

Additional file 7. Alignment of amino acid sequences of PmDHF_R-TS (A) and PoDHF_R-TS (B) from the China-Myanmar border area and other countries

A.

		16	50	51	59	
Pf 3D7		MMEQVCDVFDIYAIACACCKVESKNEGKKNVEFNNTFRGLGNKGVL	PWKNSLDMKYFCAV	TTVYVNESKYEK	KLKYRCKYLNKETVDNVN	-----DMPNSKK [97]
Pf TZ 2000708		MMEQVCDVFDIYAIACACCKVESKNEGKKNVEFNNTFRGLGNKGVL	PWKNSLDMKYFCAV	TTVYVNESKYEK	KLKYRCKYLNKETVDNVN	-----DMPNSKK [97]
Pm TH Pm3		M-E-EVSDVFDIYAIACACCKVPNQGEGKKNEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [103]	
Pm TH Te		M-E-EVSDVFDIYAIACACCKVPNQGEGKKNEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [103]	
Pm TH Tu		M-E-EVSDVFDIYAIACACCKVPNQGEGKKNEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [103]	
C0400117		-----NEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [76]	
MON00290		-----IFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [74]	
MON00556		-----ICACCKVPNQGEGKKNEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [91]	
MON00648		-----ICACCKVPNQGEGKKNEIFSTKTFRGLGNKG	CLPWKNSLDMKYFSSV	TTYVNEMKYK	KLKYRCKYLKEISNENSSTVFENISLLSSSK [91]	
		108		164		
Pf 3D7		LQNVMVGRTSWESIPKFKPLSNRINVL	SRTLKKEDFDEDVYIINKVEDLIVL	LGKLNYYKCFIIGGSVVYQEFLEK	KLIKIKYFTRINSTYECDFVFPPEIN [201]	
Pf TZ 2000708		LQNVMVGRTSWESIPKFKPLSNRINVL	SRTLKKEDFDEDVYIINKVEDLIVL	LGKLNYYKCFIIGGSVVYQEFLEK	KLIKIKYFTRINSTYECDFVFPPEIN [201]	
Pm TH Pm3		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [207]	
Pm TH Te		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [207]	
Pm TH Tu		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [207]	
C0400117		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [180]	
MON00290		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [178]	
MON00556		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [195]	
MON00648		LQNVMVGRSSWVSI	PKQYKPLPNRINNVLSRTLKKEDVKEDIF	IINMMDQVLVLLKLNYYKCFIIGGATVYK	CLERNLIKQIYFTRINNVYECDFVFPPEID [195]	
Pf 3D7		ENEYQIISVSDVYTSNNTLDFI	IYKKTNNKMLNE----ONCIKGE	EKNNDMPLKNDKDTCHMKKLETFYK	NVDK---YKINYENDDDDEEDDFVYFNFNK [297]	
Pf TZ 2000708		ENEYQIISVSDVYTSNNTLDFI	IYKKTNNKMLNE----ONCIKGE	EKNNDMPLKNDKDTCHMKKLETFYK	NVDK---YKINYENDDDDEEDDFVYFNFNK [297]	
Pm TH Pm3		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [311]	
Pm TH Te		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [311]	
Pm TH Tu		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [311]	
C0400117		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [284]	
MON00290		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [282]	
MON00556		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [299]	
MON00648		ENVFOIISVSDVYTSNCTSLDFV	IFSKRKKALTOBSLPHOSSGSDKGSNTSSTIS	NGAMSSNTIRGSTSSSGKGGGESIFER	YNFMGDEEDDLVYFNFNN [299]	
Pf 3D7		EKEEKKNKSIHPNDFQIYNSLKYKYHPEYQYLSIIYDI	IMNGNKQNDRTG	VGVLKSKFGYIMKENL	NOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [401]
Pf TZ 2000708		EKEEKKNKSIHPNDFQIYNSLKYKYHPEYQYLSIIYDI	IMNGNKQNDRTG	VGVLKSKFGYIMKENL	NOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [401]
Pm TH Pm3		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [414]
Pm TH Te		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [414]
Pm TH Tu		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [414]
C0400117		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [387]
MON00290		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [385]
MON00556		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [402]
MON00648		NKNE-YKNAENANDEK	IYNSLKEKHHP	PEYQYLSIIYDIIMNGNKQNDRTG	VGVLKSKFGYIMKENLNOYFPLLTTKKFLRGIIEELLWFRGE	TNGNTLLNKNV [402]
Pf 3D7		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
Pf TZ 2000708		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
Pm TH Pm3		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
Pm TH Te		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
Pm TH Tu		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
C0400117		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
MON00290		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
MON00556		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
MON00648		RIWEANGTREFLDNRKLFHREVNDLGP	IYGFQWRHFGA	EYTNMHNANYEDKGV	DQLNKIHLIKNDP	TSRRILLCAWNVKDL
Pf 3D7		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
Pf TZ 2000708		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
Pm TH Pm3		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
Pm TH Te		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
Pm TH Tu		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
C0400117		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
MON00290		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
MON00556		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI
MON00648		IMYQRSCDLGLGVPFNIA	SYSIPTHMIAQVCN	LQPAQFIHLGN	AHVYNNHIDSLKVLNRI	YPFPPTLKNPDIKNI

* **GenBank accession numbers:** Isolates of China-Myanmar border: KX672033 (C0400117), KX672034 (MON00556), KX672035 (MON00648), KX672036 (MON00290); Pf: XM_001351443 and KI926308 (Tanzania, TZ 2000708); Thailand (TH) isolates: EF188271 (Pm3), EF188272 (Te) and EF188273 (Tu).

B.

	16	50 51	59	
Pf 3D7	MMEQVCDVFDIYAICACCKVESKNEGKKNVFNNTFRGLGNKGVLPWKCNSLDMKYFCAVTTYVNESKEYEKLKYRCKYLNKET-----VDNVNDMPNSKKLQNVV			[102]
Pf TZ 2000708	MMEQVCDVFDIYAICACCKVESKNEGKKNVFNNTFRGLGNKGVLPWKCNSLDMKYFCAVTTYVNESKEYEKLKYRCKYLNKET-----VDNVNDMPNSKKLQNVV			[102]
Pow UG Po2012-3	M-EVCEVFDIYAICACCKVSKEGDWKKSSESSSTFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[107]
Pow NG Po2006	M-EVCEVFDIYAICACCKVSKEGDWKKSSESSSTFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[107]
Poc IN Po2003	M-EVCEVFDIYAICACCKVSKEGDWKKSSESSSTFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[107]
Poc ID Po2012-2	M-EVCEVFDIYAICACCKVSKEGDWKKSSESSSTFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[107]
M0500214	-----STFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[74]
C0100511	-----STFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[74]
M0102751	-----DWKKSSESSSTFRGCGNKGILPWKCNVSDISYFSSVTTYVNEWNYKLLKYKREKYLEKDSNDKKKVDVINIAPTSSKKLQNVV			[84]
	108	164		
Pf 3D7	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[210]
Pf TZ 2000708	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[210]
Pow UG Po2012-3	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[215]
Pow NG Po2006	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[215]
Poc IN Po2003	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[215]
Poc ID Po2012-2	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[215]
M0500214	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[182]
C0100511	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[182]
M0102751	VMGRSWSWESIPKPKFPLSNRINVLRSRTLLKKEDFDEDVYIINKVEDLIVLLGKLNYYKCFIIGGSVVYQEFLEKLLIKKIYFTRINSTYECVDFVFPPEINENEYQIISV			[192]
Pf 3D7	SDVYTSNNTLDFIYKKTNNKMLNEQNCIRGEENK-----NDMPLKNDKDTCHMKKLETFYKNDVKYK-----INYNDDDDDEEDD			[289]
Pf TZ 2000708	SDVYTSNNTLDFIYKKTNNKMLNEQNCIRGEENK-----NDMPLKNDKDTCHMKKLETFYKNDVKYK-----INYNDDDDDEEDD			[289]
Pow UG Po2012-3	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[321]
Pow NG Po2006	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[323]
Poc IN Po2003	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[319]
Poc ID Po2012-2	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[319]
M0500214	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[286]
C0100511	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[286]
M0102751	SEVYSSNCTTLDLFIYSRKKKDTQNDGDSSESTTT---TATATATWPGIAGDTSMNIAETSTTYASSHHGKSSKWWTKVCTKSGAEWVKNNMMLTSSQKDNVDEEDD			[296]
Pf 3D7	FVYFNFNKEKEEKNKNSIHPNDFQIYNSLKYKYHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[397]
Pf TZ 2000708	FVYFNFNKEKEEKNKNSIHPNDFQIYNSLKYKYHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[397]
Pow UG Po2012-3	YMYFSFNKKK-KSQIMKNVDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[428]
Pow NG Po2006	YMYFSFNKKK-KSQIMKNVDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[430]
Poc IN Po2003	YMYFSFNKKK-KSQIGKNAEDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[426]
Poc ID Po2012-2	YMYFSFNKKK-KSQIGKNAEDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[426]
M0500214	YMYFSFNKKK-KSQIGKNAEDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[393]
C0100511	YMYFSFNKKK-KSQIGKNAEDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[393]
M0102751	YMYFSFNKKK-KSQIGKNAEDFEITYNITIKLKHPEYOYLNIIYDMMNGNKQSDRTGCVGLSKFGYIMKFDLSQYFPLLTTKKLFLRGIIEELLWFRIGETNGNTLL			[403]
Pf 3D7	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[505]
Pf TZ 2000708	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[505]
Pow UG Po2012-3	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[536]
Pow NG Po2006	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[538]
Poc IN Po2003	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[534]
Poc ID Po2012-2	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[534]
M0500214	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[501]
C0100511	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[501]
M0102751	NKNVRIWEANGTREFLDNRKLFHREVNDLGPYGFQWRHFGAEYTNMYDNYENKGVLDQLNKNIINLIKNDPSTRRIILCAWNVKDLDDOMALPPCHIILCOFYVFDGKLS			[511]
Pf 3D7	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[608]
Pf TZ 2000708	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[608]
Pow UG Po2012-3	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[639]
Pow NG Po2006	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[641]
Poc IN Po2003	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[637]
Poc ID Po2012-2	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[637]
M0500214	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[557]
C0100511	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[557]
M0102751	IMYQRSCDLGLGVFPNIASYSIFTHMIAQVCNLOPAQFIHVLGNNAHYNNHIDSLKIQLNRIYPYFPPTLKLNEPIKNIIEFTISDFTIENYVHDKITMDMAA			[585]

* **GenBank accession numbers:** KX672037 (M0500214), KX672038 (C0100511), KX672039 (M0102751); KI926308 (Tanzania, TZ 2000708); Indonesia (ID): KP050408; India (IN): KP050405; Nigeria (NG): KP050406; Uganda (UG): KP050409.