	347.4457	12.5716	0.7057	2.00E-04
5497	360.665	13.8332	0.69	3.00E-04
10330	377.9168	12.1333	0.7033	3.00E-04
3450	381.6138	11.0219	0.653	3.00E-04
8636	405.0839	10.1741	0.7091	4.00E-04
3050	423.1008	7.8271	0.74	4.00E-04
15815	429.0964	10.5786	0.7	4.00E-04
5741	441.5175	9.9205	0.7029	5.00E-04
10918	445.6528	11.6216	0.6727	5.00E-04
13997	447.7275	9.8351	0.64	5.00E-04
14530	462.7845	10.4824	0.6582	5.00E-04
11054	472.5443	10.4481	0.6656	6.00E-04
11329	476.4601	12.3809	0.6447	6.00E-04
18718	484.3879	9.884	0.6485	6.00E-04
8355	489.501	9.4801	0.6419	7.00E-04
13162	492.964	7.7437	0.6241	7.00E-04
5236	504.6673	9.8646	0.6383	7.00E-04
14758	520.0669	9.5435	0.6583	8.00E-04
15586	525.628	11.1571	0.6504	8.00E-04
11222	531.0311	7.8434	0.6419	8.00E-04
472	544.9844	9.902	0.6659	9.00E-04
6973	551.4139	8.5674	0.6596	9.00E-04
3827	559.0866	7.7879	0.6628	9.00E-04
15408	561.1012	8.4398	0.6467	9.00E-04

7365	565.5999	9.0421	0.6432	0.001
19568	579.098	10.3697	0.6644	0.001
1985	582.6036	6.7635	0.6558	0.0011
14920	592.9941	9.7345	0.6679	0.0011
19196	596.0217	9.69	0.658	0.0011
17759	603.0443	8.8924	0.6597	0.0012
4318	623.2881	9.0351	0.7116	0.0013
17109	639.5901	5.2311	0.7416	0.0014
7606	640.3447	9.124	0.7254	0.0014
13215	649.8466	9.056	0.7368	0.0014
17392	661.1858	8.1465	0.7539	0.0015
2660	668.1926	9.8844	0.7595	0.0016
10261	669.4596	8.7901	0.7465	0.0016
8650	670.1427	9.2699	0.7316	0.0016
3254	678.7379	8.0718	0.7371	0.0016
19602	684.598	7.6045	0.7376	0.0017
16546	689.8323	8.4227	0.7396	0.0017
8597	693.6453	9.338	0.7363	0.0017
1682	697.8392	2.2586	0.7322	0.0018
14857	712.4135	6.7755	0.7612	0.0019
4971	723.4511	7.5099	0.7769	0.0019
14831	726.838	7.972	0.7715	0.002
14282	727.6033	7.7232	0.7587	0.002
17761	730.8685	8.6837	0.7539	0.002
5045	732.5229	5.9474	0.7447	0.002
4499	733.0792	7.5817	0.7334	0.002
12069	739.3798	6.5405	0.7391	0.0021
14266	740.6985	6.4835	0.7307	0.0021
13822	742.906	8.2669	0.7258	0.0021
3358	743.3732	8.5899	0.7153	0.0021
7422	743.535	9.0491	0.7038	0.0021
15298	745.5435	7.5762	0.6956	0.0021
1449	751.8186	6.4089	0.7033	0.0022
17208	758.9477	3.7213	0.7108	0.0022

8467	760.4332	6.7754	0.7037	0.0022
4814	762.6046	8.581	0.6976	0.0023
9566	762.8559	8.6349	0.6878	0.0023
11979	771.2564	7.7524	0.6966	0.0023
7331	775.8405	7.6244	0.6968	0.0023
15211	783.0393	7.1959	0.7069	0.0024
7462	798.3704	8.0338	0.7359	0.0026
18377	799.4436	7.9334	0.7278	0.0026
14510	803.3384	8.1605	0.7263	0.0026
4311	804.1347	7.4225	0.7185	0.0026
4563	806.1501	8.0113	0.7136	0.0026
496	821.4414	6.8801	0.7438	0.0028
8453	824.3105	6.3416	0.7414	0.0028
213	830.1315	8.3726	0.7426	0.0028
20133	839.2988	6.3909	0.7556	0.0029
1478	840.3666	5.4321	0.7489	0.0029
17959	846.1811	6.9871	0.7521	0.003
9807	848.7338	8.0788	0.7485	0.003
8709	848.8609	7.1159	0.7396	0.003
7420	861.4775	7.0577	0.761	0.0031
7543	864.4633	5.1937	0.76	0.0032
7300	866.8025	6.8473	0.7565	0.0032
15510	892.1501	7.2743	0.8036	0.0034
14234	896.4601	6.94	0.8036	0.0035
14456	904.7962	6.8145	0.8137	0.0035
15545	907.4892	6.966	0.8102	0.0036
3622	911.4208	7.4599	0.8091	0.0036
2800	928.1276	7.1655	0.8383	0.0038
13792	935.0557	7.8704	0.8482	0.0039
3327	938.0644	6.7398	0.8467	0.0039
10973	939.8418	6.6237	0.8412	0.0039
7478	942.0314	4.6719	0.8364	0.0039
18549	942.5543	7.0038	0.829	0.0039
4270	943.1975	4.13	0.8221	0.0039

19806	947.7548	6.9435	0.8237	0.004
14496	948.0016	6.0126	0.8161	0.004
11481	950.7527	7.9699	0.8136	0.004
2238	952.5798	1.8776	0.8091	0.004
3409	954.0189	7.0308	0.8036	0.004
7085	968.9806	7.461	0.8268	0.0042
4995	972.4054	5.7722	0.8259	0.0042
2975	973.5752	6.5512	0.8202	0.0042
18567	975.0206	4.8757	0.8157	0.0043
4949	976.7831	7.18	0.8131	0.0043
4197	978.2579	5.2051	0.8082	0.0043
511	982.5718	2.4103	0.8088	0.0043
19435	985.1269	7.5141	0.8064	0.0044
11073	990.6872	7.26	0.8093	0.0044
1573	995.1837	5.8851	0.8111	0.0045
5342	1000.1706	7.1207	0.8143	0.0045
9524	1002.2519	5.9306	0.811	0.0046
4255	1004.5629	6.0746	0.8092	0.0046
19020	1009.203	6.2117	0.8138	0.0047
11302	1015.1549	5.5833	0.8185	0.0047
19458	1016.0979	6.5325	0.8138	0.0047
8595	1018.1608	4.9566	0.8108	0.0048
3445	1020.0574	6.9679	0.8082	0.0048
4022	1020.5665	5.0751	0.803	0.0048
11332	1030.3032	6.9961	0.8167	0.0049
3436	1032.9179	3.6718	0.8153	0.0049
11555	1036.5376	4.0787	0.816	0.005
17872	1037.9558	6.538	0.8129	0.005
11150	1039.2515	5.1207	0.8083	0.005
14807	1045.8559	6.8323	0.8166	0.0051
15192	1048.7637	6.74	0.8162	0.0051
1445	1052.1035	5.6417	0.8166	0.0052
11832	1053.1761	7.3667	0.8118	0.0052
15407	1058.2841	3.8215	0.8174	0.0053

6140	1062.6321	5.2321	0.8183	0.0053
801	1062.9479	4.5702	0.8129	0.0053
6730	1067.2238	4.4871	0.8152	0.0054
11351	1068.9763	5.8614	0.8121	0.0054
9400	1070.4883	5.841	0.8094	0.0054
16969	1070.7503	4.3889	0.8043	0.0054
806	1072.7332	6.6782	0.8033	0.0055
14162	1073.8042	6.5044	0.8	0.0055
19212	1075.7003	6.8255	0.7988	0.0055
18270	1079.0171	5.3521	0.7999	0.0056
4547	1080.368	6.7928	0.7969	0.0056
15566	1080.5367	5.7157	0.7913	0.0056
4409	1084.2719	6.6729	0.7926	0.0056
315	1088.0087	6.0068	0.7947	0.0057
12220	1091.6912	6.6778	0.7968	0.0057
7783	1093.7095	3.4448	0.7955	0.0058
15044	1107.6622	6.4654	0.8183	0.006
15581	1109.493	5.7059	0.8159	0.006
2789	1110.733	5.4777	0.8128	0.006
18639	1111.502	6.2884	0.8088	0.006
7222	1111.7514	6.3166	0.804	0.006
18328	1113.3493	6.0493	0.8021	0.006
3305	1116.6836	6.394	0.8014	0.0061
6084	1119.2188	4.9398	0.8015	0.0061
4730	1119.8573	6.172	0.7971	0.0061
16765	1123.1622	6.123	0.7982	0.0062
8364	1126.8616	6.4074	0.7994	0.0062
13496	1128.5482	6.3849	0.7981	0.0062
5320	1130.3195	6.2318	0.7968	0.0063
2097	1131.5847	6.1089	0.7944	0.0063
13803	1133.1659	6.5497	0.7926	0.0063
17777	1134.1778	6.1077	0.7898	0.0063
2443	1134.181	5.7408	0.785	0.0063
20186	1144.3521	4.7685	0.7986	0.0065

12351	1144.3654	6.1616	0.7938	0.0065
7465	1146.1469	6.1366	0.7933	0.0065
16489	1146.8905	6.126	0.7901	0.0065
20435	1153.7259	5.0305	0.7977	0.0066
4748	1154.0233	6.1599	0.7932	0.0066
2493	1159.7059	5.4402	0.7976	0.0067
18797	1160.1806	5.5622	0.7936	0.0067
2333	1164.5254	4.3723	0.7977	0.0068
17460	1172.2155	3.3711	0.8067	0.0069
19274	1174.2822	5.1973	0.8055	0.0069
12041	1174.8594	6.6201	0.8018	0.0069
13391	1175.072	5.7623	0.7978	0.0069
3904	1183.5121	5.0875	0.807	0.0071
2362	1185.6767	2.4583	0.8055	0.0071
4315	1186.1432	6.2015	0.8019	0.0071
4000	1187.2889	5.9935	0.7997	0.0071
13607	1188.1127	4.9596	0.7972	0.0071
14674	1189.69	5.6547	0.795	0.0071
1871	1192.3355	6.366	0.7952	0.0072
12915	1195.5502	5.4742	0.7963	0.0072
13123	1200.226	6.1834	0.8002	0.0073
9451	1201.1691	5.9012	0.7978	0.0073
12678	1201.2969	5.7394	0.7938	0.0073
1943	1201.3426	6.168	0.7897	0.0073
4228	1202.2561	5.4832	0.7873	0.0073
17666	1202.6429	6.0313	0.784	0.0074
6217	1204.4949	2.8607	0.7833	0.0074
17921	1205.436	5.3506	0.7805	0.0074
11118	1206.8739	5.8474	0.7785	0.0074
18222	1207.1659	5.2154	0.775	0.0074
6385	1210.2963	5.9034	0.7756	0.0075
19997	1214.1185	6.1881	0.7774	0.0075
15318	1214.5023	5.7455	0.7743	0.0075
3957	1216.3513	6.2077	0.7737	0.0076

5032	1217.3442	5.1702	0.7718	0.0076
4159	1217.6047	4.4829	0.7683	0.0076
18756	1218.3544	6.4452	0.7657	0.0076
5113	1219.4485	5.9535	0.7639	0.0076
15573	1220.0028	6.3663	0.7612	0.0076
9935	1224.0272	6.1764	0.7646	0.0077
8497	1228.8092	5.7431	0.7672	0.0078
18240	1229.439	6.2077	0.7649	0.0078
9823	1230.9486	5.3755	0.7634	0.0078
3408	1233.6929	6.1667	0.7646	0.0078
12018	1233.9521	5.8541	0.7613	0.0079
8508	1236.9513	5.4877	0.7619	0.0079
14392	1238.6848	5.9269	0.7611	0.0079
18977	1241.169	2.7196	0.7614	0.008
13304	1242.2771	6.0399	0.7593	0.008
4771	1246.4024	5.2535	0.7614	0.008
15426	1247.2163	6.0686	0.759	0.0081
8612	1249.6297	5.5815	0.7592	0.0081
7579	1250.5929	5.2175	0.7569	0.0081
13785	1253.0701	4.7492	0.7571	0.0081
14547	1253.6064	5.8415	0.7545	0.0081
12482	1256.0369	5.8148	0.755	0.0082
8768	1258.325	5.8734	0.7546	0.0082
7291	1259.2882	2.9019	0.7527	0.0082
19874	1259.7183	3.2391	0.7498	0.0082
3462	1260.7652	5.6902	0.748	0.0083
15481	1261.6782	5.8911	0.746	0.0083
7481	1261.9667	6.3021	0.7433	0.0083
15107	1262.2568	4.2546	0.7404	0.0083
11124	1263.3886	5.5494	0.7389	0.0083
8396	1263.9294	3.6084	0.7366	0.0083
2923	1266.7504	5.0443	0.737	0.0084
20224	1267.42	5.9859	0.7349	0.0084
14779	1271.3404	5.4613	0.7372	0.0084

6588	1273.9587	5.7502	0.7377	0.0085
17129	1277.3527	5.944	0.7401	0.0085
6947	1279.3472	4.6211	0.7396	0.0086
13198	1281.2418	5.6777	0.7397	0.0086
11110	1281.3996	6.0374	0.7368	0.0086
11226	1282.0622	5.0858	0.7349	0.0086
9736	1282.4558	5.3125	0.7323	0.0086
617	1286.0104	5.3083	0.7351	0.0087
702	1286.1959	5.8328	0.7323	0.0087
15559	1286.9557	5.6605	0.7308	0.0087
2345	1289.1255	4.6146	0.7311	0.0088
5304	1292.0849	6.084	0.7329	0.0088
13945	1293.9373	4.534	0.7326	0.0088
4089	1294.5285	5.0627	0.7306	0.0089
3594	1295.3802	5.2972	0.7292	0.0089
12873	1297.2483	5.5241	0.7292	0.0089
14255	1300.7776	4.1947	0.7317	0.009
18644	1306.0097	5.3574	0.7366	0.0091
2398	1308.4269	5.8826	0.737	0.0091
7404	1308.5658	5.855	0.7346	0.0091
3020	1310.7393	2.8114	0.7349	0.0092
10726	1312.3523	5.0877	0.7342	0.0092
5029	1312.4129	5.9659	0.7314	0.0092
7509	1314.3799	5.6873	0.7314	0.0092
2137	1314.5323	5.6627	0.7288	0.0092
12149	1315.6778	4.991	0.7277	0.0092
18713	1320.981	5.346	0.7325	0.0093
3248	1325.3031	4.2538	0.736	0.0094
15185	1326.2264	4.4203	0.7346	0.0094
15366	1327.2549	5.2017	0.7333	0.0095
19791	1328.213	5.2816	0.732	0.0095
5938	1329.3128	5.5936	0.7305	0.0095
13727	1334.488	5.4996	0.7351	0.0096
7313	1335.2571	4.1917	0.7335	0.0096

16612	1335.7711	4.6475	0.7314	0.0096
14207	1336.203	4.9028	0.729	0.0096
17941	1338.9528	5.1958	0.7294	0.0097
6798	1343.5811	4.2527	0.7337	0.0098
8314	1344.3889	4.3186	0.7318	0.0098
11476	1344.4135	5.4673	0.7292	0.0098
19730	1347.8406	2.002	0.7312	0.0098
14033	1350.2667	4.2085	0.7326	0.0099
7612	1352.7677	5.486	0.7338	0.0099
15444	1356.2696	5.4548	0.7365	0.01
148	1356.5096	5.6919	0.7344	0.01
4442	1356.742	4.6785	0.7321	0.01
17378	1357.4126	4.9811	0.7304	0.01
15023	1357.5255	5.5451	0.728	0.01
8344	1367.0513	3.7845	0.7396	0.0102
11003	1367.9967	3.8746	0.7381	0.0102
1654	1368.3752	4.5301	0.7361	0.0103
12910	1369.5259	4.5356	0.7351	0.0103
18822	1377.5328	5.2439	0.743	0.0104
15544	1378.0068	5.5199	0.741	0.0104
4986	1381.1471	5.2971	0.7434	0.0105
18522	1381.6001	5.5488	0.7417	0.0105
10520	1384.0474	4.5593	0.7427	0.0106
7356	1384.4973	4.8603	0.7408	0.0106
15429	1386.0953	4.953	0.7399	0.0106
18786	1389.2993	5.3996	0.7421	0.0107
6681	1390.1909	5.5015	0.7406	0.0107
11347	1390.6283	5.1682	0.7386	0.0107
18212	1391.5061	5.692	0.737	0.0107
11101	1391.8941	3.7229	0.7349	0.0107
17187	1392.8644	5.124	0.7337	0.0107
13900	1397.1601	4.2986	0.7364	0.0108
15206	1397.4342	4.6164	0.7343	0.0108
14148	1398.6622	5.1688	0.7333	0.0108

7925	1400.7561	1.7581	0.734	0.0109
18514	1403.6539	5.6855	0.7351	0.0109
15293	1403.7788	5.1613	0.7327	0.0109
19331	1404.1257	4.9724	0.7308	0.0109
17442	1404.8307	4.9157	0.7293	0.0109
15422	1405.9309	5.3718	0.7283	0.011
8280	1406.3911	5.4845	0.7265	0.011
7338	1414.0332	5.2133	0.7345	0.0111
9406	1414.2118	5.3398	0.7324	0.0111
14544	1414.4693	5.2885	0.7304	0.0111
15602	1418.5336	4.9774	0.7335	0.0112
4483	1425.4427	5.4911	0.7392	0.0113
4350	1429.0875	2.3453	0.7411	0.0114
4622	1429.1851	4.4967	0.7389	0.0114
11339	1430.6097	4.8305	0.7384	0.0114
20353	1431.4253	4.4805	0.7372	0.0115
15200	1432.9811	5.5315	0.7378	0.0115
3577	1434.4429	5.102	0.7375	0.0115
235	1436.3443	5.5576	0.7374	0.0116
13439	1437.1476	5.0182	0.7361	0.0116
17738	1438.8172	4.7416	0.7361	0.0116
8881	1442.0002	5.3091	0.7373	0.0117
14290	1442.5508	4.381	0.7358	0.0117
16619	1443.6697	4.872	0.7348	0.0117
297	1446.3401	4.4921	0.7359	0.0118
15328	1448.2448	4.2772	0.7359	0.0118
18771	1450.0574	4.4878	0.7359	0.0118
16609	1451.1972	4.3414	0.735	0.0119
3667	1452.707	5.2496	0.7344	0.0119
4113	1454.7544	4.6226	0.7343	0.0119
1284	1454.9917	4.2524	0.7322	0.0119
15695	1455.833	3.7312	0.731	0.0119
7157	1455.9649	4.5854	0.7291	0.0119
19955	1457.4951	4.2163	0.729	0.012

7694	1459.6039	4.3275	0.7293	0.012
20216	1463.6625	5.0396	0.7321	0.0121
2132	1465.6679	4.5827	0.7321	0.0121
15525	1469.839	4.6988	0.7351	0.0122
9749	1472.363	5.2368	0.7365	0.0123
11363	1477.5105	3.9247	0.7406	0.0124
5841	1481.2713	4.5361	0.7428	0.0125
15060	1482.7058	5.0863	0.7423	0.0125
1404	1483.1087	4.9902	0.7405	0.0125
3421	1483.3503	4.444	0.7387	0.0125
12668	1487.3165	3.2884	0.7408	0.0126
9157	1489.8925	5.1132	0.7422	0.0126
9781	1494.538	5.3308	0.7471	0.0127
3791	1498.9683	4.2342	0.7507	0.0128
17601	1502.794	4.5836	0.7533	0.0129
2462	1506.7567	4.9945	0.7564	0.013
15507	1509.2384	5.0737	0.7578	0.0131
17814	1509.6366	4.3433	0.7561	0.0131
14445	1512.0989	4.9008	0.757	0.0131
12278	1516.1447	3.204	0.7597	0.0132
11310	1516.2681	4.9956	0.7578	0.0132
3021	1519.566	4.9989	0.7595	0.0133
19879	1520.8757	4.9472	0.759	0.0133
5447	1528.5779	3.8416	0.7664	0.0135
10145	1529.6857	4.9367	0.7653	0.0135
19813	1533.3698	5.0281	0.7673	0.0136
14316	1536.5744	4.4697	0.7693	0.0136
11283	1539.5003	4.8687	0.7709	0.0137
18458	1542.4573	4.6965	0.7722	0.0138
18556	1547.2846	4.9358	0.776	0.0139
15785	1547.6575	3.351	0.7743	0.0139
15034	1547.9147	5.1974	0.7725	0.0139
16814	1548.349	4.1985	0.7709	0.0139
16393	1549.0904	3.091	0.7696	0.0139

15933	1554.1601	5.1383	0.7741	0.014
17229	1555.4325	2.6182	0.7737	0.0141
18361	1556.4582	3.2953	0.7729	0.0141
4208	1557.8818	4.2577	0.7731	0.0141
12504	1560.6862	4.2198	0.775	0.0142
17743	1561.4066	4.7592	0.7738	0.0142
10900	1563.559	4.8645	0.774	0.0143
12990	1564.4741	3.3977	0.7732	0.0143
1965	1565.1739	3.2059	0.772	0.0143
15864	1565.2145	3.9866	0.77	0.0143
15066	1565.7768	4.9765	0.7686	0.0143
6270	1570.2321	2.9521	0.772	0.0144
12304	1570.9258	5.2058	0.7709	0.0144
13640	1572.5584	4.7578	0.7708	0.0145
8479	1572.7884	4.0687	0.7691	0.0145
14082	1572.9167	4.1026	0.7673	0.0145
1264	1573.042	3.4204	0.7655	0.0145
15542	1574.8614	4.3853	0.7662	0.0145
6537	1576.078	5.0849	0.7657	0.0146
12101	1577.695	4.7569	0.7657	0.0146
15205	1579.6945	5.0353	0.7656	0.0146
14970	1581.8596	4.5913	0.7662	0.0147
5349	1582.3503	1.0402	0.765	0.0147
13775	1582.676	3.1797	0.7634	0.0147
15313	1587.2811	4.9292	0.7669	0.0148
16369	1588.2925	5.0244	0.7662	0.0148
14876	1588.4545	4.503	0.7645	0.0148
11184	1588.9866	4.671	0.7631	0.0148
8107	1593.0606	4.4301	0.7663	0.0149
18235	1593.413	4.3242	0.7647	0.0149
14371	1593.6901	4.3399	0.763	0.015
10848	1593.8258	4.5829	0.7612	0.015
9361	1599.4193	4.7706	0.766	0.0151
19098	1602.9699	3.9439	0.7677	0.0152

15260	1603.9175	4.7006	0.7668	0.0152
4941	1610.001	4.9306	0.7725	0.0153
18642	1610.3516	4.2451	0.771	0.0153
18705	1611.2346	3.8809	0.7703	0.0154
8696	1615.4939	4.6055	0.7734	0.0155
10327	1616.8444	4.2813	0.773	0.0155
15431	1618.0405	3.6513	0.7726	0.0155
20387	1618.056	3.2418	0.7708	0.0155
8697	1619.5213	4.721	0.7702	0.0155
3586	1620.2071	4.3053	0.7691	0.0156
18789	1620.8386	4.5258	0.7679	0.0156
1762	1621.8811	4.7382	0.7673	0.0156
20059	1623.2778	4.2736	0.7669	0.0156
7885	1624.1809	4.8333	0.7664	0.0157
10971	1626.1533	4.9843	0.767	0.0157
15841	1627.1699	4.7447	0.7664	0.0157
11702	1629.1013	4.907	0.7668	0.0158
18278	1629.4949	3.9292	0.7656	0.0158
3414	1630.7351	4.0881	0.7652	0.0158
2084	1635.9178	2.7259	0.7691	0.0159
12826	1636.3141	3.5752	0.7677	0.0159
15988	1639.8394	4.5926	0.7699	0.016
14260	1639.9426	4.8429	0.7682	0.016
16570	1640.5328	4.308	0.7671	0.016
4683	1647.3126	4.5857	0.7727	0.0162
14890	1651.5912	4.2596	0.7756	0.0163
9241	1658.3293	3.5061	0.7815	0.0165
17259	1660.389	2.951	0.7821	0.0165
20168	1665.6881	4.49	0.7861	0.0166
16746	1666.4663	3.9355	0.7853	0.0167
16648	1666.8895	4.061	0.784	0.0167
18969	1671.116	4.5553	0.7871	0.0168
17949	1673.3068	4.4369	0.7878	0.0168
6990	1677.5597	4.6968	0.7911	0.0169

13620	1681.076	3.8613	0.793	0.017
17752	1684.0006	4.5608	0.795	0.0171
1879	1684.0203	4.6223	0.7932	0.0171
4876	1684.7644	4.6254	0.7922	0.0171
3320	1685.9266	1.8342	0.7918	0.0171
5122	1686.7949	4.716	0.7911	0.0172
9060	1687.1982	3.3202	0.7897	0.0172
770	1694.1004	4.3122	0.7958	0.0173
18059	1696.3868	4.018	0.7965	0.0174
17556	1698.3432	4.2381	0.7972	0.0175
3644	1698.7579	2.8178	0.7959	0.0175
16795	1699.9393	3.5196	0.7958	0.0175
6313	1703.2923	4.6184	0.7979	0.0176
17091	1704.4484	4.5865	0.7974	0.0176
13533	1705.1722	4.5382	0.7963	0.0176
9830	1706.7737	2.9913	0.7966	0.0177
10043	1706.7915	3.9142	0.7949	0.0177
11526	1707.6504	4.8075	0.794	0.0177
6633	1708.7257	1.0742	0.7936	0.0177
15342	1709.3887	4.0215	0.7926	0.0177
1664	1710.4746	4.1212	0.7919	0.0178
2292	1710.5513	3.5845	0.7903	0.0178
9494	1711.6724	3.8659	0.7899	0.0178
19660	1713.6996	4.6904	0.7906	0.0179
3618	1714.3414	0.8337	0.7897	0.0179
11371	1715.2975	4.131	0.789	0.0179
15437	1720.4264	3.288	0.7938	0.018
13973	1720.6322	3.7493	0.7924	0.018
7029	1723.2309	4.3831	0.7937	0.0181
18273	1725.8241	4.7623	0.7947	0.0182
15614	1731.1465	4.6727	0.7997	0.0183
10028	1732.6868	3.7978	0.7992	0.0184
14409	1733.4322	2.9074	0.7983	0.0184
17885	1736.3741	4.4286	0.8001	0.0185

2859	1737.5598	4.6021	0.7998	0.0185
700	1740.8445	4.3195	0.8012	0.0186
17042	1741.1026	4.4623	0.7997	0.0186
15826	1741.335	4.2682	0.7984	0.0186
10734	1742.4347	3.4195	0.798	0.0186
8523	1743.0685	4.2842	0.7969	0.0186
9593	1743.7895	3.9254	0.7961	0.0186
18363	1745.7536	3.6946	0.7965	0.0187
19789	1746.3458	4.4563	0.7956	0.0187
7707	1746.7381	4.3746	0.7943	0.0187
17024	1748.8388	3.7957	0.7949	0.0188
14225	1749.8669	4.4287	0.7943	0.0188
11344	1750.2718	4.743	0.7931	0.0188
18794	1750.8757	4.3968	0.7921	0.0188
14804	1754.4903	4.2917	0.7943	0.0189
7383	1757.1056	3.949	0.7957	0.019
1488	1758.0756	3.5852	0.7956	0.019
14801	1758.168	4	0.794	0.019
4558	1759.7763	4.1819	0.794	0.0191
18092	1760.7232	4.4516	0.7935	0.0191
18507	1761.7714	3.7671	0.793	0.0191
4289	1763.3749	4.4743	0.7927	0.0191
13667	1764.6821	4.2807	0.7926	0.0192
1065	1764.943	3.71	0.7913	0.0192
15433	1765.2041	4.6376	0.7899	0.0192
8638	1765.5292	3.3647	0.7888	0.0192
15346	1766.2467	3.5618	0.788	0.0192
17379	1767.0028	2.9511	0.7872	0.0192
2664	1767.0315	4.0794	0.7856	0.0192
2093	1768.1673	4.4218	0.7853	0.0193
10946	1769.5488	4.1905	0.7852	0.0193
15532	1771.8609	4.4175	0.7861	0.0194
825	1774.7532	3.2032	0.7879	0.0194
17933	1775.2532	4.2596	0.7868	0.0195

4485	1776.1611	4.4239	0.786	0.0195
10889	1776.6923	4.5094	0.7851	0.0195
17867	1777.3471	4.3255	0.7843	0.0195
14332	1777.5307	4.5911	0.7829	0.0195
14592	1777.6266	4.4648	0.7815	0.0195
18153	1779.6775	4.1732	0.7823	0.0196
20405	1779.9173	4.1755	0.7811	0.0196
10882	1779.9831	3.7521	0.7797	0.0196
6851	1781.9157	4.6107	0.7805	0.0196
7729	1782.2511	4.3305	0.7794	0.0197
3821	1782.3696	3.0101	0.778	0.0197
17948	1782.6612	4.598	0.7768	0.0197
3797	1783.0689	3.8994	0.7759	0.0197
3390	1783.4818	3.7199	0.7749	0.0197
19472	1784.3717	4.358	0.7744	0.0197
13551	1785.3979	4.7063	0.774	0.0197
1446	1787.8714	3.9212	0.775	0.0198
1619	1788.2086	4.3946	0.7739	0.0198
15238	1788.4428	3.369	0.7726	0.0198
6924	1790.2788	2.4175	0.7726	0.0199
4583	1790.3787	4.1525	0.7712	0.0199
6816	1790.7987	4.5947	0.7705	0.0199
10179	1795.742	3.5926	0.7747	0.02
8495	1795.9118	4.4897	0.7734	0.02
2615	1797.2645	4.5476	0.7735	0.0201
4968	1797.3641	4.3897	0.7721	0.0201
19137	1798.3959	4.5008	0.772	0.0201
7302	1799.5352	4.3368	0.7718	0.0201
4599	1802.7784	4.3157	0.7739	0.0202
13790	1803.7685	4.3098	0.7735	0.0203
5402	1805.9582	4.4417	0.7742	0.0203
15032	1807.805	3.226	0.7749	0.0204
18146	1810.0286	4.1077	0.7759	0.0204
8763	1810.1295	3.8805	0.7746	0.0204

7685	1812.6632	4.2639	0.7756	0.0205
9288	1813.1259	3.8959	0.7746	0.0205
17355	1813.4901	4.3515	0.7735	0.0205
17563	1815.1115	4.6019	0.7738	0.0206
14984	1815.2401	4.3082	0.7726	0.0206
9347	1815.5882	4.3009	0.7715	0.0206
19323	1816.4005	4.402	0.7709	0.0206
7435	1817.3701	4.3034	0.7705	0.0206
11989	1822.6813	3.9049	0.7743	0.0208
13430	1823.566	3.5197	0.7738	0.0208
7706	1825.9642	3.9956	0.7748	0.0209
15113	1826.5304	4.5274	0.774	0.0209
7386	1826.9571	3.9569	0.7732	0.0209
15527	1827.2588	2.9763	0.7722	0.0209
17302	1827.632	4.0713	0.7712	0.0209
11296	1830.8642	3.9512	0.7727	0.021
17154	1832.8357	2.908	0.7734	0.0211
12367	1833.2583	2.73	0.7725	0.0211
5421	1834.602	3.7051	0.7725	0.0211
19423	1840.3338	4.2144	0.7775	0.0213
18840	1841.0856	3.1794	0.7768	0.0213
14864	1844.3079	4.1627	0.7789	0.0214
6074	1845.5596	3.8852	0.779	0.0214
14534	1845.6797	3.7617	0.7777	0.0214
12524	1848.6621	3.6174	0.7793	0.0215
14559	1849.3509	1.9978	0.7786	0.0215
124	1849.9317	3.9098	0.7778	0.0216
14520	1854.4529	3.6539	0.781	0.0217
18499	1855.0689	4.21	0.7805	0.0217
14810	1857.3192	4.3583	0.7814	0.0218
8907	1857.6739	4.1415	0.7804	0.0218
1380	1857.803	4.0557	0.7791	0.0218
15403	1859.6272	4.1263	0.7798	0.0218
8810	1860.5922	4.4074	0.7793	0.0219

14321	1862.2513	3.3847	0.7796	0.0219
7269	1863.9257	3.924	0.7801	0.022
7239	1864.0814	3.2808	0.7789	0.022
14614	1865.2332	4.0593	0.7786	0.022
385	1865.3665	4.352	0.7773	0.022
8830	1866.2829	3.3953	0.7769	0.022
14994	1866.7165	4.161	0.7759	0.022
12242	1867.4652	3.7732	0.7755	0.0221
14073	1867.6802	3.0638	0.7743	0.0221
13688	1868.1597	4.4068	0.7734	0.0221
7742	1870.3112	4.1462	0.774	0.0221
18081	1872.853	4.0607	0.7753	0.0222
4892	1873.4386	3.913	0.7747	0.0222
15432	1873.9618	4.2966	0.7739	0.0222
11337	1875.7156	3.9392	0.7745	0.0223
6734	1876.0832	4.0114	0.7735	0.0223
13791	1876.6918	4.3779	0.7728	0.0223
11202	1877.1237	3.8843	0.7717	0.0223
2663	1877.8436	4.3642	0.7712	0.0224
17059	1878.5264	4.0924	0.7704	0.0224
7470	1880.312	3.8402	0.7712	0.0224
14899	1880.9212	2.8495	0.7708	0.0225
13623	1881.613	3.4435	0.7704	0.0225
11201	1883.7858	3.7442	0.7712	0.0225
15512	1883.9236	3.9166	0.77	0.0225
15427	1884.3628	4.3288	0.7691	0.0226
16672	1886.9848	3.4597	0.7703	0.0226
9021	1891.5075	4.3623	0.7732	0.0227
19792	1892.8859	2.4245	0.7732	0.0228
6921	1895.4224	2.613	0.7744	0.0229
13555	1896.3284	4.1296	0.7741	0.0229
13558	1897.6159	4.3594	0.7741	0.0229
14760	1898.4377	4.0193	0.7737	0.023
6983	1899.2625	2.8563	0.7732	0.023

19369	1903.0891	3.91	0.7759	0.0231
12694	1905.1915	4.1774	0.777	0.0232
19150	1905.5094	3.5605	0.776	0.0232
10811	1907.1655	4.203	0.7764	0.0232
4505	1909.1902	3.2486	0.7769	0.0233
19396	1909.5625	3.5329	0.776	0.0233
11522	1910.376	3.5587	0.7755	0.0233
10879	1911.3201	3.0943	0.7752	0.0233
17822	1912.3687	4.1895	0.7749	0.0234
1610	1913.9514	3.8287	0.775	0.0234
19677	1914.123	4.0337	0.774	0.0234
11440	1915.0457	3.5716	0.7737	0.0234
20343	1916.7067	3.6976	0.7742	0.0235
9968	1916.7703	4.1828	0.773	0.0235
14631	1921.0331	3.3065	0.7759	0.0236
1459	1922.6724	3.6343	0.7765	0.0237
4520	1926.2636	3.6541	0.7787	0.0238
5910	1928.6859	4.0934	0.7803	0.0239
13939	1930.7915	3.0559	0.7812	0.0239
12780	1935.8811	3.3563	0.7846	0.0241
7970	1935.932	3.8521	0.7835	0.0241
3210	1936.2947	4.0882	0.7826	0.0241
5368	1936.4367	3.7776	0.7814	0.0241
4780	1939.0782	4.3065	0.7828	0.0242
20108	1939.1916	3.666	0.7817	0.0242
9598	1939.2507	3.6174	0.7805	0.0242
8512	1941.3526	4.3271	0.7814	0.0243
16616	1942.1671	3.7944	0.7809	0.0243
1151	1943.258	4.3498	0.7807	0.0243
19462	1945.7387	4.3556	0.7822	0.0244
7736	1945.9844	3.8348	0.7813	0.0244
3688	1949.3282	3.6753	0.7834	0.0245
19387	1949.8011	4.1132	0.7826	0.0245
17888	1951.6116	3.4175	0.7832	0.0246

15965	1953.2083	3.574	0.7834	0.0246
20455	1955.3386	4.2054	0.7841	0.0247
12634	1955.5767	3.9051	0.7832	0.0247
4114	1955.677	3.5473	0.7821	0.0247
12444	1956.091	3.8664	0.7814	0.0247
12180	1956.6996	3.6422	0.7807	0.0247
17802	1956.8235	2.2443	0.7797	0.0247
13258	1957.4877	3.68	0.7792	0.0248
1887	1960.3916	4.2813	0.7802	0.0248
18168	1962.911	2.2826	0.7813	0.0249
13820	1963.0596	3.5101	0.7803	0.0249
17825	1964.4729	3.6734	0.7806	0.025
15692	1964.554	4.0461	0.7794	0.025
16600	1965.8458	2.3964	0.7793	0.025
19904	1968.485	3.7014	0.7806	0.0251
2204	1969.481	1.5087	0.7803	0.0251
14963	1970.3918	3.5267	0.78	0.0251
20428	1971.4955	4.1886	0.78	0.0252
16596	1973.0209	4.0125	0.7801	0.0252
7328	1973.0851	3.4822	0.779	0.0252
8487	1973.5418	3.8002	0.7785	0.0252
18314	1974.002	3.9911	0.7777	0.0252
17332	1974.2473	3.587	0.7767	0.0252
2424	1974.6613	2.7223	0.776	0.0253
14977	1976.3318	3.0169	0.7765	0.0253
19201	1977.0941	2.9605	0.776	0.0253
7159	1981.6599	4.0643	0.7791	0.0255
3206	1982.6767	3.7078	0.7788	0.0255
1827	1984.9052	3.9863	0.78	0.0256
6234	1990.4474	3.5428	0.7844	0.0258
14934	1991.7534	4.0649	0.7842	0.0258
7163	1992.5539	3.6395	0.7839	0.0258
15561	1993.7792	3.554	0.7841	0.0259
15161	1994.2892	3.6608	0.7834	0.0259

1675	1994.6816	2.6365	0.7826	0.0259
7044	1998.1974	3.4715	0.7846	0.026
15496	1999.1375	3.7937	0.7843	0.026
11463	2001.0083	3.5394	0.7849	0.0261
19962	2003.0357	4.1375	0.7856	0.0261
11026	2003.4198	4.2423	0.7849	0.0262
2331	2003.9693	3.3623	0.7843	0.0262
17858	2005.4489	4.0245	0.7843	0.0262
9122	2005.6518	3.4243	0.7833	0.0262
15322	2008.6525	3.4348	0.7852	0.0263
13489	2009.2724	2.887	0.7845	0.0263
8172	2010.3201	3.4194	0.7843	0.0264
19895	2010.9765	4.1319	0.7839	0.0264
13113	2011.6199	4.0696	0.7832	0.0264
699	2013.4072	3.9482	0.7839	0.0265
16907	2013.8067	3.8975	0.7832	0.0265
16174	2014.3897	3.6636	0.7826	0.0265
20179	2015.9739	4.0702	0.7831	0.0266
7439	2016.2658	3.1304	0.7822	0.0266
20274	2017.0171	3.5633	0.7817	0.0266
14545	2017.2085	4.0171	0.7808	0.0266
3503	2019.0397	2.0115	0.7814	0.0267
19183	2020.0541	3.816	0.7812	0.0267
15373	2020.2365	3.5165	0.7802	0.0267
3002	2021.0438	4.0138	0.7798	0.0267
4907	2021.151	1.5871	0.7788	0.0267
19457	2022.2457	3.603	0.7787	0.0268
14613	2024.0096	4.1442	0.7792	0.0268
5412	2024.8634	4.0449	0.7788	0.0268
4092	2026.7407	3.9157	0.7794	0.0269
15368	2030.729	3.6891	0.7817	0.027
346	2031.2903	3.6453	0.7812	0.027
15347	2031.4257	4.0945	0.7802	0.027
5434	2031.8831	2.3816	0.7796	0.0271

4911	2032.258	2.585	0.7788	0.0271
5062	2033.0795	2.7278	0.7784	0.0271
4609	2035.0858	3.898	0.779	0.0271
15383	2037.2141	4.0268	0.7797	0.0272
14376	2037.2515	3.5835	0.7787	0.0272
16841	2037.3543	3.4853	0.7777	0.0272
11928	2037.956	3.6935	0.7773	0.0272
19803	2039.2362	3.9978	0.7775	0.0273
18843	2039.6703	3.6218	0.7767	0.0273
7673	2039.8465	3.6519	0.7757	0.0273
19345	2040.3048	3.6684	0.7752	0.0273
18861	2042.6756	3.3483	0.7764	0.0274
8802	2043.0436	3.5468	0.7758	0.0274
20165	2045.0502	2.9432	0.7766	0.0275
3027	2045.2874	3.2931	0.7757	0.0275
17159	2045.7476	2.4769	0.7751	0.0275
15288	2051.7791	3.5259	0.7797	0.0277
3330	2052.0219	3.8904	0.7788	0.0277
14557	2052.69	3.9059	0.7783	0.0277
1917	2053.524	2.315	0.778	0.0278
19215	2056.9881	2.4808	0.7802	0.0279
12754	2056.9985	2.86	0.7792	0.0279
8533	2058.2532	2.8118	0.7793	0.0279
16085	2058.5601	4.0472	0.7784	0.0279
9012	2058.7413	2.4076	0.7776	0.0279
12706	2058.7553	3.456	0.7766	0.0279
4980	2059.2389	3.495	0.7759	0.0279
13513	2061.405	2.4755	0.7767	0.028
20305	2061.6654	3.891	0.7758	0.028
14690	2065.1519	3.1208	0.7778	0.0281
18447	2065.4754	3.0883	0.777	0.0281
14318	2066.0826	3.5537	0.7765	0.0282
16103	2066.3302	1.8689	0.7757	0.0282
17382	2067.0849	3.7778	0.7754	0.0282

15227	2068.0286	3.2615	0.7753	0.0282
7679	2069.3239	3.6567	0.7755	0.0283
15268	2069.8774	4.015	0.7749	0.0283
14470	2069.8884	3.8443	0.7739	0.0283
18677	2074.1217	3.8236	0.7763	0.0284
8164	2076.4758	3.9522	0.7775	0.0285
17597	2076.6157	3.5163	0.7766	0.0285
9145	2077.3748	3.6819	0.7763	0.0285
15589	2083.7803	2.8506	0.7809	0.0287
4841	2084.0063	2.6809	0.7801	0.0287
19809	2085.9512	3.6925	0.7808	0.0288
10853	2088.8136	3.5461	0.7824	0.0289
15772	2088.8533	3.9928	0.7814	0.0289
19356	2090.7829	3.8886	0.7823	0.029
13442	2092.9547	3.8317	0.7833	0.0291
16827	2094.912	3.4771	0.7841	0.0291
18634	2095.8231	3.9736	0.7838	0.0292
4662	2096.3108	1.7948	0.7834	0.0292
5622	2096.3195	3.2684	0.7824	0.0292
15468	2098.2167	3.9804	0.783	0.0292
313	2098.806	1.9077	0.7824	0.0293
18600	2098.9101	3.4462	0.7815	0.0293
15055	2099.2044	3.8643	0.7808	0.0293
13917	2100.294	3.7133	0.7807	0.0293
14506	2100.8838	3.8069	0.7801	0.0293
18187	2101.1611	3.821	0.7793	0.0293
18692	2105.0555	3.3109	0.7819	0.0295
6567	2106.604	3.3061	0.7823	0.0295
18491	2110.9646	2.1922	0.7853	0.0297
18040	2112.1745	3.8584	0.7856	0.0297
9210	2113.138	3.9284	0.7854	0.0297
14605	2115.3267	3.4113	0.7862	0.0298
19281	2117.6015	3.7752	0.7872	0.0299
18130	2117.9167	2.478	0.7866	0.0299

5786	2118.5093	3.5943	0.7861	0.0299
9681	2118.8851	1.428	0.7855	0.0299
15962	2119.1029	3.6098	0.7847	0.03
14319	2119.3258	3.9154	0.7839	0.03
18814	2120.7326	3.817	0.7842	0.03
10104	2123.58	2.5259	0.7855	0.0301
11133	2124.4287	3.901	0.7853	0.0301
18033	2124.6178	4.0721	0.7846	0.0301
12105	2125.1931	3.7261	0.784	0.0302
9842	2125.9861	3.7974	0.7839	0.0302
4842	2126.1704	0.934	0.783	0.0302
15934	2129.1869	3.0524	0.7847	0.0303
15599	2129.7833	2.9903	0.7843	0.0303
16653	2132.0632	1.9384	0.7855	0.0304
14244	2132.2983	1.7991	0.7847	0.0304
7688	2133.6961	2.3582	0.7849	0.0305
8332	2134.1348	1.5893	0.7844	0.0305
18501	2135.138	3.194	0.7841	0.0305
4924	2135.5957	3.9584	0.7836	0.0305
9140	2136.4253	4.1114	0.7835	0.0306
20004	2136.9969	3.5312	0.783	0.0306
16268	2138.6267	3.4925	0.7835	0.0306
15300	2138.977	3.6059	0.7829	0.0306
19461	2140.0291	3.9078	0.783	0.0307
2438	2142.7311	2.6907	0.7842	0.0308
11970	2144.5092	2.7535	0.7849	0.0308
5414	2144.5417	3.9598	0.7839	0.0308
14440	2151.9653	2.6331	0.7892	0.0311
9758	2152.3358	3.0948	0.7886	0.0311
8146	2153.6351	3.8842	0.7887	0.0311
20425	2153.689	3.369	0.7877	0.0311
18224	2154.6574	3.5426	0.788	0.0312
11634	2154.7116	3.8562	0.787	0.0312
17778	2155.1895	3.5467	0.7864	0.0312

10968	2156.7097	3.8927	0.7869	0.0313
8478	2158.7485	3.5528	0.7877	0.0313
14626	2164.7619	3.7218	0.7921	0.0316
3389	2166.0628	3.5839	0.7923	0.0316
5543	2167.6587	3.6423	0.7927	0.0317
4242	2167.9652	3.2234	0.7919	0.0317
2408	2168.7373	2.4638	0.7916	0.0317
19260	2168.9349	3.4921	0.7909	0.0317
9971	2169.9902	3.7586	0.791	0.0317
16853	2171.6037	3.8402	0.7914	0.0318
10010	2172.0857	3.9041	0.7909	0.0318
4261	2175.5826	4.0123	0.7931	0.0319
7341	2176.3043	3.5324	0.7927	0.032
4339	2179.1787	3.7976	0.7943	0.0321
14535	2179.7928	2.3555	0.794	0.0321
5888	2181.2838	3.3143	0.7941	0.0321
19299	2185.0747	3.767	0.7963	0.0323
886	2185.3616	3.9537	0.7956	0.0323
17291	2185.9999	2.4666	0.7952	0.0323
5640	2187.6501	3.8285	0.7956	0.0324
19845	2190.9956	3.7273	0.7975	0.0325
2714	2193.1338	3.6869	0.7985	0.0325
9538	2193.655	3.017	0.7979	0.0326
15813	2195.3605	1.9366	0.7984	0.0326
8774	2198.1062	3.4021	0.7998	0.0327
7436	2199.2745	2.3549	0.7998	0.0328
343	2200.3011	3.1105	0.7998	0.0328
2499	2200.3022	2.5607	0.7988	0.0328
6146	2200.5542	3.6585	0.798	0.0328
4167	2201.2888	3.399	0.7979	0.0328
13639	2202.0966	3.1774	0.7976	0.0329
15320	2203.3995	3.7875	0.7979	0.0329
15590	2204.5106	3.7545	0.798	0.033
14058	2205.366	2.4322	0.7979	0.033

6104	2205.8284	3.7936	0.7973	0.033
8889	2206.4061	2.3302	0.7969	0.033
1314	2211.3004	3.7848	0.8004	0.0332
11805	2211.3395	2.556	0.7995	0.0332
19394	2211.5692	3.2289	0.7988	0.0332
14684	2213.3631	2.6197	0.7993	0.0333
2249	2216.3716	3.112	0.8009	0.0334
15037	2216.445	2.9528	0.8	0.0334
3812	2218.1485	3.7697	0.8005	0.0335
10852	2218.7254	3.6903	0.8002	0.0335
8548	2220.0837	2.0642	0.8004	0.0335
5657	2223.4623	3.1781	0.802	0.0336
19019	2223.8091	3.7163	0.8013	0.0336
3552	2224.6487	3.4833	0.801	0.0337
7844	2226.1986	2.8261	0.8014	0.0337
1745	2228.9343	3.7153	0.8027	0.0338
5146	2229.1508	2.6939	0.8019	0.0338
17213	2230.3865	3.0859	0.8022	0.0339
18239	2232.4285	3.8394	0.8031	0.034
15485	2232.7365	3.6084	0.8024	0.034
19406	2233.0478	3.6775	0.8018	0.034
11456	2234.2491	3.5609	0.8021	0.034
15814	2234.7862	2.9502	0.8016	0.034
13232	2235.7248	3.6926	0.8015	0.0341
4363	2237.865	3.5122	0.8024	0.0342
14386	2239.1387	2.6347	0.8027	0.0342
20336	2239.6315	3.4552	0.8021	0.0342
7670	2239.8044	3.607	0.8014	0.0342
11484	2240.8672	3.7589	0.8013	0.0343
4765	2242.9298	2.3819	0.802	0.0343
9504	2243.4493	3.6946	0.8015	0.0344
16856	2243.896	2.6308	0.8009	0.0344
16243	2244.5144	3.0292	0.8005	0.0344
13819	2247.8758	3.346	0.8024	0.0345

17595	2248.5413	2.7918	0.8022	0.0345
5091	2248.8579	3.1157	0.8015	0.0346
4183	2249.8839	3.9344	0.8014	0.0346
4107	2252.5122	3.5823	0.8027	0.0347
15457	2252.7498	3.7463	0.8019	0.0347
14949	2255.7156	2.9026	0.8034	0.0348
347	2261.1015	3.127	0.8067	0.035
10607	2261.7382	3.7198	0.8064	0.035
5166	2261.7409	3.3142	0.8055	0.035
1692	2263.6835	2.6451	0.806	0.0351
2744	2264.4031	3.225	0.8057	0.0351
6719	2265.2491	3.2878	0.8056	0.0351
2798	2269.2137	2.0343	0.808	0.0353
16119	2269.514	3.7535	0.8074	0.0353
14246	2273.0465	3.7265	0.8091	0.0354
4382	2273.1527	3.5003	0.8083	0.0354
13438	2276.0855	3.1438	0.8098	0.0355
18268	2276.256	3.5959	0.8091	0.0355
4254	2276.6952	2.8522	0.8086	0.0355
12157	2277.0178	3.7271	0.8078	0.0355
465	2277.9187	3.6639	0.8077	0.0356
10017	2278.6096	1.9414	0.8073	0.0356
14472	2282.5052	2.9806	0.8096	0.0357
14572	2282.9609	3.6738	0.809	0.0357
15603	2285.1299	3.6719	0.8099	0.0358
10863	2285.2327	2.9318	0.8091	0.0358
7870	2289.684	3.5897	0.8121	0.036
11398	2290.0286	3.487	0.8115	0.036
14062	2295.5278	2.7758	0.815	0.0362
18441	2296.7703	3.4555	0.8151	0.0363
17808	2297.3628	3.3843	0.8147	0.0363
18415	2304.3055	3.5312	0.8198	0.0365
4458	2305.0456	3.2853	0.8196	0.0366
18170	2305.2868	2.9809	0.8189	0.0366

19714	2308.2138	0.4724	0.8206	0.0367
5040	2309.7853	3.205	0.821	0.0368
3308	2310.8879	2.9806	0.821	0.0368
16904	2311.0849	3.509	0.8202	0.0368
4596	2311.9969	2.674	0.82	0.0368
5346	2312.3572	3.5999	0.8193	0.0368
14196	2312.643	3.6795	0.8186	0.0368
15633	2313.1895	2.8589	0.818	0.0369
20309	2315.2427	3.275	0.8189	0.0369
4851	2315.4046	3.7676	0.8181	0.0369
15839	2315.8778	3.4017	0.8176	0.037
12396	2316.6029	2.5464	0.8173	0.037
8785	2316.9411	2.4908	0.8167	0.037
11731	2318.7917	3.4187	0.8176	0.0371
17692	2320.4646	3.5648	0.8181	0.0371
8490	2321.5001	3.4572	0.8178	0.0372
17253	2322.661	2.9946	0.818	0.0372
15230	2323.3198	3.6992	0.8177	0.0372
8157	2324.4583	1.0685	0.8178	0.0373
15436	2324.6383	2.2877	0.8171	0.0373
2337	2326.3757	3.4978	0.8177	0.0374
12916	2326.3855	2.827	0.8168	0.0374
17399	2327.468	2.7568	0.8168	0.0374
6012	2334.3734	3.5775	0.8215	0.0377
3734	2337.7655	3.2066	0.8232	0.0378
16667	2339.2648	3.4616	0.8237	0.0378
6123	2339.3138	3.7063	0.8229	0.0378
7008	2340.1898	3.7013	0.8227	0.0379
18123	2340.3397	3.3495	0.822	0.0379
1447	2341.1932	3.2017	0.8218	0.0379
15099	2341.6123	3.4197	0.8213	0.0379
3795	2342.1127	3.6033	0.8209	0.038
7505	2342.6272	3.4152	0.8203	0.038
8833	2344.1382	3.0733	0.8205	0.038

17901	2344.3493	2.9106	0.8199	0.038
12974	2346.076	3.0847	0.8204	0.0381
357	2348.0205	3.5303	0.8212	0.0382
9656	2350.7654	3.5518	0.8225	0.0383
17529	2351.7889	3.3708	0.8224	0.0383
17193	2353.7788	3.6478	0.8234	0.0384
16003	2354.2862	3.3371	0.823	0.0384
7258	2356.8295	3.5306	0.8245	0.0385
11264	2356.9045	3.633	0.8237	0.0385
18095	2358.7775	3.3545	0.8244	0.0386
4706	2360.8103	3.1644	0.8253	0.0387
7266	2361.0123	3.3502	0.8246	0.0387
13030	2362.9957	3.5788	0.8254	0.0388
9970	2363.5364	3.3932	0.825	0.0388
18021	2363.9081	3.448	0.8244	0.0388
8362	2367.7132	3.5318	0.8267	0.039
1914	2368.4696	3.4487	0.8267	0.039
16943	2369.0091	3.2467	0.8262	0.039
9468	2369.1432	0.4237	0.8255	0.039
11381	2369.6692	3.3274	0.8252	0.039
19890	2375.2426	3.4439	0.8289	0.0393
3298	2379.1522	3.066	0.8311	0.0394
19988	2380.2887	3.3026	0.8312	0.0394
1721	2380.5272	1.9201	0.8305	0.0395
14259	2380.6463	1.9817	0.8298	0.0395
9910	2380.9001	3.4775	0.8292	0.0395
3780	2381.6894	3.1946	0.829	0.0395
7874	2382.0616	3.4644	0.8285	0.0395
11474	2383.2808	3.3121	0.8287	0.0396
7468	2385.0165	2.5106	0.8294	0.0396
4411	2388.4883	3.5961	0.8313	0.0398
2818	2390.4266	3.4326	0.8321	0.0399
3731	2390.4897	3.617	0.8313	0.0399
11397	2390.7212	3.6373	0.8306	0.0399

18012	2391.1397	3.4207	0.8302	0.0399
18553	2391.4167	3.5838	0.8296	0.0399
11220	2393.3401	3.4202	0.8304	0.04
10383	2393.8348	3.4786	0.83	0.04
11641	2394.0274	1.4923	0.8294	0.04
18211	2395.2349	3.1622	0.8294	0.0401
8488	2395.3159	2.9099	0.8287	0.0401
10965	2397.1937	3.1395	0.8292	0.0401
16047	2399.9881	2.5302	0.8304	0.0402
10421	2400.8744	1.8312	0.8303	0.0403
18047	2400.9193	1.4088	0.8295	0.0403
18276	2401.5784	3.6413	0.8291	0.0403
14853	2402.3	3.0188	0.8289	0.0403
18661	2408.5808	3.3863	0.833	0.0406
18265	2409.2115	2.1933	0.8327	0.0406
10245	2409.5726	3.3975	0.8321	0.0406
14248	2413.7954	3.1489	0.8345	0.0407
4345	2417.1941	3.0638	0.8367	0.0409
16677	2417.7866	2.7286	0.8365	0.0409
12095	2418.5096	3.2866	0.8362	0.041
14079	2420.1142	3.0387	0.8367	0.041
7124	2420.9852	3.3586	0.8365	0.0411
15563	2421.2848	2.7572	0.8359	0.0411
16573	2421.4838	3.3741	0.8352	0.0411
19476	2421.586	2.4378	0.8345	0.0411
3035	2423.4962	3.2292	0.8352	0.0411
11100	2424.7457	2.8979	0.8354	0.0412
18056	2426.6987	3.5763	0.8363	0.0413
9792	2428.6996	2.8169	0.8373	0.0414
16514	2429.3855	3.3658	0.837	0.0414
16934	2430.3206	3.3187	0.837	0.0414
9165	2431.0024	2.6804	0.8368	0.0415
13865	2432.0048	3.363	0.8369	0.0415
14274	2432.5589	3.3885	0.8365	0.0415

10395	2435.146	3.2659	0.838	0.0417
16481	2435.1543	3.2311	0.8372	0.0417
1319	2438.1409	3.5234	0.8388	0.0418
1216	2441.6575	3.2537	0.8407	0.0419
18766	2442.2107	2.7375	0.8403	0.0419
17026	2442.8353	3.684	0.84	0.042
4361	2443.1702	3.2007	0.8395	0.042
8289	2443.2421	2.7681	0.8387	0.042
17558	2444.0749	3.1097	0.8384	0.042
18806	2444.2915	3.5914	0.8378	0.042
15188	2445.2073	3.4402	0.8377	0.042
5114	2445.2195	3.3156	0.8369	0.042
19075	2446.1687	3.5613	0.8369	0.0421
3060	2446.7247	2.7798	0.8366	0.0421
10989	2446.7679	3.4815	0.8358	0.0421
5071	2447.4237	2.852	0.8356	0.0421
18366	2450.0177	2.9219	0.837	0.0423
15562	2452.3589	3.551	0.838	0.0424
20254	2452.7315	3.2309	0.8375	0.0424
10361	2453.8741	2.4976	0.8378	0.0424
11401	2456.8013	3.3173	0.8393	0.0425
5760	2457.2105	2.8599	0.8387	0.0426
18813	2462.5288	2.4534	0.8422	0.0428
18601	2463.4609	3.3476	0.8421	0.0428
9184	2465.2414	2.603	0.8429	0.0429
1843	2465.4248	3.3985	0.8422	0.0429
15888	2467.099	3.3523	0.843	0.043
20372	2468.4328	2.2302	0.8431	0.043
2750	2469.9868	3.4072	0.8435	0.0431
10712	2470.5064	3.4092	0.843	0.0431
10836	2473.0526	3.2062	0.8441	0.0432
19081	2473.4604	2.8428	0.8436	0.0432
19444	2473.6544	2.333	0.843	0.0432
15181	2479.981	3.2857	0.8473	0.0435

1655	2481.9794	2.5406	0.8481	0.0436
17633	2483.4584	3.3885	0.8485	0.0436
18506	2483.6443	1.3541	0.8478	0.0436
2703	2483.9415	2.7827	0.8473	0.0437
4154	2488.8862	3.427	0.8502	0.0438
4959	2489.1591	3.2517	0.8496	0.0438
8656	2490.1822	3.3842	0.8497	0.0439
16445	2491.8493	3.2498	0.8502	0.044
15332	2491.8885	3.3126	0.8494	0.044
17215	2492.0863	2.8805	0.8487	0.044
11143	2495.2078	3.1085	0.8502	0.0441
1336	2496.6573	2.7112	0.8507	0.0442
4150	2497.3106	3.0184	0.8504	0.0442
18039	2497.3303	3.0309	0.8497	0.0442
17431	2499.3619	3.3041	0.8505	0.0443
14645	2499.6965	3.1549	0.85	0.0443
18493	2500.4268	3.4542	0.8497	0.0443
17732	2501.3764	3.1533	0.8497	0.0444
14093	2504.3006	3.2032	0.8512	0.0445
19438	2506.0167	2.6361	0.8518	0.0445
2650	2506.3939	2.3239	0.8513	0.0446
13719	2507.3163	3.098	0.8512	0.0446
15583	2510.3126	3.4183	0.8528	0.0447
11924	2511.3035	3.2942	0.8528	0.0448
15198	2511.5527	3.263	0.8522	0.0448
12086	2512.1252	3.1311	0.8519	0.0448
11618	2513.3367	1.952	0.8519	0.0448
3768	2513.9202	2.5227	0.8515	0.0449
2533	2513.9801	1.9917	0.8508	0.0449
20150	2514.7361	3.3295	0.8507	0.0449
14562	2516.1341	2.9322	0.851	0.045
5035	2516.7389	3.1546	0.8508	0.045
15247	2519.143	3.3556	0.8519	0.0451
11461	2520.5707	3.011	0.8524	0.0452

14084	2524.6703	3.4303	0.8549	0.0453
6890	2524.8967	1.9153	0.8543	0.0453
15278	2525.4588	2.6622	0.8538	0.0454
13506	2525.6957	2.7471	0.8532	0.0454
3639	2526.7674	3.3202	0.8533	0.0454
14598	2530.0455	3.3789	0.8549	0.0455
11722	2530.5296	2.4771	0.8544	0.0456
15615	2532.4085	3.1247	0.8552	0.0456
11126	2532.6307	2.6687	0.8546	0.0457
15319	2533.187	3.4487	0.8542	0.0457
12415	2533.3745	2.2095	0.8536	0.0457
9859	2534.2835	2.9029	0.8536	0.0457
17663	2537.0771	3.0757	0.8551	0.0458
8545	2537.9558	3.0242	0.8548	0.0459
14381	2539.0541	2.6257	0.855	0.0459
17793	2540.5099	2.7868	0.8553	0.046
15578	2541.2732	2.9939	0.8551	0.046
4432	2542.0213	2.9024	0.8549	0.046
20341	2542.7883	3.3433	0.8547	0.0461
15778	2545.3165	3.1642	0.8561	0.0462
7322	2545.6569	3.4829	0.8556	0.0462
214	2546.0617	3.1473	0.8551	0.0462
15163	2547.6122	3.246	0.8555	0.0463
2929	2549.4281	2.8942	0.8561	0.0464
4715	2553.0567	3.4342	0.8582	0.0465
5551	2553.4518	2.7522	0.8577	0.0465
18583	2556.662	2.9691	0.8593	0.0467
14288	2558.8422	3.0238	0.8602	0.0467
14411	2558.9954	3.3695	0.8595	0.0468
8351	2559.0276	1.9281	0.8588	0.0468
1976	2559.9905	2.1421	0.8588	0.0468
13141	2560.7276	2.3762	0.8586	0.0468
8707	2562.7061	3.2367	0.8593	0.0469
14845	2562.7431	3.1543	0.8585	0.0469

17873	2563.1447	3.1577	0.8581	0.0469
4048	2564.0428	2.8303	0.8581	0.047
18370	2564.4465	3.2667	0.8576	0.047
11062	2565.9099	2.8922	0.858	0.0471
15354	2566.4268	2.1387	0.8578	0.0471
6410	2566.5754	2.7359	0.8572	0.0471
10343	2567.8328	3.0444	0.8573	0.0471
17679	2568.9264	2.8992	0.8574	0.0472
1568	2568.9501	2.2874	0.8566	0.0472
11328	2569.3591	3.2257	0.8562	0.0472
5632	2571.4547	3.4015	0.8568	0.0473
14705	2571.5915	2.6883	0.8562	0.0473
4902	2571.6006	2.7921	0.8554	0.0473
3536	2573.8933	3.0581	0.8565	0.0474
4574	2574.253	2.4452	0.8561	0.0474
4076	2574.8554	3.2713	0.8556	0.0474
6883	2575.2225	0.9941	0.8551	0.0474
5454	2575.2894	3.0942	0.8544	0.0474
1492	2575.4372	3.233	0.8538	0.0474
11376	2575.7214	3.1658	0.8532	0.0475
16371	2576.7859	2.4194	0.8533	0.0475
17318	2578.7604	2.885	0.8541	0.0476
10544	2579.0433	3.1812	0.8536	0.0476
2543	2579.2103	2.5007	0.8529	0.0476
9640	2580.5329	2.1748	0.8531	0.0477
20132	2584.1448	3.1195	0.855	0.0478
4866	2584.2169	3.0949	0.8543	0.0478
3566	2585.5478	3.267	0.8545	0.0479
6535	2585.5722	3.1988	0.8538	0.0479
16153	2587.2982	2.6945	0.8545	0.0479
9429	2590.2444	1.135	0.8559	0.0481
8640	2594.1045	3.097	0.858	0.0482
8783	2594.8357	3.1378	0.8579	0.0483
20324	2596.3234	3.309	0.8583	0.0483

10947	2596.8698	2.6657	0.8579	0.0483
3480	2597.054	3.2038	0.8573	0.0484
6926	2600.8973	3.0531	0.8595	0.0485
8845	2600.9685	2.8253	0.8588	0.0485
2177	2601.0525	1.1674	0.8582	0.0485
4993	2604.3576	3.1586	0.8598	0.0487
18762	2607.5497	3.0392	0.8614	0.0488
10344	2610.6802	1.6808	0.8632	0.0489
2685	2613.7204	3.0926	0.8646	0.0491
7958	2613.7596	2.8069	0.8639	0.0491
14292	2614.503	3.1067	0.8637	0.0491
15478	2614.6943	3.1056	0.8632	0.0491
3900	2620.0359	3.0986	0.8663	0.0493
13713	2620.1563	3.0679	0.8657	0.0493
11396	2621.8432	2.9782	0.8663	0.0494
20423	2622.384	2.9145	0.8659	0.0494
4905	2622.4725	3.1869	0.8652	0.0494
19869	2622.9798	1.6596	0.8648	0.0495
11507	2624.2547	3.0852	0.865	0.0495
2006	2624.9061	3.161	0.8647	0.0495
13980	2627.7453	2.8416	0.8661	0.0497
19812	2629.3217	2.9372	0.8665	0.0497
20221	2629.3358	2.8201	0.8657	0.0497
2834	2631.1298	2.4672	0.8666	0.0498
10360	2631.6763	3.1306	0.8663	0.0498
5469	2631.9159	3.1145	0.8657	0.0498
13494	2632.6074	2.7314	0.8655	0.0499
5722	2634.6092	2.2392	0.8663	0.05

**RankProd algorithm - Genes identified by RankProd to be up regulated
in TB-interface compared to TA-area with $p < 0.05$**

gene.index	RP/Rsum	FC:(class1/class2)	pfp	P.value	
1436	9.9309	0.0069	0	0	
2718	40.82	0.0255	0.005	0	
1252	177.7093	0.0609	0.2433	0	
19793	193.9968	0.0724	0.2625	1.00E-04	
8111	199.0572	0.0666	0.222	1.00E-04	
18834	208.7201	0.0616	0.205	1.00E-04	
234	212.0564	0.0597	0.1886	1.00E-04	
5870	215.4076	0.0752	0.17	1.00E-04	
15678	264.7594	0.0726	0.2611	1.00E-04	
17560	279.0623	0.0719	0.263	1.00E-04	
19672	336.7788	0.0787	0.4009	2.00E-04	
7619	373.3491	0.1093	0.5025	3.00E-04	
12307	376.7996	0.0802	0.4754	3.00E-04	
11194	411.4934	0.106	0.58	4.00E-04	
19090	416.6164	0.1127	0.5527	4.00E-04	
13720	423.5865	0.1088	0.5475	4.00E-04	
2423	429.583	0.1653	0.5394	4.00E-04	
221	440.9742	0.0929	0.5456	5.00E-04	
5278	468.4167	0.1163	0.6221	6.00E-04	
5085	482.2749	0.148	0.638	6.00E-04	
9510	484.5014	0.1083	0.6186	6.00E-04	
7473	487.4145	0.1213	0.5964	6.00E-04	
16014	488.4766	0.1053	0.5739	6.00E-04	
327	491.0395	0.1362	0.5596	7.00E-04	
8119	493.2269	0.0953	0.544	7.00E-04	
19998	499.0775	0.0943	0.5404	7.00E-04	
3600	499.1224	0.1053	0.5204	7.00E-04	
793	503.4651	0.1006	0.5175	7.00E-04	
19029	509.4955	0.1118	0.5169	7.00E-04	
17183	513.3841	0.1156	0.5097	7.00E-04	

6659	521.0071	0.129	0.5113	8.00E-04
20126	538.3264	0.1396	0.5444	9.00E-04
12252	548.2772	0.1119	0.56	9.00E-04
16111	552.2419	0.1019	0.5532	9.00E-04
13476	557.482	0.1495	0.5494	9.00E-04
2198	565.8356	0.1771	0.5589	0.001
1661	573.7605	0.1395	0.567	0.001
16519	574.0215	0.1265	0.5534	0.001
8809	575.2043	0.1689	0.541	0.001
19724	577.2136	0.1612	0.5338	0.001
7905	589.2985	0.107	0.5524	0.0011
17464	591.069	0.1357	0.5429	0.0011
18790	593.0985	0.1065	0.5363	0.0011
13403	605.5373	0.1333	0.5541	0.0012
5487	609.4745	0.1124	0.55	0.0012
16709	612.6871	0.1339	0.5437	0.0012
4288	615.0407	0.1205	0.5357	0.0012
2991	615.8322	0.1354	0.5273	0.0012
13593	631.3134	0.115	0.5476	0.0013
7545	659.5269	0.1116	0.612	0.0015
17754	662.3246	0.2221	0.6075	0.0015
5031	668.4381	0.1499	0.6133	0.0016
15171	681.9588	0.2416	0.6362	0.0016
5960	682.4512	0.1174	0.6265	0.0017
13788	691.1518	0.1915	0.6364	0.0017
14786	703.1374	0.1494	0.6561	0.0018
1525	705.554	0.142	0.6532	0.0018
3808	706.2034	0.1293	0.6443	0.0018
14187	715.9979	0.1832	0.6624	0.0019
19956	717.4628	0.178	0.6548	0.0019
1918	720.0759	0.1437	0.6507	0.0019
2374	723.8188	0.1391	0.6503	0.002
17417	740.4525	0.1413	0.6789	0.0021
1531	749.1294	0.1663	0.6914	0.0022

14671	752.2536	0.1349	0.6874	0.0022
14886	753.6908	0.1526	0.6803	0.0022
19714	765.2637	0.4724	0.6997	0.0023
1173	772.8856	0.2144	0.7054	0.0023
16782	780.8608	0.1467	0.712	0.0024
13560	784.7274	0.1303	0.7099	0.0024
17345	786.7553	0.201	0.7037	0.0024
16467	789.426	0.2035	0.6989	0.0025
11257	794.8061	0.2475	0.7014	0.0025
6661	795.2134	0.192	0.6928	0.0025
13815	798.294	0.1464	0.6904	0.0025
6872	801.2897	0.1591	0.6882	0.0026
10990	806.575	0.2257	0.6896	0.0026
238	808.3459	0.1646	0.6837	0.0026
4273	810.8953	0.1334	0.6806	0.0026
18900	819.8552	0.1527	0.693	0.0027
3533	827.7864	0.1332	0.7002	0.0028
14347	828.6903	0.1624	0.6934	0.0028
7659	829.0192	0.2116	0.6858	0.0028
9707	830.2292	0.2203	0.6802	0.0028
19703	832.661	0.1457	0.6772	0.0028
18636	846.0281	0.1564	0.7019	0.003
4464	851.706	0.1587	0.7061	0.003
308	852.805	0.2044	0.7008	0.003
4287	858.0567	0.1473	0.703	0.0031
18192	862.3128	0.1525	0.7033	0.0031
6627	864.4083	0.1859	0.6995	0.0031
2327	867.7302	0.1442	0.6995	0.0031
5710	872.8048	0.1561	0.7028	0.0032
7446	877.163	0.1609	0.7049	0.0032
18461	879.8523	0.1646	0.7029	0.0033
12895	881.4736	0.1705	0.7003	0.0033
6948	886.9294	0.1473	0.7046	0.0033
6895	887.2745	0.1377	0.698	0.0033

20369	887.8982	0.1802	0.6923	0.0033
5895	895.417	0.1611	0.7012	0.0034
7432	901.8948	0.2351	0.7063	0.0035
9826	903.0029	0.2027	0.7016	0.0035
17118	903.5934	0.166	0.696	0.0035
5835	910.0008	0.1878	0.7006	0.0036
10698	910.0588	0.1615	0.6939	0.0036
68	913.9264	0.1583	0.6937	0.0036
11230	915.3474	0.1439	0.6892	0.0036
16286	916.2191	0.1746	0.6847	0.0036
6405	918.6451	0.2006	0.6833	0.0036
11529	920.0457	0.1577	0.679	0.0037
8596	926.5587	0.1651	0.6849	0.0037
9468	929.8684	0.4237	0.6843	0.0037
12941	937.238	0.1965	0.6931	0.0038
16297	943.3158	0.2088	0.7001	0.0039
4186	943.3581	0.1715	0.6941	0.0039
15242	944.4624	0.1677	0.6899	0.0039
422	950.8095	0.1474	0.6952	0.004
15321	952.8823	0.1628	0.6936	0.004
9634	959.0831	0.1559	0.7015	0.0041
17996	960.469	0.1641	0.6981	0.0041
20452	968.9884	0.3545	0.7098	0.0042
18164	969.5008	0.1958	0.7045	0.0042
8798	971.9669	0.1551	0.7036	0.0042
7236	974.0696	0.154	0.7015	0.0043
17284	975.6675	0.1523	0.6994	0.0043
13080	984.7978	0.1664	0.7109	0.0044
3302	997.3885	0.1656	0.7284	0.0045
240	1002.6048	0.1769	0.7329	0.0046
4249	1008.9565	0.2084	0.7391	0.0047
17514	1010.7296	0.1636	0.7362	0.0047
1461	1011.119	0.1879	0.7315	0.0047
6192	1012.3864	0.2177	0.7283	0.0047

2456	1016.8991	0.2096	0.7301	0.0047
17076	1017.7469	0.172	0.7261	0.0048
18680	1019.3651	0.1625	0.7237	0.0048
4328	1023.277	0.173	0.7257	0.0048
7036	1024.812	0.1924	0.7228	0.0048
14749	1025.2761	0.175	0.7183	0.0048
1724	1027.5492	0.2217	0.7174	0.0049
4584	1027.6365	0.1585	0.7127	0.0049
17126	1035.5804	0.254	0.7223	0.005
9044	1040.3895	0.2682	0.7256	0.005
17562	1046.5088	0.1942	0.7308	0.0051
16453	1046.7918	0.1723	0.7262	0.0051
2158	1070.3287	0.1718	0.7643	0.0054
9987	1070.6116	0.1656	0.7597	0.0054
11131	1073.5525	0.2036	0.7606	0.0055
3593	1078.365	0.2113	0.7636	0.0055
1197	1080.0022	0.1735	0.7617	0.0055
13675	1081.7016	0.1938	0.7601	0.0056
5365	1085.0222	0.1624	0.7614	0.0056
11382	1097.617	0.1778	0.7779	0.0058
7199	1098.8555	0.2102	0.7752	0.0058
9942	1101.0074	0.1971	0.774	0.0058
805	1101.5879	0.3322	0.7698	0.0058
12031	1103.6975	0.1962	0.7687	0.0059
20401	1103.8061	0.1739	0.7641	0.0059
2488	1104.2377	0.1665	0.7601	0.0059
18633	1106.5223	0.1733	0.7593	0.0059
16955	1108.0197	0.2251	0.7566	0.0059
3709	1110.7849	0.1865	0.756	0.0059
19715	1112.6349	0.2152	0.7541	0.006
18994	1114.8573	0.1995	0.7534	0.006
11088	1118.0165	0.1858	0.754	0.006
11732	1118.0275	0.2083	0.7495	0.006
3928	1125.682	0.2374	0.7569	0.0061

5158	1134.0024	0.289	0.7681	0.0063
11600	1135.9803	0.1717	0.7667	0.0063
5827	1136.4033	0.189	0.7627	0.0063
5059	1145.7156	0.1812	0.7731	0.0064
14798	1145.7729	0.1922	0.7687	0.0064
10640	1146.4739	0.3013	0.7655	0.0064
5519	1148.7535	0.2047	0.7654	0.0065
18533	1154.5322	0.2742	0.7711	0.0066
17524	1154.9309	0.204	0.7677	0.0066
5653	1157.4271	0.1891	0.7676	0.0066
12171	1159.551	0.194	0.7671	0.0066
5137	1160.9417	0.1866	0.7657	0.0067
7456	1161.4482	0.1921	0.7627	0.0067
17764	1170.1409	0.2295	0.7737	0.0068
3588	1176.5336	0.1917	0.7807	0.0069
17944	1182.6282	0.2153	0.7864	0.007
7397	1183.2912	0.2114	0.7835	0.007
10587	1186.575	0.2082	0.7855	0.0071
18598	1189.9935	0.1852	0.7874	0.0071
2616	1190.0849	0.2029	0.7832	0.0071
4681	1192.4518	0.1876	0.7824	0.0072
17719	1199.7286	0.1892	0.7895	0.0073
7289	1199.929	0.1791	0.7857	0.0073
18706	1202.2653	0.2245	0.7863	0.0073
10223	1203.2215	0.2159	0.7837	0.0073
7713	1204.5032	0.2347	0.7814	0.0073
4061	1205.8289	0.2048	0.7794	0.0074
17500	1207.5486	0.2492	0.7784	0.0074
16750	1208.7558	0.2874	0.7765	0.0074
9299	1208.8959	0.2477	0.7728	0.0074
15451	1209.4242	0.1998	0.7694	0.0074
893	1211.4356	0.1759	0.7687	0.0074
6216	1211.844	0.3506	0.7655	0.0074
8433	1215.0544	0.2722	0.7669	0.0075

10615	1218.7159	0.1888	0.7681	0.0075
11316	1222.412	0.1943	0.7695	0.0076
3936	1226.0688	0.2179	0.7706	0.0076
20268	1232.025	0.2064	0.7758	0.0077
16189	1233.237	0.2222	0.7739	0.0078
16644	1238.3018	0.2395	0.7777	0.0078
11798	1252.9317	0.1805	0.7973	0.0081
19261	1257.0472	0.2054	0.8001	0.0081
19084	1257.8764	0.3078	0.7977	0.0081
3623	1258.2219	0.2336	0.7946	0.0082
3876	1263.2654	0.1985	0.7993	0.0082
2234	1263.4177	0.2764	0.7957	0.0082
18444	1268.1584	0.1804	0.7992	0.0083
7461	1270.2294	0.1986	0.7985	0.0084
4656	1275.1613	0.2427	0.8041	0.0084
4539	1281.1261	0.2106	0.8104	0.0086
15807	1282.9839	0.202	0.8097	0.0086
5708	1283.8955	0.2193	0.8073	0.0086
4953	1286.8693	0.2074	0.808	0.0086
12195	1290.0031	0.2811	0.8095	0.0087
16289	1291.7155	0.2019	0.809	0.0087
5207	1291.8612	0.2409	0.8055	0.0087
6645	1293.2192	0.3283	0.8041	0.0088
4784	1306.4653	0.2218	0.8221	0.009
9007	1308.2576	0.201	0.8213	0.009
3057	1319.3889	0.2167	0.8353	0.0092
4598	1322.0604	0.2199	0.8361	0.0093
16817	1325.9496	0.2649	0.838	0.0093
10365	1326.9092	0.2376	0.8357	0.0094
9239	1327.5461	0.2506	0.8327	0.0094
16565	1330.2022	0.1985	0.8334	0.0094
1642	1330.2421	0.2315	0.8299	0.0094
7569	1330.5131	0.2065	0.8267	0.0094
18394	1332.3147	0.1895	0.8256	0.0094

8682	1336.1135	0.5897	0.8277	0.0095
4013	1339.027	0.2721	0.8292	0.0096
8018	1339.7521	0.2108	0.8265	0.0096
15266	1340.2043	0.2209	0.8238	0.0096
3212	1342.3661	0.3904	0.8241	0.0096
19601	1343.1641	0.2936	0.8222	0.0096
2111	1344.5903	0.2185	0.8209	0.0097
3392	1346.0064	0.2639	0.8196	0.0097
11205	1347.5164	0.3276	0.8182	0.0097
3411	1348.5675	0.2007	0.8166	0.0097
11152	1355.4326	0.2128	0.8234	0.0099
11953	1363.9574	0.1968	0.8346	0.01
5390	1366.6316	0.3199	0.8355	0.0101
3188	1368.1365	0.2958	0.8344	0.0101
11241	1368.495	0.2731	0.8316	0.0101
5037	1370.1744	0.2001	0.8308	0.0102
14231	1371.8783	0.2524	0.8306	0.0102
2145	1378.0563	0.2234	0.8367	0.0103
2653	1379.4918	0.2304	0.8351	0.0103
8549	1381.6456	0.2595	0.835	0.0104
1972	1384.2573	0.2459	0.8354	0.0104
1853	1384.4393	0.3261	0.8326	0.0104
2846	1388.807	0.22	0.8365	0.0105
5081	1390.7766	0.2134	0.8363	0.0105
4943	1391.1439	0.2103	0.8337	0.0106
18620	1392.9523	0.267	0.8337	0.0106
5668	1394.347	0.2247	0.8326	0.0106
10715	1397.325	0.5402	0.834	0.0107
16947	1398.5906	0.2389	0.8328	0.0107
2380	1399.0112	0.4047	0.8302	0.0107
1053	1399.5941	0.2762	0.8282	0.0107
3769	1405.2073	0.2344	0.8341	0.0108
7900	1410.1215	0.201	0.8388	0.0109
12675	1411.3536	0.2223	0.8376	0.011

4084	1412.8851	0.6724	0.8371	0.011
15088	1413.0953	0.2199	0.8345	0.011
19717	1413.8671	0.211	0.8329	0.011
2086	1415.2581	0.2165	0.8314	0.0111
14533	1420.7669	0.2137	0.8353	0.0111
12001	1424.2253	0.2594	0.8372	0.0112
8325	1424.7943	0.2477	0.8351	0.0112
2961	1426.3627	0.2412	0.8342	0.0113
14563	1427.2809	0.2345	0.8326	0.0113
16764	1431.2314	0.3409	0.8352	0.0113
14226	1432.0958	0.2484	0.8334	0.0114
11625	1432.2575	0.2194	0.8306	0.0114
13717	1433.0279	0.221	0.8289	0.0114
9171	1435.8372	0.2074	0.8298	0.0114
14441	1437.8207	0.2673	0.8292	0.0115
19066	1438.0761	0.2385	0.8268	0.0115
18471	1438.1455	0.2132	0.824	0.0115
18561	1441.9522	0.2455	0.8263	0.0116
4462	1442.2537	0.2182	0.8239	0.0116
5677	1444.2532	0.2255	0.8236	0.0116
12823	1445.6618	0.2542	0.8228	0.0116
4787	1448.3092	0.2663	0.824	0.0117
10357	1452.0647	0.2236	0.8263	0.0118
13038	1454.2797	0.2375	0.8259	0.0118
7671	1457.0381	0.5132	0.8272	0.0118
5451	1457.6843	0.2238	0.8254	0.0119
17577	1459.3587	0.3081	0.825	0.0119
19871	1461.8732	0.2151	0.8264	0.012
20048	1465.2457	0.2529	0.8278	0.012
13064	1465.2628	0.2559	0.8251	0.012
5973	1469.1133	0.2145	0.8276	0.0121
6951	1469.2823	0.2519	0.8251	0.0121
12704	1471.2068	0.2594	0.8254	0.0121
9850	1471.274	0.2269	0.8227	0.0121

16643	1471.931	0.2854	0.8209	0.0122
2885	1476.8894	0.2575	0.8245	0.0123
7968	1478.7673	0.2491	0.8245	0.0123
836	1479.0961	0.225	0.8222	0.0123
13177	1481.2204	0.2347	0.8231	0.0124
3618	1489.5239	0.8337	0.8322	0.0125
7698	1490.2915	0.2227	0.8308	0.0125
20068	1491.3674	0.2398	0.8298	0.0126
9090	1491.581	0.2391	0.8274	0.0126
19469	1492.9165	0.2725	0.8263	0.0126
15348	1493.7972	0.2498	0.8246	0.0126
3583	1494.4146	0.2209	0.8227	0.0126
4437	1497.9495	0.2572	0.8252	0.0127
12771	1503.4265	0.2265	0.8307	0.0128
15316	1503.6563	0.2305	0.8286	0.0128
15488	1505.9173	0.2467	0.829	0.0129
2339	1506.3884	0.2271	0.8272	0.0129
4707	1506.7335	0.3311	0.825	0.0129
14922	1509.0348	0.2738	0.8257	0.013
15361	1515.832	0.2239	0.8318	0.0131
10326	1516.9155	0.2775	0.8308	0.0131
12287	1517.6553	0.2671	0.8293	0.0131
15947	1517.9834	0.3291	0.8271	0.0131
4257	1518.5932	0.2482	0.8255	0.0132
4967	1523.7348	0.2182	0.8308	0.0133
14257	1524.375	0.2697	0.8291	0.0133
18466	1524.591	0.2275	0.8269	0.0133
18859	1528.1682	0.2352	0.8291	0.0134
16491	1528.5394	0.2499	0.8272	0.0134
11963	1528.6373	0.4145	0.8249	0.0134
15280	1529.0639	0.2188	0.8231	0.0134
7789	1529.8218	0.4662	0.8217	0.0134
18693	1532.7422	0.2238	0.8236	0.0135
2396	1535.9533	0.2184	0.8258	0.0136

8059	1540.6596	0.2616	0.8291	0.0137
18738	1541.3829	0.2233	0.8275	0.0137
9106	1542.6788	0.2618	0.8268	0.0137
20220	1544.1431	0.245	0.8261	0.0137
11193	1544.3515	0.3215	0.8242	0.0137
12899	1545.6588	0.2708	0.8237	0.0138
17581	1546.2044	0.2362	0.8219	0.0138
14714	1552.7487	0.2634	0.8274	0.0139
1117	1556.9957	0.236	0.8312	0.014
18468	1558.9818	0.2773	0.8313	0.0141
16239	1562.9076	0.3204	0.8345	0.0142
630	1564.4262	0.2241	0.8342	0.0142
3419	1565.0519	0.2339	0.8326	0.0142
2527	1567.3974	0.2863	0.8336	0.0143
5818	1567.7156	0.2213	0.8316	0.0143
15314	1568.1446	0.2479	0.8298	0.0143
8359	1575.824	0.2716	0.8367	0.0144
1766	1575.8668	0.2558	0.8344	0.0144
2999	1576.6613	0.2603	0.8332	0.0145
4619	1578.5877	0.241	0.833	0.0145
12311	1579.3296	0.2697	0.8317	0.0145
17281	1583.6939	0.306	0.8358	0.0146
14680	1583.7342	0.4247	0.8335	0.0146
12166	1584.5233	0.2358	0.8322	0.0146
19630	1585.5613	0.226	0.8311	0.0147
5000	1591.2702	0.2199	0.836	0.0148
7497	1593.6371	0.2675	0.8369	0.0148
15376	1597.2732	0.2652	0.8396	0.0149
17496	1599.23	0.26	0.8399	0.015
13624	1601.6473	0.2295	0.8407	0.015
211	1613.8838	0.3399	0.8548	0.0153
13983	1615.1631	0.2435	0.8543	0.0154
15875	1615.3998	0.3208	0.8522	0.0154
9663	1616.5248	0.2233	0.8512	0.0154

3090	1616.737	0.2757	0.8492	0.0154
17381	1621.5745	0.4409	0.8528	0.0155
12202	1624.0455	0.3198	0.8535	0.0156
7277	1624.4274	0.2426	0.8518	0.0156
146	1625.6447	0.2912	0.8511	0.0156
17087	1626.9425	0.2677	0.8503	0.0156
12691	1627.2235	0.3266	0.8484	0.0156
5269	1631.0852	0.2379	0.8506	0.0157
14240	1631.8913	0.2289	0.8498	0.0157
13756	1632.8284	0.2672	0.8487	0.0158
11365	1633.1993	0.3413	0.8471	0.0158
15632	1635.3022	0.2663	0.8477	0.0158
169	1635.4669	0.2496	0.8459	0.0158
19303	1636.4454	0.3029	0.8453	0.0159
16154	1643.5129	0.3202	0.8525	0.016
1998	1644.3206	0.2414	0.8512	0.0161
2439	1644.5124	0.2817	0.8493	0.0161
2717	1646.2124	0.2657	0.8498	0.0161
17045	1647.0035	0.3154	0.8488	0.0161
14484	1647.0138	0.2826	0.8466	0.0161
4177	1647.9175	0.2717	0.8453	0.0162
441	1648.0268	0.3763	0.8434	0.0162
16932	1649.9845	0.25	0.8437	0.0162
9884	1655.3565	0.2305	0.8486	0.0163
8605	1655.9548	0.2372	0.8471	0.0164
1084	1656.8865	0.3137	0.8463	0.0164
17027	1657.8729	0.2628	0.8454	0.0164
13888	1659.2975	0.2905	0.8454	0.0164
10724	1659.4142	0.4383	0.8434	0.0164
1799	1661.8524	0.3059	0.844	0.0165
3986	1663.0615	0.2932	0.8431	0.0165
9819	1663.5467	0.3539	0.8415	0.0165
914	1663.7359	0.2633	0.8397	0.0165
4835	1664.7979	0.2356	0.839	0.0166

16401	1666.3724	0.2467	0.8392	0.0166
6808	1672.1816	0.2489	0.8449	0.0168
16858	1679.0215	0.2345	0.8508	0.0169
3072	1679.3278	0.376	0.8492	0.0169
18852	1682.3923	0.2404	0.8505	0.017
18487	1684.4271	0.3111	0.8511	0.0171
1372	1685.1944	0.2592	0.8497	0.0171
2500	1689.6075	0.2397	0.8535	0.0172
10578	1689.6887	0.3269	0.8516	0.0172
4241	1693.2989	0.303	0.8536	0.0173
7615	1694.7274	0.3196	0.8533	0.0173
16843	1695.8852	0.2784	0.8525	0.0173
20259	1697.192	0.3034	0.852	0.0174
1841	1697.7788	0.3188	0.8505	0.0174
10545	1698.1087	0.2461	0.8488	0.0174
20159	1699.622	0.3647	0.8487	0.0174
15351	1702.1172	0.237	0.8496	0.0175
15851	1705.0489	0.292	0.8516	0.0176
4638	1706.8787	0.2543	0.8516	0.0176
6341	1709.1466	0.376	0.8528	0.0177
3464	1715.0016	0.2569	0.8581	0.0178
3181	1715.0676	0.2811	0.8562	0.0178
12509	1715.2056	0.4533	0.8543	0.0178
18676	1717.5954	0.2521	0.8548	0.0179
19157	1717.9573	0.2745	0.8534	0.0179
2886	1718.9739	0.3267	0.8526	0.0179
4925	1720.9155	0.314	0.8527	0.018
10669	1721.4088	0.3819	0.8511	0.018
10293	1724.489	0.2511	0.8531	0.0181
7406	1725.533	0.274	0.8527	0.0181
1163	1726.6936	0.2498	0.8521	0.0181
868	1731.3908	0.2786	0.8563	0.0182
15183	1732.0093	0.266	0.8551	0.0183
5547	1733.8522	0.2484	0.8551	0.0183

3528	1734.3133	0.2707	0.8537	0.0183
11802	1736.1682	0.3016	0.8543	0.0184
7971	1736.3158	0.3767	0.8527	0.0184
7741	1736.7049	0.2786	0.8513	0.0184
12302	1739.416	0.2613	0.8525	0.0185
15001	1739.7665	0.2409	0.8511	0.0185
7627	1740.617	0.2556	0.8504	0.0185
19594	1742.5841	0.2583	0.8507	0.0185
16337	1745.4546	0.259	0.8525	0.0186
7680	1746.9263	0.248	0.8525	0.0187
10082	1755.1329	0.2482	0.86	0.0189
15593	1755.2411	0.259	0.8582	0.0189
3757	1756.6697	0.2751	0.8582	0.0189
8156	1756.8523	0.3511	0.8566	0.0189
4878	1764.0993	0.3122	0.8629	0.0191
19226	1765.4216	0.2439	0.8625	0.0191
4334	1766.903	0.4168	0.8624	0.0192
12453	1768.1134	0.2505	0.862	0.0192
20258	1769.6099	0.3218	0.8621	0.0193
5937	1770.9579	0.2465	0.8621	0.0193
5889	1770.9735	0.3161	0.8603	0.0193
2881	1772.0015	0.3346	0.8596	0.0193
15239	1773.4218	0.2542	0.8593	0.0194
15655	1773.6968	0.3169	0.8577	0.0194
16200	1780.3009	0.3279	0.8638	0.0195
3227	1786.3717	0.2685	0.8692	0.0197
16707	1787.3469	0.2996	0.8684	0.0197
15103	1788.587	0.356	0.8678	0.0198
3196	1788.9068	0.4773	0.8664	0.0198
13930	1791.0498	0.2488	0.8674	0.0198
1349	1792.5118	0.4918	0.8671	0.0199
16773	1794.1953	0.2605	0.867	0.0199
10481	1794.4489	0.7117	0.8655	0.0199
14881	1796.3643	0.2708	0.8658	0.02

8443	1796.9915	0.265	0.8648	0.02
11717	1797.8173	0.2433	0.8641	0.02
14256	1798.3999	0.4412	0.8629	0.02
18855	1799.6469	0.2556	0.8623	0.0201
16101	1800.3245	0.3628	0.8612	0.0201
13970	1805.3104	0.2544	0.8644	0.0202
17926	1806.6793	0.3993	0.8645	0.0202
14774	1807.5517	0.2513	0.8636	0.0203
5836	1808.3705	0.2529	0.8628	0.0203
2294	1812.1712	0.2573	0.8651	0.0204
7755	1814.7884	0.2987	0.866	0.0204
12501	1816.09	0.2977	0.8661	0.0205
3337	1821.9658	0.3422	0.8706	0.0206
19375	1822.4965	0.2648	0.8693	0.0206
20378	1823.1164	0.3642	0.868	0.0207
2820	1829.0749	0.3536	0.8741	0.0208
9139	1830.8524	0.2622	0.8748	0.0209
13473	1832.0449	0.3436	0.8746	0.0209
20340	1833.6064	0.3541	0.8745	0.021
9853	1836.1323	0.2764	0.8753	0.021
10666	1836.2268	0.2569	0.8736	0.0211
2229	1838.4783	0.3444	0.8744	0.0211
4085	1841.7205	0.4543	0.8764	0.0212
18854	1843.4757	0.2745	0.8768	0.0213
4182	1847.0729	0.6191	0.8798	0.0214
9674	1850.2635	0.4319	0.8816	0.0215
18571	1850.6955	0.2822	0.8802	0.0215
15439	1853.9958	0.3541	0.8822	0.0216
7396	1855.8512	0.2924	0.8824	0.0216
9005	1860.3033	0.2855	0.8855	0.0217
19068	1866.0602	0.2786	0.8904	0.0219
2191	1866.8544	0.2816	0.8895	0.0219
4195	1868.5069	0.3387	0.8895	0.022
1267	1868.6674	0.3046	0.888	0.022

19908	1869.6257	0.288	0.8874	0.022
13816	1870.6748	0.2747	0.8869	0.022
16940	1871.3193	0.3864	0.886	0.022
8812	1872.2379	0.455	0.8854	0.0221
12779	1872.613	0.2675	0.8842	0.0221
20315	1873.7903	0.3855	0.8837	0.0221
11364	1878.3063	0.306	0.8873	0.0222
18982	1883.0928	0.3582	0.8913	0.0224
6347	1883.2311	0.2838	0.8897	0.0224
5911	1883.296	0.4186	0.8881	0.0224
11444	1884.9244	0.3692	0.8882	0.0224
17272	1886.2401	0.291	0.8883	0.0225
11606	1888.1754	0.2597	0.8887	0.0225
2490	1888.5375	0.3001	0.8874	0.0226
5845	1893.9485	0.5927	0.892	0.0227
19484	1896.8567	0.2906	0.8936	0.0228
773	1897.5429	0.4069	0.8928	0.0228
13037	1897.9345	0.2788	0.8913	0.0228
5545	1900.9067	0.3281	0.8931	0.0229
16418	1901.656	0.2654	0.8925	0.0229
12600	1901.6698	0.255	0.8908	0.0229
14320	1903.5715	0.2634	0.8917	0.023
10332	1903.6196	0.2648	0.8901	0.023
7863	1907.513	0.3308	0.8929	0.0231
4158	1908.0243	0.2765	0.8919	0.0231
19329	1909.1521	0.2701	0.8913	0.0232
19408	1909.93	0.2786	0.8906	0.0232
4811	1911.2747	0.2879	0.8907	0.0232
18416	1911.4607	0.2865	0.8894	0.0233
18189	1915.0445	0.2838	0.8917	0.0234
11523	1917.0636	0.3046	0.892	0.0234
18178	1918.0044	0.3807	0.8911	0.0234
2574	1919.0721	0.2895	0.8907	0.0235
14083	1921.2884	0.3387	0.892	0.0235

13782	1921.8121	0.2726	0.8912	0.0236
5340	1923.9126	0.2852	0.8925	0.0236
5749	1926.5689	0.4996	0.8938	0.0237
6881	1928.6801	0.3076	0.8947	0.0238
3174	1929.3432	0.4748	0.8938	0.0238
13714	1930.2117	0.3592	0.8932	0.0238
4525	1930.9907	0.3016	0.8925	0.0239
9020	1931.8756	0.3185	0.8918	0.0239
13892	1932.0395	0.3864	0.8905	0.0239
2094	1937.3909	0.3036	0.8948	0.0241
691	1937.7397	0.3981	0.8936	0.0241
5349	1937.8629	1.0402	0.8921	0.0241
6500	1942.5048	0.4113	0.8959	0.0242
18623	1942.6902	0.4117	0.8945	0.0242
5824	1944.1021	0.2716	0.8946	0.0243
3342	1945.4182	0.2944	0.8944	0.0243
7273	1948.8196	0.268	0.8968	0.0244
8408	1949.2879	0.2808	0.8959	0.0244
7624	1949.9046	0.2751	0.8949	0.0244
4842	1951.7805	0.934	0.8954	0.0245
15005	1952.0445	0.2999	0.8941	0.0245
17696	1953.2461	0.2703	0.8938	0.0246
2369	1955.6367	0.3229	0.8947	0.0246
8401	1956.5718	0.3097	0.8941	0.0246
4205	1957.2441	0.2978	0.8934	0.0247
5956	1957.71	0.27	0.8923	0.0247
5918	1958.6737	0.3194	0.8917	0.0247
10634	1959.4203	0.421	0.891	0.0247
14438	1959.9138	0.396	0.8899	0.0247
1677	1960.1267	0.4326	0.8886	0.0248
3489	1960.3127	0.279	0.8874	0.0248
11304	1960.6683	0.2949	0.8861	0.0248
6161	1961.3305	0.4342	0.8853	0.0248
13787	1963.5897	0.2702	0.8863	0.0249

8632	1968.8743	0.2935	0.8905	0.025
19038	1971.6559	0.3193	0.8918	0.0251
16422	1973.5251	0.3028	0.8923	0.0252
4700	1976.0294	0.2755	0.893	0.0252
9225	1976.1195	0.7173	0.8916	0.0252
4335	1976.4984	0.2977	0.8905	0.0252
13380	1979.1083	0.2776	0.8915	0.0253
13265	1980.8183	0.2715	0.8922	0.0254
2516	1981.6887	0.2658	0.8916	0.0254
7264	1983.4068	0.3278	0.892	0.0255
7777	1983.5228	0.4681	0.8906	0.0255
11156	1984.6999	0.307	0.8901	0.0255
4156	1986.5177	0.3895	0.8904	0.0255
3485	1986.7469	0.3567	0.8891	0.0256
4005	1986.927	0.2868	0.8877	0.0256
6633	1987.3978	1.0742	0.8866	0.0256
17032	1987.75	0.2736	0.8856	0.0256
13662	1988.5699	0.2828	0.885	0.0256
19591	1989.1717	0.2982	0.8842	0.0256
3310	1991.2056	0.3026	0.8851	0.0257
13795	1993.3557	0.2809	0.8859	0.0258
5541	1993.364	0.4688	0.8845	0.0258
8673	1993.5576	0.3608	0.8832	0.0258
19600	1994.9928	0.4456	0.8834	0.0258
9167	1995.5798	0.2863	0.8825	0.0258
12950	1998.4224	0.2885	0.8839	0.0259
7664	1999.1682	0.4923	0.8832	0.0259
2502	2000.4555	0.5037	0.8838	0.026
15652	2000.6102	0.2681	0.8824	0.026
14036	2002.5863	0.3978	0.883	0.0261
19649	2003.088	0.3114	0.8819	0.0261
875	2004.0382	0.2798	0.8814	0.0261
16642	2006.5958	0.3737	0.8829	0.0262
14567	2007.7075	0.2837	0.8825	0.0262

14322	2008.0646	0.3549	0.8814	0.0262
4416	2009.2013	0.2915	0.8811	0.0263
8792	2009.3505	0.2795	0.8799	0.0263
2963	2011.0159	0.3555	0.88	0.0263
2020	2011.0884	0.3021	0.8787	0.0263
655	2012.3891	0.2969	0.8792	0.0264
8338	2012.4945	0.2811	0.8778	0.0264
8384	2015.5338	0.3514	0.8796	0.0265
229	2017.9664	0.2705	0.881	0.0266
1484	2018.2094	0.2749	0.8799	0.0266
9285	2018.2238	0.313	0.8785	0.0266
13651	2019.7501	0.3135	0.8789	0.0266
5474	2025.1128	0.2974	0.8828	0.0268
5247	2025.559	0.2883	0.8818	0.0268
6901	2026.8682	0.3069	0.8817	0.0268
8162	2030.5408	0.293	0.8844	0.027
6507	2038.2249	0.2965	0.8906	0.0272
13478	2038.6729	0.2897	0.8896	0.0272
767	2039.4884	0.3141	0.8892	0.0272
5289	2039.5121	0.6261	0.8878	0.0272
4872	2042.471	0.3548	0.889	0.0273
11952	2044.4548	0.2801	0.8897	0.0274
4815	2046.5567	0.2783	0.8904	0.0275
4285	2047.4242	0.462	0.8901	0.0275
10705	2053.7466	0.3226	0.8954	0.0277
3674	2055.0503	0.3093	0.8953	0.0277
5674	2056.6424	0.2805	0.8956	0.0278
3329	2058.9558	0.285	0.8969	0.0279
12755	2059.377	0.2972	0.8958	0.0279
7954	2060.2661	0.2831	0.8954	0.0279
1060	2061.5747	0.3016	0.8954	0.028
7745	2061.8091	0.2788	0.8942	0.028
20314	2065.8383	0.3779	0.8969	0.0281
15508	2070.8162	0.2856	0.901	0.0283

10288	2070.8352	0.4775	0.8996	0.0283
2409	2073.0023	0.2834	0.9007	0.0283
3979	2073.1394	0.3825	0.8994	0.0284
14996	2073.4961	0.3109	0.8983	0.0284
5286	2074.6167	0.3406	0.8981	0.0284
15254	2075.951	0.3147	0.8982	0.0284
15102	2077.668	0.3594	0.8986	0.0285
18352	2078.097	0.3153	0.8976	0.0285
13251	2078.3137	0.3154	0.8965	0.0285
4296	2079.9515	0.3468	0.8972	0.0286
13955	2081.6816	0.2996	0.8977	0.0287
10758	2081.6983	0.3435	0.8963	0.0287
7022	2086.2352	0.3363	0.8997	0.0288
11333	2088.535	0.2968	0.9007	0.0289
18530	2089.073	0.2998	0.8999	0.0289
15273	2092.1248	0.2992	0.9016	0.029
19290	2092.3897	0.2991	0.9004	0.029
8526	2096.381	0.2868	0.9028	0.0291
2715	2097.7487	0.8222	0.903	0.0292
8038	2098.4749	0.3265	0.9022	0.0292
17774	2099.2614	0.2858	0.9018	0.0292
3293	2099.2987	0.3226	0.9005	0.0292
3712	2099.5028	0.3624	0.8994	0.0292
1085	2099.973	0.3514	0.8985	0.0292
6654	2100.5094	0.321	0.8976	0.0293
16257	2100.9902	0.3613	0.8969	0.0293
15139	2102.5792	0.3312	0.8969	0.0293
2528	2103.8942	0.3384	0.8971	0.0294
4745	2106.1572	0.3964	0.8981	0.0295
8588	2107.0994	0.3001	0.8975	0.0295
19185	2108.4181	0.2918	0.8975	0.0295
6249	2115.111	0.3176	0.9028	0.0297
20032	2118.2728	0.3442	0.9045	0.0298
18937	2119.1142	0.3079	0.9039	0.0299

16981	2122.7679	0.2978	0.9063	0.03
17594	2124.2085	0.3147	0.9063	0.03
6831	2126.1226	0.3095	0.9069	0.0301
12494	2126.1816	0.3414	0.9056	0.0301
8672	2126.925	0.5528	0.9051	0.0301
3521	2127.2838	0.3413	0.9041	0.0301
15244	2127.3401	0.3072	0.9028	0.0301
18477	2128.3193	0.3015	0.9024	0.0302
5711	2131.4853	0.5294	0.9039	0.0303
5003	2132.3152	0.6198	0.9033	0.0303
3976	2132.7857	0.2956	0.9025	0.0303
20286	2135.1598	0.2871	0.9035	0.0304
14305	2137.2082	0.3767	0.9044	0.0305
17554	2137.7237	0.3997	0.9037	0.0305
1125	2138.4014	0.3417	0.9033	0.0305
5951	2138.8328	0.2859	0.9024	0.0305
3684	2140.7876	0.3197	0.9035	0.0306
11391	2141.8359	0.326	0.9034	0.0306
9016	2145.0742	0.3371	0.9054	0.0308
20406	2145.2301	0.3112	0.9042	0.0308
15094	2146.1406	0.3277	0.9037	0.0308
4418	2147.3442	0.3001	0.9037	0.0308
7329	2147.7091	0.3108	0.9027	0.0308
16165	2149.1291	0.3084	0.9028	0.0309
11154	2152.6112	0.357	0.9049	0.031
3023	2158.4966	0.3143	0.9094	0.0312
267	2158.7116	0.3146	0.9083	0.0312
4702	2159.1133	0.291	0.9075	0.0312
12431	2162.6811	0.4013	0.9097	0.0313
3640	2163.7482	0.2944	0.9094	0.0314
15133	2163.9514	0.2959	0.9083	0.0314
3899	2166.0225	0.3694	0.9092	0.0315
12405	2170.8694	0.3359	0.9126	0.0316
629	2172.0814	0.3203	0.9124	0.0317

2987	2173.8678	0.3644	0.913	0.0317
11635	2176.532	0.3375	0.9144	0.0318
11968	2177.4328	0.2954	0.9141	0.0319
2552	2178.1096	0.5721	0.9135	0.0319
3402	2178.9005	0.3506	0.9132	0.0319
11739	2179.6509	0.2917	0.9127	0.0319
18111	2180.2928	0.3013	0.9119	0.032
5270	2181.2334	0.5292	0.9114	0.032
8249	2181.5638	0.2937	0.9105	0.032
2221	2182.1415	0.3016	0.9098	0.032
11354	2183.7281	0.2883	0.9101	0.0321
15382	2184.8062	0.3172	0.9101	0.0321
20364	2185.1965	0.3166	0.9092	0.0321
14179	2187.8095	0.2948	0.9105	0.0322
8861	2190.5225	0.2998	0.9119	0.0323
2697	2191.6423	0.5198	0.912	0.0324
8780	2192.3378	0.3084	0.9114	0.0324
8608	2192.8115	0.575	0.9105	0.0324
15270	2195.1041	0.6464	0.9116	0.0325
3256	2195.5974	0.3074	0.9109	0.0325
8385	2195.7907	0.4573	0.9099	0.0325
5463	2197.3379	0.3103	0.9102	0.0326
15618	2198.0573	0.4728	0.9097	0.0326
11706	2202.7109	0.3058	0.9128	0.0327
14561	2202.8584	0.3138	0.9117	0.0328
13522	2203.3011	0.297	0.9108	0.0328
17134	2205.4467	0.49	0.9117	0.0328
9221	2207.9215	0.308	0.9132	0.0329
3306	2209.9196	0.3084	0.9139	0.033
19830	2211.2458	0.3852	0.9139	0.0331
4104	2213.2718	0.3773	0.9147	0.0331
17553	2217.3192	0.3638	0.9174	0.0333
7072	2218.7266	0.3451	0.9173	0.0333
19902	2219.9855	0.3013	0.9175	0.0334

1833	2220.522	0.3072	0.9168	0.0334
15993	2222.0637	0.2941	0.9172	0.0334
14488	2224.1815	0.3347	0.918	0.0335
3556	2225.5859	0.3308	0.9182	0.0336
19349	2227.2436	0.3121	0.9186	0.0336
4278	2228.3692	0.8604	0.9185	0.0337
15289	2228.8484	0.377	0.9176	0.0337
10921	2229.5088	0.3461	0.9169	0.0337
11948	2229.7791	0.4569	0.9158	0.0337
4566	2230.3442	0.3531	0.9151	0.0337
16478	2230.5381	0.3321	0.9141	0.0337
15556	2230.8383	0.3411	0.9132	0.0337
14144	2231.8224	0.3098	0.913	0.0338
3184	2232.5996	0.3099	0.9125	0.0338
13532	2232.7434	0.3448	0.9114	0.0338
17286	2233.4106	0.4375	0.9109	0.0338
5915	2235.5591	0.3769	0.9117	0.0339
4128	2236.7562	0.4475	0.9115	0.0339
1701	2237.2822	0.4545	0.911	0.034
12820	2238.3595	0.3127	0.9107	0.034
4637	2239.4096	0.3235	0.9102	0.034
12481	2239.5192	0.302	0.9092	0.034
17139	2239.534	0.4984	0.908	0.034
5866	2239.6858	0.3012	0.9069	0.034
3261	2240.6849	0.4731	0.9068	0.0341
2425	2241.4793	0.3162	0.9064	0.0341
19502	2243.1581	0.3349	0.9068	0.0342
10825	2246.0509	0.3002	0.9083	0.0343
18864	2250.4204	0.3111	0.9116	0.0344
8570	2253.253	0.4409	0.913	0.0345
17741	2253.4778	0.3112	0.9121	0.0345
3648	2253.9128	0.3537	0.9114	0.0346
14722	2254.8993	0.2979	0.9112	0.0346
10292	2255.2819	0.4919	0.9104	0.0346

9271	2257.0057	0.3239	0.9106	0.0347
4689	2260.1253	0.3289	0.9124	0.0348
10359	2261.2399	0.3378	0.9122	0.0348
4718	2262.1286	0.3017	0.9119	0.0349
2368	2263.3019	0.3297	0.912	0.0349
7299	2263.6605	0.3497	0.9113	0.0349
15252	2264.0212	0.3252	0.9105	0.0349
16216	2264.0755	0.547	0.9095	0.0349
6834	2265.7073	0.3423	0.9098	0.035
3173	2265.9938	0.3323	0.9088	0.035
7168	2266.1353	0.3433	0.9078	0.035
4495	2266.4325	0.3461	0.9071	0.035
5620	2267.4029	0.3252	0.9069	0.0351
10606	2275.1633	0.3274	0.9132	0.0353
12689	2278.8704	0.3084	0.9161	0.0355
14834	2278.9104	0.3131	0.9149	0.0355
9301	2279.3294	0.3305	0.9142	0.0355
16479	2280.1672	0.3402	0.9139	0.0356
2251	2280.5129	0.3124	0.913	0.0356
5896	2281.0025	0.3373	0.9124	0.0356
13501	2281.5596	0.343	0.9117	0.0356
18534	2282.0338	0.4427	0.911	0.0356
8555	2284.0701	0.5194	0.9118	0.0357
355	2284.0732	0.3166	0.9106	0.0357
8751	2286.6978	0.3166	0.9124	0.0358
10042	2292.7291	0.3924	0.9173	0.036
3848	2294.4322	0.473	0.9178	0.0361
16267	2294.8292	0.3812	0.9171	0.0361
4215	2295.1246	0.3299	0.9163	0.0361
12206	2295.7394	0.361	0.9158	0.0362
5765	2295.8664	0.3137	0.9148	0.0362
18311	2298.3671	0.5234	0.9159	0.0363
3410	2298.906	0.3514	0.9153	0.0363
19028	2300.4157	0.4711	0.9157	0.0363

20400	2302.4603	0.3973	0.9167	0.0364
6786	2307.7137	0.3093	0.9206	0.0366
9457	2308.5889	0.3452	0.9202	0.0367
10101	2309.6707	0.3112	0.9202	0.0367
16067	2310.2732	0.336	0.9195	0.0367
15788	2310.4887	0.3162	0.9187	0.0367
4918	2313.7324	0.4231	0.9205	0.0368
15629	2314.434	0.353	0.9201	0.0369
16210	2315.8082	0.3596	0.9201	0.0369
12103	2318.6432	0.34	0.9216	0.037
19479	2320.8339	0.3118	0.9223	0.0371
18874	2321.4103	0.3188	0.9218	0.0371
5782	2322.0699	0.3206	0.9213	0.0372
5373	2322.9139	0.3191	0.921	0.0372
12008	2323.0257	0.4675	0.92	0.0372
17205	2325.0337	0.3234	0.9208	0.0373
17465	2326.9874	0.3118	0.9216	0.0373
11387	2327.4576	0.3516	0.9209	0.0374
3171	2328.53	0.3621	0.9209	0.0374
15533	2334.3071	0.317	0.9251	0.0376
7138	2336.9332	0.4132	0.9264	0.0377
13690	2340.5464	0.3974	0.929	0.0379
4654	2340.701	0.5988	0.928	0.0379
17531	2342.971	0.3172	0.9292	0.038
14893	2344.8402	0.3272	0.9297	0.038
13926	2347.7638	0.3929	0.9313	0.0381
17111	2348.474	0.3468	0.9308	0.0382
2760	2349.5656	0.4522	0.9307	0.0382
11137	2349.5704	0.3278	0.9296	0.0382
7274	2349.5835	0.3474	0.9285	0.0382
11413	2350.3138	0.3193	0.928	0.0382
12712	2352.1724	0.3638	0.9286	0.0383
399	2352.7847	0.3306	0.928	0.0383
4532	2354.3858	0.4044	0.9285	0.0384

10238	2358.3768	0.3164	0.9311	0.0385
14782	2361.4235	0.353	0.9328	0.0387
2060	2362.6099	0.3381	0.9328	0.0387
10100	2363.1119	0.3869	0.9322	0.0387
10826	2365.0063	0.3479	0.9332	0.0388
10686	2365.1809	0.3465	0.9323	0.0388
3127	2365.6394	0.3554	0.9317	0.0388
11394	2365.991	0.4122	0.9309	0.0389
1350	2366.9798	0.3215	0.9307	0.0389
5196	2367.3185	0.3926	0.9299	0.0389
2902	2370.6047	0.446	0.9318	0.039
17432	2371.6741	0.3158	0.9317	0.0391
13598	2372.3501	0.3475	0.9312	0.0391
7076	2376.722	0.5867	0.9344	0.0393
7116	2377.1061	0.4028	0.9336	0.0393
658	2379.2561	0.3416	0.9347	0.0394
10071	2383.3668	0.3341	0.9377	0.0396
19126	2385.233	0.3619	0.9385	0.0396
1595	2386.3751	0.381	0.9385	0.0397
7421	2387.4457	0.3445	0.9386	0.0397
4720	2388.3734	0.3207	0.9383	0.0398
14726	2389.9037	0.401	0.9386	0.0398
14673	2390.0047	0.4661	0.9376	0.0398
11591	2390.8329	0.3823	0.9373	0.0399
15338	2391.4499	0.3483	0.9368	0.0399
9692	2391.7706	0.5124	0.936	0.0399
4330	2392.3318	0.3464	0.9355	0.0399
3457	2392.8483	0.4946	0.935	0.0399
1506	2394.3673	0.3244	0.9353	0.04
15193	2395.4228	0.3199	0.9351	0.04
20277	2397.3084	0.3426	0.9357	0.0401
11256	2402.2709	0.551	0.9395	0.0403
11135	2402.7538	0.3402	0.9388	0.0403
16945	2403.4805	0.4236	0.9383	0.0404

4556	2407.9439	0.4284	0.9417	0.0405
14327	2408.3108	0.3261	0.9409	0.0406
17574	2409.6861	0.3162	0.9411	0.0406
19687	2413.9911	0.3617	0.9439	0.0408
7585	2414.8604	0.4086	0.9436	0.0408
15116	2416.1292	0.3216	0.9435	0.0409
17711	2416.552	0.314	0.9428	0.0409
2448	2417.1851	0.4173	0.9424	0.0409
18608	2417.6065	0.4173	0.9418	0.0409
12288	2418.1583	0.3712	0.9412	0.0409
6867	2419.5984	0.3252	0.9415	0.041
19859	2420.0741	0.3329	0.9408	0.041
8574	2420.444	0.3938	0.9402	0.041
7395	2422.564	0.3288	0.9415	0.0411
3123	2425.2504	0.328	0.9429	0.0412
13337	2427.8395	0.401	0.9444	0.0414
14395	2427.948	0.3617	0.9435	0.0414
10980	2428.9894	0.3718	0.9433	0.0414
13702	2429.5586	0.3263	0.9427	0.0414
4429	2433.2773	0.3457	0.9451	0.0416
3909	2434.1355	0.33	0.9447	0.0416
8742	2435.1166	0.4141	0.9447	0.0416
4286	2438.5568	0.3304	0.9466	0.0418
17180	2439.8708	0.6494	0.9466	0.0418
4898	2442.8723	0.6341	0.9483	0.0419
2326	2443.293	0.3332	0.9476	0.042
18654	2443.6174	0.331	0.9469	0.042
17377	2443.7415	0.3268	0.9459	0.042
9534	2447.4992	0.3525	0.9486	0.0421
13378	2448.0943	0.4436	0.9482	0.0422
17585	2448.3252	0.4772	0.9473	0.0422
18332	2448.7563	0.3809	0.9467	0.0422
14077	2451.2498	0.3627	0.9479	0.0423
9397	2451.7567	0.3332	0.9475	0.0423

18052	2452.4716	0.6068	0.9471	0.0424
3974	2453.5912	0.4536	0.9472	0.0424
5484	2453.735	0.3494	0.9463	0.0424
13853	2456.6319	0.5449	0.948	0.0425
16649	2458.8707	0.3482	0.9491	0.0426
15938	2459.3094	0.3501	0.9484	0.0426
13772	2459.9397	0.3824	0.948	0.0427
11027	2460.118	0.3253	0.9471	0.0427
15019	2461.5308	0.3862	0.9475	0.0427
10127	2461.5834	0.3246	0.9466	0.0427
6883	2462.313	0.9941	0.9462	0.0428
18115	2462.4853	0.339	0.9454	0.0428
951	2463.5512	0.3433	0.9454	0.0428
8748	2464.0515	0.401	0.9448	0.0429
10885	2464.1345	0.3244	0.9439	0.0429
16555	2464.5568	0.5617	0.9432	0.0429
10232	2466.9611	0.3322	0.9444	0.043
3516	2470.8045	0.3676	0.9465	0.0431
16473	2470.8862	0.3238	0.9455	0.0431
17659	2471.4923	0.4019	0.9451	0.0431
18528	2471.7377	0.3482	0.9442	0.0431
20002	2472.9775	0.3329	0.9442	0.0432
16222	2474.1855	0.3295	0.9442	0.0432
5626	2476.4322	0.3926	0.9451	0.0433
5651	2477.1969	0.4747	0.945	0.0434
16061	2477.9867	0.4512	0.9447	0.0434
3732	2478.4745	0.3495	0.9441	0.0434
14439	2480.4372	0.3497	0.9452	0.0435
20299	2482.1654	0.3756	0.9459	0.0436
18431	2482.653	0.3217	0.9452	0.0436
15870	2483.4241	0.4708	0.9449	0.0436
2836	2483.9974	0.4551	0.9444	0.0437
10002	2485.1017	0.3984	0.9444	0.0437
8415	2485.158	0.3287	0.9435	0.0437

14723	2485.4761	0.6564	0.9428	0.0437
19400	2487.3939	0.4051	0.9435	0.0438
8791	2488.5599	0.3753	0.9436	0.0439
13887	2488.9026	0.3509	0.9429	0.0439
18421	2491.4074	0.5338	0.9443	0.044
10023	2491.6085	0.3519	0.9435	0.044
17323	2493.4984	0.4714	0.9442	0.0441
13502	2493.5149	0.5852	0.9432	0.0441
18294	2494.4245	0.4106	0.943	0.0441
9188	2494.8592	0.8504	0.9423	0.0441
8910	2495.1903	0.3437	0.9416	0.0441
16018	2495.6343	0.3617	0.941	0.0442
11745	2496.1636	0.3435	0.9405	0.0442
18345	2498.6932	0.3262	0.9418	0.0443
5316	2499.2323	0.3471	0.9413	0.0443
17542	2501.8521	0.4956	0.9427	0.0444
18920	2502.0163	0.3286	0.9419	0.0444
11107	2502.3504	0.3331	0.9413	0.0444
15059	2502.4895	0.3493	0.9405	0.0444
18544	2503.6365	0.4655	0.9405	0.0445
14794	2504.051	0.4366	0.9399	0.0445
12228	2504.2837	0.4297	0.9391	0.0445
5816	2504.6206	0.3927	0.9383	0.0445
1420	2507.6385	0.643	0.9398	0.0446
3772	2508.064	0.4942	0.9392	0.0447
18641	2510.4893	0.3636	0.9402	0.0448
19702	2512.3727	0.3828	0.9411	0.0448
13272	2512.8644	0.4246	0.9406	0.0449
19917	2513.4033	0.4694	0.9402	0.0449
11299	2515.1816	0.3431	0.9408	0.045
16355	2515.4801	0.3511	0.9401	0.045
3494	2516.7254	0.4257	0.9401	0.045
16865	2517.6154	0.3417	0.9399	0.0451
4065	2517.7974	0.4385	0.9391	0.0451

12841	2517.8247	0.3507	0.9382	0.0451
5034	2518.5293	0.4166	0.9379	0.0451
1992	2520.2544	0.3555	0.9385	0.0452
4351	2520.6761	0.4033	0.9378	0.0452
8659	2521.0661	0.4565	0.9372	0.0452
14374	2522.9002	0.5544	0.938	0.0453
1682	2523.5221	2.2586	0.9376	0.0453
13285	2525.0157	0.4926	0.9381	0.0454
6672	2525.3478	0.3454	0.9374	0.0454
3707	2525.4475	0.3969	0.9367	0.0454
12045	2526.9782	0.5574	0.9371	0.0455
17776	2526.9896	0.3279	0.9362	0.0455
2427	2527.606	0.4043	0.9357	0.0455
15506	2528.4322	0.4314	0.9356	0.0455
18518	2531.1224	0.3399	0.937	0.0457
15916	2537.0431	0.3825	0.9409	0.0459
6325	2538.9601	0.3813	0.9414	0.046
13761	2541.7541	0.3667	0.943	0.0461
19166	2544.0733	0.4034	0.9443	0.0462
2212	2544.8649	0.3704	0.9441	0.0462
14490	2545.5311	0.3368	0.9437	0.0463
2582	2546.6045	0.3562	0.9437	0.0463
10771	2547.4257	0.5575	0.9434	0.0463
18917	2547.6001	0.5687	0.9426	0.0463
3866	2547.9239	0.6391	0.9419	0.0464
17707	2548.3618	0.4045	0.9414	0.0464
13889	2551.6685	0.3479	0.943	0.0465
4132	2552.0333	0.3324	0.9422	0.0465
18570	2552.8813	0.702	0.9421	0.0466
17676	2554.2118	0.4225	0.9423	0.0466
4461	2555.1908	0.326	0.9422	0.0467
3471	2556.8949	0.3609	0.9427	0.0467
7934	2557.0029	0.3691	0.9418	0.0467
7603	2557.064	0.3361	0.9409	0.0467

2823	2558.0901	0.5757	0.9407	0.0468
1199	2558.6431	0.3649	0.9403	0.0468
15329	2559.0873	0.3576	0.9397	0.0468
6447	2559.4598	0.36	0.939	0.0468
10334	2561.207	0.4212	0.9396	0.0469
19775	2563.6544	0.3411	0.9407	0.047
15253	2564.2205	0.3375	0.9402	0.047
14579	2564.3222	0.3425	0.9393	0.047
3083	2566.5932	0.3833	0.9405	0.0471
14870	2567.3109	0.3569	0.9402	0.0471
3898	2567.5529	0.3664	0.9394	0.0472
4027	2569.724	0.3426	0.9406	0.0473
17989	2571.7845	0.3515	0.9417	0.0474
17618	2573.3784	0.3819	0.9421	0.0474
3695	2575.9952	0.388	0.9436	0.0476
9202	2576.2545	0.3353	0.943	0.0476
20136	2577.2575	0.3502	0.9428	0.0476
17282	2577.6405	0.3577	0.9423	0.0476
4188	2578.3253	0.3584	0.942	0.0477
8649	2578.8978	0.3458	0.9415	0.0477
9228	2578.9885	0.344	0.9407	0.0477
122	2579.4514	0.3531	0.9402	0.0477
19653	2579.7038	0.401	0.9395	0.0477
19100	2582.6393	0.3842	0.9411	0.0478
8568	2583.012	0.3379	0.9405	0.0479
4444	2584.609	0.4528	0.9409	0.0479
17404	2584.6171	0.3942	0.94	0.0479
8293	2586.9315	0.3894	0.9409	0.048
4023	2590.5165	0.3446	0.943	0.0482
3098	2591.9928	0.3517	0.9433	0.0482
51	2592.1093	0.429	0.9425	0.0482
20177	2592.9233	0.7358	0.9422	0.0483
11056	2594.2164	0.3468	0.9425	0.0483
15865	2596.4817	0.4138	0.9436	0.0484

11004	2596.5014	0.4724	0.9427	0.0484
10868	2597.9575	0.3453	0.9431	0.0485
3573	2598.4262	0.4915	0.9425	0.0485
4400	2598.4715	0.3455	0.9416	0.0485
7366	2598.5878	0.3496	0.9409	0.0485
17877	2598.7614	0.3873	0.9401	0.0485
15167	2599.5098	0.3419	0.9396	0.0485
16531	2600.3486	0.4241	0.9395	0.0486
10725	2600.5116	0.3633	0.9387	0.0486
6478	2600.8527	0.3474	0.9381	0.0486
7890	2602.9717	0.7398	0.939	0.0487
5527	2605.3285	0.3684	0.9402	0.0488
10389	2606.2623	0.3787	0.9402	0.0488
15204	2607.5091	0.5205	0.9401	0.0489
10058	2609.0487	0.3586	0.9405	0.049
4674	2615.6608	0.3647	0.9449	0.0492
16308	2618.5415	0.3473	0.9463	0.0494
12808	2619.8144	0.349	0.9463	0.0494
19005	2620.5497	0.4333	0.946	0.0494
17315	2620.6648	0.4375	0.9453	0.0494
15315	2621.2253	0.3981	0.9449	0.0495
19990	2621.4125	0.3734	0.9441	0.0495
3804	2625.1182	0.3709	0.9465	0.0496
5994	2626.3383	0.3761	0.9467	0.0497
7640	2629.233	0.4373	0.9482	0.0498
17917	2630.5371	0.5176	0.9483	0.0499
14580	2632.1399	0.3363	0.949	0.05

RMA normalized - Tb up regulated genes

Gene symbol	Description	Probe set	Geometric mean of inte	Parametric p-value
Lum	lumican	1423607_at	5	5.70E-06
Kif5b	kinesin family	1418429_at	3.3	1.55E-05
2310047C04R	RIKEN cDNA 2	1454878_at	2.5	2.58E-05
Ptprd	protein tyrosin	1429052_at	3.3	2.98E-05
Kif18a	kinesin family	1424107_at	3.3	3.09E-05
Mlstd2	male sterility c	1426371_at	2.5	3.29E-05
Tnfsf11	tumor necrosi	1419083_at	3.3	3.45E-05
Igfbp5	insulin-like grc	1452114_s_at	5	3.50E-05
Apeg1	aortic preferer	1448664_a_at	3.3	3.85E-05
D9Wsu20e	DNA segment,	1416447_at	2.5	4.30E-05
Prg4	proteoglycan c	1449824_at	2.5	4.50E-05
Lox	lysyl oxidase	1416121_at	3.3	4.50E-05
Etoh1	ethanol induce	1429712_at	2.5	4.81E-05
Rif1	Rap1 interacti	1429491_s_at	2.5	5.27E-05
B630005N14R	RIKEN cDNA B	1434352_at	2.5	5.66E-05
Ibsp	integrin bindin	1417485_at	10	6.12E-05
0610016J10Ri	RIKEN cDNA 0	1420339_at	2.5	7.34E-05
Kif5b	kinesin family	1418428_at	2.5	7.67E-05
Sybl1	synaptobrevin	1452007_at	2.5	7.78E-05
2810021G02R	RIKEN cDNA 2	1427349_x_at	2.5	7.89E-05
Wif1	Wnt inhibitory	1425425_a_at	5	7.98E-05
Ibsp	integrin bindin	1417484_at	47.6	8.92E-05
Ptprd	Protein tyrosin	1435537_at	2	8.99E-05
Sp3	trans-acting tr	1431804_a_at	2.5	9.04E-05
4930503L19Ri	RIKEN cDNA 4	1454701_at	2	9.49E-05
Ube1c	ubiquitin-activ	1435164_s_at	2.5	9.67E-05
6330411E07Ri	RIKEN cDNA 6	1453783_at	2.5	9.97E-05
Fusip1	FUS interactin	1423982_at	2.5	0.0001071
D830012I24Ri	RIKEN cDNA C	1435822_at	2.5	0.0001113
Cxadr	coxsackievirus	1453282_at	2.5	0.0001124
Cxcl7	chemokine (C-	1418480_at	2	0.0001132

Suz12	suppressor of	1427253_s_at	2	0.0001164
		1429490_at	2.5	0.0001213
Nol8	nucleolar prot	1452974_at	2	0.0001232
Rg9mtd1	RNA (guanine-	1424333_at	2.5	0.0001263
Hells	helicase, lymp	1417541_at	2.5	0.000128
Ssb	Sjogren syndr	1416422_a_at	2	0.00013
Ube3a	ubiquitin prote	1416682_at	2.5	0.0001306
6230416J20Ri	RIKEN cDNA 6	1455488_at	2.5	0.0001322
Col4a3bp	procollagen, t	1420384_at	2.5	0.0001323
Fcho2	FCH domain o	1437200_at	2.5	0.0001344
9630042H07R	RIKEN cDNA 9	1427985_at	2.5	0.0001383
		1433600_at	2.5	0.0001423
		1421534_at	2	0.0001425
Zfp148	zinc finger pro	1418381_at	2	0.0001445
2610207F23Ri	RIKEN cDNA 2	1455608_at	2	0.0001479
1110020G09R	RIKEN cDNA 1	1437287_at	2	0.000148
AW011752	expressed seq	1423198_a_at	2	0.0001492
Rif1	Rap1 interacti	1437179_at	2.5	0.0001496
Smc6l1	SMC6 structur	1422910_s_at	2	0.0001533
Zbtb11	Zinc finger an	1454826_at	2	0.0001541
AI315324	expressed seq	1455083_at	3.3	0.0001541
Gt(ROSA)26Sc	gene trap ROS	1452239_at	2.5	0.0001569
Zfp53	zinc finger pro	1449414_at	2.5	0.0001611
Wdr9	WD repeat dor	1427322_at	2	0.0001615
A830080D01R	RIKEN cDNA A	1434910_at	2	0.0001657
Zdhhc20	zinc finger, DH	1434236_at	2	0.0001658
Nr1d2	nuclear recept	1416958_at	2.5	0.0001682
Smoc2	SPARC related	1415935_at	2	0.0001687
Kif5b	kinesin family	1418431_at	2	0.0001689
Fmr1	fragile X ment	1423369_at	2	0.0001737
6030408C04R	RIKEN cDNA 6	1434700_at	2	0.0001742
Usp45	ubiquitin speci	1427990_at	2.5	0.0001753
Pik3ca	phosphatidylin	1429435_x_at	2	0.0001757
Mak3	Mak3 homolog	1428410_at	2.5	0.0001794

Ogn	osteoglycin	1419663_at	2	0.0001871
Pdcl	phosducin-like	1425149_a_at	2	0.0001884
A730024A03R	RIKEN cDNA A	1449668_s_at	2	0.0001889
Fnbp3	formin binding	1420916_at	2	0.0001925
2610101J03Ri	RIKEN cDNA 2	1453727_at	2.5	0.0001936
Mlstd2	male sterility c	1453550_a_at	2	0.0001946
BC049807	cDNA sequenc	1437696_at	2.5	0.000197
C330027C09R	RIKEN cDNA C	1449699_s_at	2.5	0.0001973
Smc4l1	SMC4 structur	1427275_at	2	0.0001978
Tmed7	transmembrar	1419917_s_at	2	0.0001985
Ktn1	kinectin 1	1455434_a_at	2	0.0002003
Arf6	ADP-ribosylati	1418824_at	2.5	0.0002026
Tmed5	transmembrar	1431789_s_at	2	0.0002052
Pura	Purine rich ele	1456898_at	2.5	0.0002072
0610041E09Ri	RIKEN cDNA 0	1423208_at	2	0.0002085
Slc12a2	solute carrier 1	1448780_at	2	0.00021
Eif1a	eukaryotic tra	1424343_a_at	2	0.0002109
2810407C02R	RIKEN cDNA 2	1453726_s_at	2	0.000211
2410042D21R	RIKEN cDNA 2	1426495_at	2	0.0002112
Trpm7	transient rece	1416799_at	2.5	0.0002118
Gm542	gene model 5'	1434513_at	2	0.0002125
Atp6v0d2	ATPase, H+ tr	1444176_at	3.3	0.0002139
Nxt2	nuclear transp	1456599_at	2.5	0.0002177
Psip1	PC4 and SFRS	1417166_at	2	0.0002178
BC016423	CDNA sequenc	1418772_at	2.5	0.0002182
2510006C20R	RIKEN cDNA 2	1419074_at	2	0.0002215
Mcpt1	mast cell prot	1422352_at	2	0.0002232
C79407	expressed seq	1458374_at	2	0.0002233
Rnf138	ring finger pro	1454064_a_at	2	0.0002248
4933421E11Ri	RIKEN cDNA 4	1428162_at	2	0.0002251
Mbni2	muscleblind-lil	1433754_at	2	0.0002254
Vbp1	von Hippel-Lin	1421750_a_at	2.5	0.0002262
Chm	choroidermia	1439824_at	2	0.0002287
Cenpe	centromere pr	1439040_at	2.5	0.0002302

Strn3	striatin, calmo	1423535_at	2	0.0002305
AA407452	EST AA407452	1456790_at	2.5	0.0002317
Fxr1h	fragile X ment	1452247_at	2	0.0002333
Eea1	Early endosom	1438045_at	2	0.0002365
Shcbp1	Shc SH2-dom	1416299_at	2	0.0002373
	Transcribed lo	1438695_at	2	0.0002388
Ipo7	importin 7	1454955_at	2	0.0002394
Sh3bgrl	SH3-binding d	1428107_at	2.5	0.0002424
Narg3	NMDA recepto	1434860_at	2	0.0002458
Rock1	Rho-associat	1423445_at	3.3	0.000246
BC020077	cDNA sequenc	1451349_at	2	0.0002475
Zdhhc21	zinc finger, DH	1429488_at	2	0.0002505
Plaa	phospholipase	1435001_at	2	0.0002515
Thoc1	THO complex	1424641_a_at	2	0.0002528
Narg1	NMDA recepto	1418024_at	2	0.0002538
Tes3-ps	testis derived	1455054_a_at	2	0.000254
5830426I05Ri	RIKEN cDNA 5	1417926_at	2	0.0002578
		1455096_at	2	0.0002604
Plk4	polo-like kinas	1426580_at	2	0.0002634
Pik3ca	phosphatidylin	1429434_at	2.5	0.000269
A030012M09R	RIKEN cDNA A	1435634_at	2	0.0002696
Asx12	Additional sex	1460597_at	2	0.0002716
MGI:2675296	HCF-binding tr	1452857_at	2.5	0.0002733
Plk4	polo-like kinas	1419838_s_at	2	0.0002757
Cd2ap	CD2-associate	1420908_at	3.3	0.0002779
		1417861_at	2	0.000279
		1434284_at	2	0.0002806
D330037H05R	RIKEN cDNA D	1439010_at	2	0.0002812
Rnpc3	RNA-binding r	1437461_s_at	2	0.0002829
5730507H05R	RIKEN cDNA 5	1429171_a_at	2	0.0002835
Zfp51	zinc finger pro	1424706_at	2	0.0002838
Mbnl3	muscleblind-lil	1442549_at	2	0.0002878
Stk3	serine/threoni	1418512_at	2	0.0002896
Gabpa	GA repeat bin	1450664_at	2	0.0002924

Hrpt2	hyperparathyr	1443986_at	2	0.000293
Smc5l1	SMC5 structur	1426270_at	2	0.0002945
		1419905_s_at	2.5	0.0002983
1110030H10R	RIKEN cDNA 1	1460335_at	2.5	0.0002987
B230337E12R	RIKEN cDNA B	1434671_at	2.5	0.0002993
Zfp367	zinc finger pro	1433623_at	2	0.0003002
Lin7c	lin 7 homolog	1450937_at	2	0.0003022
Ell2	elongation fac	1450744_at	2	0.0003024
Ube2v2	ubiquitin-conj	1417983_a_at	2.5	0.0003059
Zfp644	zinc finger pro	1419984_s_at	2.5	0.0003104
Sfrs7	splicing factor,	1424033_at	2	0.0003118
Lin7c	lin 7 homolog	1423322_at	2	0.0003122
Scin	scinderin	1450276_a_at	2	0.0003176
Ssb	Sjogren syndr	1416421_a_at	2.5	0.0003236
1700009P03Ri	RIKEN cDNA 1	1426419_at	2	0.000324
Eif5	eukaryotic tra	1454663_at	2	0.0003252
D330037H05R	RIKEN cDNA C	1455102_at	2	0.0003256
Abce1	ATP-binding c	1416015_s_at	2	0.0003273
Tfpi	tissue factor p	1451791_at	2	0.0003275
Nsbp1	nucleosome bi	1418152_at	2.5	0.0003275
		1433978_at	2	0.0003279
6330403M23R	RIKEN cDNA 6	1455538_at	2.5	0.000328
BC004690	cDNA sequenc	1425642_at	2	0.0003286
		1417770_s_at	2.5	0.00033
Gnpda2	glucosamine-6	1426524_at	2	0.0003331
4632419I22Ri	RIKEN cDNA 4	1436247_at	2	0.0003333
4931428D14R	RIKEN cDNA 4	1451442_at	2	0.0003364
Suz12	suppressor of	1452364_at	2	0.0003365
Rpgr	retinitis pigme	1427467_a_at	2	0.0003415
Prrx1	paired related	1425528_at	2	0.0003421
		1450938_at	2	0.0003427
Matr3	matrin 3	1450874_at	2.5	0.0003446
Mak3	Mak3 homolog	1428409_at	2	0.0003537
		1434618_at	2	0.0003549

	1417769_at	2.5	0.0003556
Sdccag1	serologically d 1429327_at	2	0.000356
Cdc27	cell division cy 1433848_at	2.5	0.0003568
Nol5	nucleolar prot 1450986_at	2	0.0003568
2410129H14R	RIKEN cDNA 2 1434663_at	2	0.0003608
Tloc1	translocation p 1455698_at	2.5	0.000362
Socs6	suppressor of 1435492_at	2.5	0.0003625
1200009K13R	RIKEN cDNA 1 1418563_at	2	0.0003628
Prei3	preimplantatio 1423167_at	2	0.0003687
2600011C06R	RIKEN cDNA 2 1428907_at	2	0.0003698
Mmp9	matrix metallo 1416298_at	2	0.0003717
Ifi202b	interferon acti 1421551_s_at	2.5	0.0003725
MGI:2443930	Mblk1-related 1443779_s_at	2.5	0.0003749
Bmi1	B lymphoma M 1448733_at	2.5	0.0003771
	1437039_at	2	0.0003799
Cwf19l2	CWF19-like 2, 1456019_at	2.5	0.0003815
5730406M06R	RIKEN cDNA 5 1437041_at	2	0.0003825
2610030H06R	RIKEN cDNA 2 1434232_a_at	2	0.000383
Tes3-ps ///	Testis derived 1452079_s_at	2.5	0.0003833
1500005K14R	RIKEN cDNA 1 1429764_at	0.6	0.0003868
2610030H06R	RIKEN cDNA 2 1434233_at	2	0.0003903
Zfp265	zinc finger pro 1454652_at	2	0.0003907
1200009K13R	RIKEN cDNA 1 1418565_at	2	0.0003923
2700089E24R	RIKEN cDNA 2 1453208_at	1.7	0.0003923
Cpsf6	cleavage and p 1428234_at	2	0.0003934
5730601F06R	RIKEN cDNA 5 1434084_at	1.7	0.0003958
1110001C20R	RIKEN cDNA 1 1437288_at	2	0.000397
Aebp2	AE binding prc 1437743_at	2	0.000398
Herc5	Hect domain a 1438037_at	2	0.0004027
Tyki	thymidylate ki 1450484_a_at	2	0.0004065
AI461788	expressed seq 1435181_at	2	0.0004066
Rap1a	RAS-related p 1424139_at	2	0.0004092
Ghr	growth hormo 1417962_s_at	1.7	0.0004101
	1450113_at	2	0.0004113

Matr3	matrin 3	1434888_a_at	2	0.0004162
Ube3a	Ubiquitin prote	1437354_at	2.5	0.0004174
Hrb2	HIV-1 Rev bin	1452658_at	2	0.0004185
	Transcribed loc	1455817_x_at	2.5	0.0004188
Sdccag1	serologically d	1429446_at	2	0.0004206
Rsb1	rosbin, round	1435174_at	1.7	0.000422
Mpp5	membrane prc	1421064_at	1.7	0.0004231
Zic5	Zinc finger prc	1456219_at	2	0.0004233
Depdc1a	DEP domain c	1424292_at	2.5	0.0004269
Smarca5	SWI/SNF relat	1424207_at	2	0.0004288
Pkn2	protein kinase	1437295_at	2	0.0004329
Fxr1h	fragile X ment	1442059_at	2	0.0004346
		1437950_at	1.7	0.0004361
1700013G20R	RIKEN cDNA 1	1452972_at	1.7	0.000446
Socs4	suppressor of	1455142_at	2.5	0.0004512
Abce1	ATP-binding c	1416014_at	1.7	0.0004513
3526402H21R	RIKEN cDNA 3	1428755_at	2	0.0004571
Tax1bp1	Tax1 (human	1420174_s_at	2	0.0004619
5730469D23R	RIKEN cDNA 5	1428945_at	1.7	0.0004623
B230219D22R	RIKEN cDNA B	1424005_at	2	0.0004628
Vcpip1	valosin contair	1456607_at	2	0.0004628
Ppp1r12a	protein phospl	1437735_at	1.7	0.0004673
AI316828	expressed seq	1456398_at	2	0.0004679
Suv39h2	suppressor of	1422979_at	2.5	0.0004696
Kif11	kinesin family	1452315_at	1.7	0.0004724
Yme1l1	YME1-like 1 (S	1450954_at	2	0.0004764
Zfp238	zinc finger pro	1417010_at	2	0.0004768
Ube1c	ubiquitin-activ	1417202_s_at	2.5	0.0004771
Col5a2	procollagen, t	1450625_at	2.5	0.0004773
6030408C04R	RIKEN cDNA 6	1455355_at	1.7	0.0004829
9130217G22R	RIKEN cDNA 9	1442033_at	0.5	0.0004862
BC030336	cDNA sequenc	1434075_at	2	0.0004864
		1435333_at	2	0.0004866
Cav2	caveolin 2	1417327_at	2	0.0004871

Zdhhc20	zinc finger, DH1451437_at	1.7	0.0004891
Cd2ap	CD2-associate 1420906_at	2	0.0004916
Mmp9	matrix metallo 1448291_at	2	0.0004925
	1427334_s_at	2	0.0004934
Yme1l1	YME1-like 1 (S1423361_at	2.5	0.0005011
Tia1	cytotoxic gran 1416814_at	2	0.0005016
Bub1	budding unin 1424046_at	2	0.0005076
Rnpc2	RNA-binding r 1426671_a_at	2	0.0005086
C1galt1c1	C1GALT1-spec 1416655_at	2	0.000509
Eif2s2	eukaryotic tra 1456617_a_at	2	0.0005098
	Transcribed lo 1458820_at	2	0.00051
Arhgap5	Rho GTPase ac 1450897_at	2.5	0.0005111
Ranbp2	RAN binding p 1422621_at	2	0.0005127
Jmjd1c	jumonji domai 1426900_at	1.7	0.0005184
D3Erttd300e	DNA segment, 1435905_at	2	0.000519
Hdac2	histone deacet 1449080_at	1.7	0.0005208
4732486I23Ri	RIKEN cDNA 4 1427151_at	2	0.0005222
Lin9	lin-9 homolog 1428639_at	1.7	0.0005222
5730427N09R	RIKEN cDNA 5 1423131_at	2	0.0005239
Gmfb	glia maturatio 1417069_a_at	1.7	0.0005249
1700029F09Ri	RIKEN cDNA 1 1428593_at	2	0.0005269
Ccnc	Cyclin C 1428570_at	2	0.0005296
Tm7sf4	transmembrar 1431970_at	2.5	0.0005306
1810013L24Ri	RIKEN cDNA 1 1434613_at	2	0.000541
Casp8ap2	caspase 8 ass 1449217_at	2	0.0005453
	Transcribed lo 1436413_at	2	0.0005462
Ythdf3	YTH domain fa 1426840_at	2.5	0.0005542
Fkbp3	FK506 binding 1416858_a_at	2.5	0.0005562
Trpm7	transient rece 1416800_at	2	0.000557
Rbm27	RNA binding r 1456058_at	2	0.000558
Cdc27	cell division cy 1454739_at	1.7	0.0005597
Nol8	nucleolar prot 1428950_s_at	2	0.0005644
Sgol2	shugoshin-like 1437370_at	2	0.0005655
Zfp292	zinc finger pro 1419574_at	1.7	0.0005664

Car2	carbonic anhydrase 2	1448752_at	3.3	0.0005673
Zfp386	zinc finger protein 386	1421139_a_at	2	0.00057
Kitl	kit ligand	1448117_at	2	0.0005704
Styx	phosphoserine phosphatase	1429710_at	2	0.0005721
Tbc1d12	TBC1D12	1435675_at	2	0.0005742
2310002J21Ri	RIKEN cDNA 2310002J21Ri	1452883_a_at	2	0.0005755
Xpo1	exportin 1, CR	1418442_at	1.7	0.0005776
BC043476	cDNA sequence BC043476	1438349_at	2	0.000582
Fusip1	FUS interacting protein 1	1418527_a_at	1.7	0.0005822
Usp16	ubiquitin specific protease 16	1431951_a_at	1.7	0.0005827
1200009B18R	RIKEN cDNA 1200009B18R	1424462_at	2	0.0005858
Steap2	Six transmembrane protein 2	1438773_at	2.5	0.0005882
3110048L19Ri	RIKEN cDNA 3110048L19Ri	1455433_at	2.5	0.0005883
Npnt	nephronectin	1452106_at	2	0.0005887
Ect2	ect2 oncogene	1419513_a_at	2.5	0.0005933
D130060C09R	RIKEN cDNA D130060C09R	1433779_at	1.7	0.0005952
4631424J17Ri	RIKEN cDNA 4631424J17Ri	1453028_at	2.5	0.0005955
4930429M06R	RIKEN cDNA 4930429M06R	1429728_at	1.7	0.000598
Zfp281	zinc finger protein 281	1426377_at	1.7	0.0006016
Eif5	eukaryotic translation initiation factor 5	1433631_at	1.7	0.0006097
Haghl	hydroxyacylglutathione lyase	1429958_x_at	0.6	0.0006101
7-Mar	membrane-associated protein 7	1420609_at	2	0.0006129
		1434243_s_at	2	0.0006136
3100002L24Ri	RIKEN cDNA 3100002L24Ri	1426558_x_at	2	0.0006147
Luc7l2	LUC7-like 2 (S)	1437761_at	1.7	0.0006199
Rpe	ribulose-5-phosphate carboxylase	1416706_at	1.7	0.0006224
Bmi1	B lymphoma myeloma inhibitor 1	1417493_at	2	0.0006244
Kif11	kinesin family 11	1435306_a_at	1.7	0.0006256
2810455D13R	RIKEN cDNA 2810455D13R	1435947_at	2	0.0006279
Prss35	protease, serine 35	1434195_at	2	0.0006282
Orc4l	origin recognition complex 4-like 1	1453804_a_at	2	0.0006297
MGI:1927354	nuclear DNA binding protein	1448505_at	2	0.0006322
	0 day neonate	1437375_at	2	0.0006331
Sacs	sacsin	1434958_at	2	0.0006362

1200009K13R RIKEN cDNA 1 1440195_at	2	0.0006468
Tcte1l t-complex-ass 1449928_at	2.5	0.0006477
Tcea1 transcription e 1419257_at	1.7	0.0006525
Pvrl3 poliovirus rece 1448673_at	2	0.0006536
Pum2 pumilio 2 (Dro 1418017_at	2	0.0006563
Tcte1l t-complex-ass 1459854_s_at	2	0.0006565
Chek1 checkpoint kin 1450677_at	2.5	0.000659
Slc35a3 solute carrier 11429649_at	2	0.0006593
1200009B18R RIKEN cDNA 1 1453796_a_at	2	0.0006626
3230402J05Ri RIKEN cDNA 3 1454831_at	1.7	0.0006664
Zfpn1a5 zinc finger pro 1429431_at	1.7	0.0006674
Pdzk8 PDZ domain c 1435562_at	1.7	0.000668
Actr6 ARP6 actin-rel 1428502_at	1.7	0.0006686
Eif2s2 eukaryotic tra 1417712_at	1.7	0.00067
Snx16 sorting nexin 1438803_s_at	1.7	0.0006722
Stch stress 70 prot 1433772_at	1.7	0.0006754
5330414D10R RIKEN cDNA 5 1427075_s_at	1.7	0.00068
Bcap29 B-cell receptor 1417077_at	1.7	0.0006824
Hccs holocytochrom 1420890_at	1.7	0.0006864
Ccnh cyclin H 1418585_at	2	0.0006875
Narg1 NMDA recepto 1435139_at	1.7	0.0006897
Calmbp1 calmodulin bin 1422814_at	1.7	0.0006898
Acsl4 acyl-CoA synt 1433531_at	1.7	0.0006908
Slc6a2 solute carrier 11460129_at	0.5	0.0006947
Fusip1 FUS interactin 1449121_at	2	0.000696
Atad2 ATPase family, 1436174_at	1.7	0.0006968
Scoc short coiled-cc 1416267_at	2	0.0006973
Clk4 CDC like kinas 1427663_a_at	1.7	0.0006984
Mpp6 membrane prc 1449348_at	2	0.0006996
2700082D03R RIKEN cDNA 2 1453162_at	2	0.0006999
Lnp limb and neur 1453035_at	2	0.000702
4921533L14Ri RIKEN cDNA 4 1453122_at	1.7	0.0007054
Ppp1cb protein phosp 1426205_at	2	0.0007169
Pik3ca phosphatidylin 1453134_at	1.7	0.000723

Ptp4a1	protein tyrosin	1449322_at	1.7	0.0007238
Phf6	PHD finger prc	1454625_at	2	0.0007304
Zfp644	zinc finger pro	1429623_at	2.5	0.0007324
Tbc1d15	TBC1 domain	1416060_at	1.7	0.0007409
Cfl2	cofilin 2, musc	1418066_at	2	0.0007439
Oazin	ornithine deca	1450714_at	1.7	0.0007461
Rpe	ribulose-5-phc	1416705_at	2	0.0007466
		1429458_at	2	0.0007472
Mbtps2	membrane-bo	1436883_at	1.7	0.000751
Zbtb33	zinc finger anc	1434022_at	2	0.0007512
Smarca5	SWI/SNF relat	1424206_at	1.7	0.0007553
		1416118_at	2	0.0007567
Top2b	topoisomerase	1416731_at	1.7	0.0007656
Prrx1	paired related	1439774_at	2.5	0.000771
Fxr1h	fragile X ment	1417598_a_at	1.7	0.0007725
Cetn3	centrin 3	1417239_at	2	0.0007795
Itgb3bp	integrin beta	1456097_a_at	1.7	0.0007862
Col11a1	procollagen, t	1418599_at	5	0.0007928
1810012N18R	RIKEN cDNA 1	1427131_s_at	1.7	0.0007947
Ifi203	interferon acti	1448775_at	1.7	0.0007958
Trim23	tripartite moti	1456089_at	2	0.0007969
BC023882	cDNA sequenc	1423919_at	1.7	0.0007999
Sfrp4	secreted frizzl	1451031_at	2	0.0008029
		1460563_at	1.7	0.0008086
Usp9x	ubiquitin speci	1450037_at	1.7	0.0008104
Hrb2	HIV-1 Rev bin	1420139_s_at	2	0.0008181
Papd4	PAP associate	1433568_at	1.7	0.0008209
Nek1	NIMA (never in	1434267_at	1.7	0.0008252
Chek1	checkpoint kin	1449708_s_at	1.7	0.0008262
BC003267	cDNA sequenc	1460369_at	2.5	0.0008278
1200008O12R	RIKEN cDNA 1	1452242_at	1.7	0.0008345
Atad1	ATPase family,	1448763_at	1.7	0.0008358
Cpeb4	cytoplasmic pc	1420618_at	2	0.0008362
Paip1	polyadenylate	1451740_at	1.7	0.0008431

Xpo1	exportin 1, CR 1418443_at	1.7	0.0008434
MGI:1915703	GPI-anchored 1453022_at	0.6	0.0008461
Acbd5	acyl-Coenzyme 1428236_at	2	0.0008482
Dnajc3	DnaJ (Hsp40) 1433887_at	1.7	0.0008533
Dnm1l	dynamamin 1-like 1428086_at	1.7	0.0008552
Rasa1	RAS p21 prote 1426476_at	2	0.0008558
Fbxo30	F-box protein 1453136_at	2.5	0.0008576
Ube3a	ubiquitin prote 1416681_at	2	0.0008594
Tomm70a	translocase of 1426675_at	1.7	0.0008597
Gmps	guanine monp 1435656_at	2	0.0008601
Nmd3	NMD3 homolo 1448133_at	2	0.0008693
Usp45	ubiquitin speci 1427991_s_at	2	0.0008758
	Transcribed lo 1435574_at	2.5	0.0008915
Clca1 /// Clca2	chloride chann 1460259_s_at	3.3	0.000897
	1457042_at	1.7	0.0008981
Hspca	heat shock prc 1426645_at	1.7	0.0009047
Oxr1	oxidation resis 1418501_a_at	1.7	0.0009071
Eif3s1	eukaryotic tra 1452052_s_at	1.7	0.0009093
Steap2	six transmemt 1446071_at	2.5	0.0009106
Hsp105	heat shock prc 1425993_a_at	1.7	0.0009115
Eif3s1	eukaryotic tra 1426394_at	1.7	0.0009128
Plekha4	pleckstrin hor 1426013_s_at	0.6	0.0009236
Ctsk	cathepsin K 1450652_at	2.5	0.0009246
Cacybp	calcyclin bindi 1452047_at	2	0.0009255
Bdh	3-hydroxybuty 1452257_at	2	0.0009317
Lin7c	lin 7 homolog 1449262_s_at	2	0.000932
Kif5b	kinesin family 1418427_at	1.7	0.0009345
2610101J03Ri	RIKEN cDNA 2 1434941_s_at	2	0.0009362
Casp12	caspase 12 1449297_at	1.7	0.0009406
5730446C15R	RIKEN cDNA 5 1454724_x_at	1.7	0.0009545
Arid4b	AT rich interac 1435768_at	1.7	0.0009545
1110067D22R	RIKEN cDNA 1 1424318_at	1.7	0.000957
Man2b2	mannosidase ;AFFX-18SRNAI	2	0.000957
Mib1	mindbomb hor 1454740_at	2	0.0009595

	Transcribed lo	1460085_at	2	0.0009607
Ddx26	DEAD/H (Asp-	1423275_at	2	0.0009729
Ankrd32	ankyrin repeat	1423577_at	2.5	0.0009758
A430041B07R	RIKEN cDNA A	1434843_at	1.7	0.0009767
Usp33	ubiquitin speci	1426709_a_at	2	0.0009791
Gmfb	glia maturatio	1431686_a_at	2	0.0009842
6330441O12R	RIKEN cDNA 6	1438736_at	2	0.0009943
Miz1	Msx-interactin	1428725_at	1.7	0.0009974
Narg1	NMDA recepto	1418023_at	2	0.0009983