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Figure 1. Malaria endemic countries divided according by WHO regions. Source: [3].



Figure 2. Life cycle of *P. falciparum* in mammal and vector hosts. Source: [7].



Figure 3. General overview of the in silico analysis of primers for 16s rDNA.



Figure 4. Standardization of PCR protocol through modifications in reagent concentrations and annealing temperature.



Figure 5. Overview of the steps followed prior to sequencing reaction through Illumina[®] platform.

1. Amplification with 5'overhanging adaptors from Illumina® attached to forward and reverse primers targeting V3-V4 of 16s r DNA is performed. 2. Attaching of Illumina® default index1 (P7) and index 2(P5). 3. The final contruct contains sequences P5/P7 for binding the surface flow and also sequencing primers to read in both directions of the amplicon. Adapted from [61].



Figure 6. Secondary structure prediction of EJW02257.1 retrieved from PSIRED.

Red lines indicate the region from 1605 to 1962 aminoacid residues where the NANPL repetitions spans into the protein. Pink squares denote Helix structure while yellow squares indicates sheet structures.



Figure 7. IUPred disorder prediction of EJW02257.1.

1605 to 1962 aminoacid residues show disorder tendency score higher than 0.8, indicating high degree of disorder.



Figure 8. Anchor prediction of EJW02257.1.

Disordered binding sites below the curves are showed by blue bars. Blue bars means sites that are predicted to be prone to bind to another protein.







Figure 10. Bacterial composition of abdomen portions of False positive samples identified by Next Generation Sequencing.







Figure 12. Bacterial composition of True Negatives identified by Next Generation Sequencing.



Figure 13. Bacterial composition of *An. stephensi* in abdomen portions identified by Next Generation Sequencing.



Figure 14. Species composition of *An. stephensi* head/thorax portion identified by Next Generation Sequencing.



Figure 15. Western Blot of the false positives samples pool. Lane 1: Ladder, Lane 2: False positive pool, Lane 3: Negative control, Lane 4: Positive control.



Figure 16. SDS gel stained with Coomassie Blue.

Lane 1: Positive control, Lane 2: Negative control, Lane 3: pool of samples. Lane 4: Ladder. Red arrows indicate bands present in the sample and not in the controls.

g	1 12697220 emb CAC28248.1
g	1 12697246 emb CAC28270.1
g	i 209402327 gb ACI45913.1
g	i 55982464 gb AAV69654.1
q	i 169865532 ref XP 001839365.
a	i 393228332 gb EJD35981.1
a	1 505756334 gb E0800494.1
9	16626244 ab 2220152 122200
9	1 0030344 gb AAF 20152.1 AF 209
g	1 194376310 dbj BAG62914.1
g	i 62897625 dbj BAD96752.1
g	i 62897409 dbj BAD96645.1
q	i 14485767 gb AAK63074.1
a	i 10442727 gb AAG17452.1
a	1 158668333 gb ABW76683.1
9	1499050836 rof VP 004575933
9	11970697721 ml ACD44570 1
g	111101064 abd ppp10025 1
g	1 11191964 [db] BAB18035.1
g	1 311222955 gb ADP76556.1
g	1 478497115 ref XP_004422896.
g	i 478497113 ref XP_004422895.
g	i 410948613 ref XP_003981025.
g	i 403267534 ref XP 003925881.
q	i 402871595 ref XP 003899742.
a	i 505801926 ref XP 004608507.
a	1 505801923 ref XP 004608506.
с С	1 8895917 gb AAF81173.1
9	1 8895853 gb AAF91141.1
9	1 8895001 cb 3500116 1
9	1 9995705 gb 33591110 1
g	1166200057
g	1 13038885/[ret]XP_001634709.
g	1 84873373 gb ABC67746.1
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g	i 38176182 gb AAR13014.1
g	i 1703130 sp P53473.1 ACTB_ST
g	i 60391982 gb AAX19287.1
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е С	1157106887 ref XP 001649530
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g	1 260785919 [fer XP_002588007.
g	1 4328/5503 ref XP_0040/28/4.
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qi	12697220 emb CAC28248.1
gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1
gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 eb AC745913.1
gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1
gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1
gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69554.1 169865532 ref XP_001839355.
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gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69554.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 [AF209 194376310 dbj BAG62914.1]
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gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228322 gb EJD35981.1 505756334 gb EOR0494.1 6636344 gb AAF20152.1 AF209 194376310 db BAP66752.1 62897625 db BAD96752.1 62897409 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 158668333 gb AAW76683.1
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gi gi gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOO0494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD96752.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK67683.1 499050836 ref XP_004575933. 187968772 gb ACD44575.1 1191964 db BAB035.1
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACI45913.1 55982464 gb AV69654.1 169865532 zef XP_001839365. 393228332 gb JJJ35981.1 505756334 gb SOR00494.1 6636344 gb AAF20152.1 AF209 194376310 dbj BAG2914.1 62897625 dbj BAD96752.1 62897409 dbj BAD96645.1 14485767 gb AAG17452.1 158668333 gb BW76683.1 499050336 ref XP_004575933. 187968772 gb ABC1755.1 11191964 dbj BAB18035.1 31122255 gb ADP76556.1 478497113 ref XP_004422895. 410948613 ref XP_00392681. 402871595 ref XP_00392742. 505801926 ref XP_004608507.
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 ref xP_001839365. 393228322 gb EJD35981.1 50756334 gb EJD35981.1 6636344 gb AAP20152.1 AF209 194376310 dbj BAC62914.1 62897625 dbj BAD96645.1 14485767 gb AAK63074.1 10442777 gb AAK63074.1 10442777 gb AAK6374.1 1199050836 ref XP_004575933. 187968772 gb AAC74579.1 11191964 dbj BAB18035.1 311222955 gb ADP76556.1 478497113 ref XP_004422895. 41094613 ref XP_003981025. 40326734 ref XP_003981025. 40326734 ref XP_003925881. 402871595 ref XP_003925881. 402871595 ref XP_004608507. 505801922 ref XP_004608506. 8895917 gb AAF1173.1
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 gb ZD35981.1 505756334 gb EOR00494.1 6636344 gb AAP20152.1 AF209 194376310 db BAD96752.1 62897409 db BAD96752.1 62897409 db BAD96752.1 10442727 gb AAG17452.1 10442777 gb AAG17452.1 1198668333 gb AW76683.1 499505036 ref XP_004575933. 187968772 gb AAC1457.1 11191964 db BAD8635.1 31122255 gb ADP76556.1 478497113 ref XP_004422896. 478497113 ref XP_003801025. 403267534 ref XP_003891025. 403267534 ref XP_003890742. 505801923 ref XP_00480507. 505801923 ref XP_00480506. 8895917 gb AAF81141.1 8895833 gb AAF81145.1 8895875 gb AAF81145.1 889575 gb AAF81145.1 889575 gb AAF81147.
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 gb ZJ5981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db] BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAG17452.1 158668333 gb BW76683.1 499050836 ref XP_004575933. 187968772 gb AAK63074.1 11191964 db] BAB18035.1 311222955 gb ADP76556.1 478497115 ref XP_004422895. 478497115 ref XP_004422895. 410948613 ref XP_003891025. 403267534 ref XP_003891025. 403267534 ref XP_003891025. 403267534 ref XP_003895742. 505801926 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 105301923 ref XP_004608507. 1053036184 gb AAF81173.1 8895991 gb AAF81155.1 8895795 gb AAF81155.1 8895795 ref XP_001634709. 84873373 gb AAC67746.1 303306184 gb AAR1314.1 1703130 sp P53473.1 ACTB_ST 60391982 gb AAX19287.1 405974534 gb EKC39169.1 6033629 db BAR3429.1 319993880 gb AAV5127.1 319983880 gb AAV5127.1 31993880 gb AV5127.1 3
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 gb ZD35981.1 505756334 gb BCR00494.1 6636344 gb AF20152.1 AF209 94376310 db] BAD96752.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 10442777 gb AAC17452.1 10442777 gb AAC17452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968722 gb ACD44579.1 11191964 db] BAB18035.1 311222955 gb ADP76556.1 478497113 ref XP_004422896. 478497115 ref XP_004422895. 402871595 ref XP_00480507. 505801923 ref XP_00480507. 505801926 ref XP_004608507. 505801923 ref XP_004608506. 889591 gb AAF81141.1 8895895 gb AAF81141.1 8895901 gb AAF81141.1 8895873 gb AAF81141.1 8895901 gb AAF81141.1 8895873 gb AAF81141.1 8895873 gb AAF81141.1 8895873 gb AAF81142.1 156388857 ref XP_001634709. 8487333 gb AAF81142.1 156388857 ref XP_001634709. 8487333 gb AAF81122.1 156388857 ref XP_001634709. 8487333 gb AAF81122.1 156388857 ref XP_001634709. 8487333 gb AAF81287.1 3176182 gb AAR13014.1 1703130 sp F53473.1 ACTB_ST 60391982 gb AAR1307.1 31893800 gb AAY76250.1 31989380 gb AAY76250.1 3199380 gb AAY76250.1 31989380 gb AAY76250.1 31993380 gb AAY76250.1 31993
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 gb EJD35981.1 505756334 gb EDD35981.1 505756334 gb EDD35981.1 6636344 gb AAF20152.1 AF209 194376310 db] BAC62914.1 62897625 db] BAD96645.1 14485767 gb AAK63074.1 10442777 gb AAC1452.1 158668333 gb BAW76683.1 499050836 ref XP_004575933. 187968772 gb AAB18035.1 311222955 gb ADP76556.1 478497115 ref XP_004422895. 41094613 ref XP_00380125. 403267534 ref XP_00389742. 505801926 ref XP_00460506. 885917 gb AAF81173.1 885583 gb AAF8115.1 885595 gb AAF81141.1 885587 ref XP_004608506. 885917 gb AAF81141.1 885583 gb AAF6115.1 885591 gb AAF81141.1 885583 gb AAF8115.1 885592 gb AAF81141.1 3836847 gb AAF8115.1 885593 gb AAF8115.1 895945 gb AAF8115.1 895945 gb AAF8115.1 895959 gb AAF8115.1 895945 gb AAF8115.1 8176182 gb AA58150 gb AA5815050.1 8176182 gb AA58150
gii ggi ggi ggi ggi ggi ggi ggi ggi ggi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 gb ZD35981.1 505756334 gb EOR00494.1 6636344 gb AAP20152.1 AF209 194376310 db] BAD662914.1 62897625 db] BAD96752.1 62897409 db] BAD96752.1 62897409 db] BAD96752.1 10442777 gb AAC3074.1 10442777 gb AAC3074.1 10442777 gb AAC3074.1 10442777 gb AAC3074.1 1199668333 gb AAW76683.1 499505036 ref XP_004575933. 187968772 gb ACD44579.1 11191964 db] BAB18035.1 311222955 gb ADP76556.1 478497113 ref XP_003422896. 478497113 ref XP_003422896. 403267534 ref XP_00349025. 403267534 ref XP_003490506. 8895917 gb AAF81173.1 88958012 gb AAF81141.1 88958951 gb AAF81141.1 88958951 gb AAF81141.1 8895875 gb AAF81141.1 8895975 gb AAF81141.1 8895875 gb AAF81141.1 8959801 gb AAF81141.1 8176182 gb AAR13014.1 1703130 sp F53473.1 ACTB_ST 60391982 gb AAX9287.1 405974534 gb EAX9165.1 6633629 db] BAA89429.1 319893809 gb AAY76250.1 157106887 ref XP_001649530. 187282496 ref XP_001649530. 187282496 ref XP_00258807. 43287553 ref XP_004072874.
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACT45913.1 55982464 gb AAV69654.1 169865532 gb ZJ35981.1 505756334 gb EOR00494.1 6636344 gb AA720152.1 AF209 194376310 db] BAD662914.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 62897627 gb AAK63074.1 10442727 gb AAG17452.1 158668333 gb BAW76683.1 499050836 ref XP_004575933. 187968772 gb ACD4579.1 11191964 db] BAB18035.1 311222955 gb AP76556.1 478497115 ref XP_004422895. 403267534 ref XP_003891725. 105801923 ref XP_003891725. 105801926 ref XP_003891725. 105801926 ref XP_00389577. 505801923 ref XP_004608506. 88959917 gb AAF81173.1 88955795 gb AF81112.1 156388657 ref XP_001634709. 84673373 gb ABC67746.1 303306184 gb AM13014.1 1703130 sp P53473.1 ACTB_ST 60391922 gb AAX19287.1 405974334 gb EAX319287.1 40597434 gb BAA89429.1 31993880 gb AP76119.1 6693629 db BAA89429.1 31993880 gb AD707250.1 357168677 ref XP_001649530. 187282496 ref NP_001119777. 260785919 ref XP_002428807. 32875503 ref XP_001649530. 187282496 ref NP_001119777. 260785919 ref XP_002472874.1 40285503.1 F7_002472874.1 40285503.1 F7_002472874.1 40285503.1 F7_002472874.1 40285503.1 F7_002472874.1 40215 gb AAA29554.1

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PAGDDAPRAVEPSIVGRPRHQGVMVGMGQ	Ľ	SIVGDEAQSKRGILILKIP	70
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	-	ILTLKYP	7
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	-		
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FAGDDAPRAVFPSLVGRPRYQPQMIGMGN	t	SYVGDEAQSKRGILTLKYP	70
FAGDDAPRAVFPSIVGRPRQSVLVGMP	E	SYVGDEAQSNKSLLTLKYP	67
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IAALVVDNGSGMCKAG	16
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MSDEDIALVVDNGSGMCKAG	20
MEDDVSALVFDIGSSTFKAG	20
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91	12697226 emb CAC20240.1	
gı	12097240 emb CAC28270.1	_
gı	209402327 gb AC145913.1	_
gı	55982464 gD AAV69654.1	_
gi	169865532 ref XP_001839365.	I
gı	393228332 gb EJD35981.1	I
gi	505756334 gb EOR00494.1	I
gi	6636344 gb AAF20152.1 AF209	-
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gi	62897625 dbj BAD96752.1	I
gi	62897409 dbj BAD96645.1	I
gi	14485767 gb AAK63074.1	-
qi	10442727 gb AAG17452.1	I
gi	158668333 gb ABW76683.1	_
ai	499050836 ref XP 004575933.	т
ai	187968772 gb ACD44579.1	_
ai	11191964 dbi BAB18035.1	т
ai	311222955 gb ADP76556.1	Ť
gi	478497115 rof VP 004422896	-
gi	478497113 ref VP 004422895	т
gi	410049613 rof VP 003091025	÷
91	402267524 wof VD 002025001	÷
91	403207534 [101 AF_003925881.	-
gı	4028/1595 Fer XP_003899/42.	1
g1	505801926 [fer XP_004608507.	_
gī	505801923 ret XP_004608506.	1
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gi	1703130 sp P53473.1 ACTB_ST	M
gi	60391982 gb AAX19287.1	I
gi	405974534 gb EKC39169.1	I
gi	6693629 dbj BAA89429.1	I
gi	319893880 gb ADV76250.1	I
gi	157106887 ref XP 001649530.	I
gi	187282496 ref NP 001119777.	I
gi	260785919 ref XP 002588007.	I
gi	432875503 ref XP_004072874.	I
qi	160215 gb AAA29554.1	D
		_
qi	12697220 emb CAC28248.1	AP
gi qi	12697220 emb CAC28248.1	AP
gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 qb AC145913.1	AP AP AP
gi gi gi qi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACI45913.1 55982464 gb AAV69654.1	AP AP AP
gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AX469654.1 169865532 ref XP 001839365.	AP AP AP AP
gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1	АР АР АР АР
gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJJ35981.1 505756334 gb EOR0494.1	АР АР АР АР АР
gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XF_001839365. 393228332 gb EJD35981.1 505756334 gb EAF20152.1 AF209	АР АР АР АР АР АР
gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACI45913.1 55982464 gb AAV69654.1 169865532 ref Kr_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1	АР АР АР АР АР АР
gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJJ35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897625 db BAD96752.1	АР АР АР АР АР АР АР
gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AXV69654.1 169865532 ref KP_001839365. 393228332 gb EJD 35981.1 505756334 gb EAR0494.1 6636344 gb AAF20152.1 AF209 194376310 db BAC62914.1 62897409 db BAD96752.1 62897409 db BAD96645.1	АР АР АР АР АР АР АР
gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACI45913.1 55982464 gb AAV69654.1 169865532 ref KP_01839365. 393228332 gb EJJ35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db j BAC62914.1 62897625 db j BAD96752.1 62897409 db j BAD96635.1 14485767 db AAK63074.1	АР АР АР АР АР АР АР АР
gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG2914.1 62897625 db BAD96752.1 62897409 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAK6307452.1	АР АР АР АР АР АР АР АР АР
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gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96645.1 14485767 gb AAR63074.1 10442727 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref Xr_004575933. 187968772 gb AAC44579.1 1191964 db BAB8035.1	АР АР АР АР АР АР АР АР АР АР АР АР АР
gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref KP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD96455.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAG17452.1 158668333 gb ABW76685.1 499050836 ref KF_004575933. 187968772 gb AC44579.1 11191964 db BAB18035.1 311222955 gb AD76556.1	4 4 4 4 4 4 4 4 4 4 4 4 4 4
gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref [xr_01839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db J BAC62914.1 62897625 db J BAD96752.1 62897409 db J BAD96752.1 62897409 db J BAD96752.1 10442727 gb AAG17452.1 10442727 gb AAG17452.1 1188668333 gb ABW76683.1 499050836 ref [xr_004575933. 187968772 gb [AAE04579.1] 11191964 db J BAB8035.1 311222955 gb [AD76556.1] 478497115 ref [xr_004422896.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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gi gi gi gi gi gi gi gi gi gi	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref [xp_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 119966453 gb ABW76683.1 499050836 [ref [xp_004575933. 187968772 gb AAC4579.1 11191964 db BAB18035.1 311222955 gb AD76556.1 478497113 [ref [xp_004422895.4 410946613 [ref [xp_003881025.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref Xr_0044759.1 11191964 db BAB8035.1 311222955 gb AD776556.1 478497115 ref Xr_004422896. 478497113 ref Xr_004422895. 410946613 ref Xr_003881025. 402871595 ref Xr_00389742.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AX469654.1 169865532 ref [XF_001839365. 393228332 gb [JJJJ5981.1] 505756334 gb [ER00494.1] 6636344 gb [ARF20152.1 AF209 194376310 dbj [BAC96752.1] 62897409 dbj [BAD9645.1] 14485767 gb AAK63074.1] 10442727 gb AAK63074.1] 10442727 gb AAK63074.1] 158668333 gb ABY6683.1] 499050836 ref [XF_004575933. 187968772 gb AC44579.1] 11191964 (dbj [BAB18035.1] 311222955 gb ADP76556.1] 478497113 ref [XF_004422895. 410946613 ref [XF_003981025. 40287534 ref [XF_003989742. 5058012926 ref [XF_003899742. 5058012926 ref [XF_004608507.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb ACI45913.1 55982464 gb AAV96964.1 16986532 ref [xp_001839365. 393228332 gb EJD35981.1 50575533 gb EJD35981.1 505755334 gb AP20152.1 AF209 194376310 dbj BAG62914.1 62897409 dbj BAD96752.1 62897409 dbj BAD9645.1 14485767 gb AAG17452.1 10442727 gb AAG17452.1 15866833 gb ABW76683.1 499050836 ref [xp_004575933. 187968772 gb AAC4579.1 11191964 dbj BAB18035.1 311222955 jb AD76556.1 478497113 ref [xp_004422896. 478497113 ref [xp_003422895. 41094613 ref [xp_00381025. 403267534 ref [xp_00389742. 505801926 ref [xp_004608507. 505801923 ref [xp_004608506.	
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EDR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAG17452.1 158666333 gb ABW76683.1 149950836 ref Xr_004575933. 187968772 gb AAC4579.1 11191964 db BAB8035.1 311222955 gb AD775556.1 478497115 ref Xr_004422895. 40326754 ref Xr_003925881. 402871595 ref Xr_003891025. 40326754 ref Xr_00389742. 505801926 ref Xr_004608507. 505801923 ref Xr_004608506.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AXV69654.1 169865532 ref XT_01839365. 393228332 gb EJD35981.1 505756334 gb EAR0494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 1158668333 gb ABY6683.1 499050836 ref XT_004575933. 187968772 gb AAC64579.1 11191964 db BAB18035.1 311222955 gb AD76556.1 478497115 ref XT_004922895. 410948613 ref XT_003981025. 403267534 ref XT_003981025. 403267534 ref XT_003981025. 403267534 ref XT_00398742. 505801926 ref XT_00399742. 505801926 ref XT_004608507. 505801923 ref XT_004608506. 8895917 gb AAF81171.1 895883 gb AAF81141.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 16986532 ref KP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD96752.1 14485767 gb AAG17452.1 14485767 gb AAG17452.1 14485767 gb AAG374.1 10442727 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC4579.1 1119164 db BAB76556.1 478497113 ref XP_004422896. 478497113 ref XP_004422895. 403267534 ref XP_003981025. 403267534 ref XP_003925881. 402871595 ref XP_00399742. 505801926 ref XP_004608507. 505801926 ref XP_004608506. 8895917 gb AAF81173.1 8895801 gb AAF81165.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XT_001839365. 393228332 gb EJD35981.1 505756334 gb EDR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 1044277 gb AAK63074.1 1044277 gb AAK63074.1 1044277 gb AAK63074.1 1158666333 gb ABW76683.1 479050836 ref XT_004422896. 478497115 ref XT_004422895. 41094613 ref XT_003425881. 402875395 ref XT_00389742. 505801926 ref XT_004608507. 505801923 ref XT_004608507. 505801923 ref XT_004608507. 505801923 ref XT_004608506. 895917 gb AAF81173.1 8855801 gb AAF81141.1 885901 gb AAF81142.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AX469654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAC62914.1 62897409 db BAD96752.1 62897409 db BAD96752.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 11448767 gb AAK63074.1 11448767 gb AAK63074.1 11448771 gb AAC1452.1 138668333 gb AB76683.1 311222955 gb AD76556.1 478497113 ref XP_004522895. 410948613 ref XP_003981025. 403267534 ref XP_003981025. 403267535 ref XP_00389742. 505801926 ref XP_004608507. 505801926 ref XP_004608507. 505801923 ref XP_004608506. 8855917 gb AAF81141.1 885595 gb AAF81142.1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 16986532 ref [xP_001839365. 393228332 gb EJD35981.1 505756334 gb EXD0494.1 6636344 gb AAF20152.1 [AF209 194376310 db]BA062914.1 62897409 db]BAD9645.1 14485767 gb [AAK63074.1] 10442727 gb [AAK63074.1] 10442727 gb [AAK63074.1] 10442727 gb [AAK63074.1] 119964 db] BAD96645.1 119966772 gb [AAF61752.1] 119968772 gb [AC04575933. 187966772 gb [AC04579.1] 11191964 db] BAB18035.1] 311222955 gb [AD776556.1] 478497113 ref [xP_004422896. 478497113 ref [xP_003925881. 40287534 ref [xP_00399142. 505801923 ref [xP_004608506. 8895917 gb [AAF81173.1] 8895633 gb [AF81165.1] 8895595 gb [AAF8112.1] 156388857 ref [xP_001634709.	<u> </u>
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AXV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EAR0494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD6455.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 11964641 db BAB18035.1 31122955 gb AD76556.1 478497115 ref XP_004575933. 187968772 gb AAC4579.1 31122955 gb AD76556.1 478497113 ref XP_00422895. 410948613 ref XP_003981025. 403267534 ref XP_003981025. 403267534 ref XP_003981025. 403267534 ref XP_003981025. 403267534 ref XP_004608507. 505801926 ref XP_004608507. 505801926 ref XP_004608506. 8895917 gb AAF81173.1 8895833 gb AAF81141.1 8895873 gb AAF81165.1 8895795 gb AAF81141.1 8895873 gb AAF81164.1 303306184 gb AAM13664.1 30376182 gb AAM13014.1	
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 16986532 ref [xP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 [AF209 194376310 db] BA062914.1 62897409 db] BA09645.1 14485767 gb [AAK63074.1] 10442727 gb [AAK63074.1] 10442727 gb [AAK63074.1] 10442727 gb [AAK63074.1] 10442727 gb [AAK63074.1] 119964 db] BA096645.1] 119966772 gb [AC044579.1] 1119164 db] BAB18035.1] 311222955 gb [AD76556.1] 478497113 ref [xP_004422896. 478497113 ref [xP_003422896. 478497113 ref [xP_003492881. 40287534 ref [xP_00399742. 505801923 ref [xP_004608506. 8895917 gb [AAF81173.1] 8895631 gb [AAF81165.1] 8895595 gb [AAF81165.1] 8895691 gb [AAF81165.1] 30306184 gb [AAR13014.1] 1703130 [sp [F53473.1]ACTB ST	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gji gji gji gji gji gji gji gji gji g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EDR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96752.1 62897609 db BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 1044277 gb AAG17452.1 1158668333 gb ABW76683.1 499050836 ref Xr_004422896. 478497113 ref Xr_004422895. 403267534 ref Xr_003925881. 40287559 jb AAF81173.1 8895571 gb AAF81173.1 8895901 gb AAF81141.1 15538857 ref Xr_0034570. 505801923 ref Xr_004608506. 8895917 gb AAF81141.1 15338857 ref Xr_0034261. 33306184 gb AAF8112.1 15338857 ref Xr_0034284.1 33306184 gb AAF8112.1 1703130 gb P53473.1 ACTB_ST 60391892 gb AAF827.1	
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AX469654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EAR04944.1 6636344 gb AAF20152.1 AF209 194376310 db BAC62914.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 1191964 db BAB18035.1 31122955 gb AD76556.1 478497115 ref XP_004922895. 410948613 ref XP_003981025. 403267534 ref XP_003981025. 403267534 ref XP_00398742. 505801926 ref XP_004608507. 505801926 ref XP_004608507. 505801926 ref XP_004608507. 505801926 ref XP_004608506. 8859517 gb AAF81141.1 8895795 gb AAF81141.1 8895795 gb AAF81142.1 156388857 ref XP_001634709. 84873373 gb AAF61746.1 303306184 gb AAM13064.1 3176122 gb AAX13014.1 1703130 gb P53473.1 ACTB_ST 60391982 gb AAX19287.1	
gi gji gji gji gji gji gji gji gji gji g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AX469654.1 169865322 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 144856833 gb BBV76683.1 47849712 gb AC44579.1 11191964 db BAB18035.1 311222955 gb AD776556.1 478497113 ref XP_004422895. 403267534 ref XP_00381025. 403267534 ref XP_003801025. 403267534 ref XP_003801025. 403267534 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801923 ref XP_004608507. 505801926 ref XP_001634709. 8895587 gb AAF81173.1 8895597 gb AAF81165.1 8895593 gb AAF81165.1 8895597 gb AAF81165.1 8895593 gb AAF81165.1 889594 gb AAF81165.1 889594 gb AAF81165.1 8895959 gb AAF81165.1 8895959 gb AAF81165.1 889594 gb AAF81165.1 8895959 gb AAF81165.1 8895959 gb AAF81165.1 8895961 gb AAF8165.1 8895961 gb ABF8165.1 8895961	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gji gji gji gji gji gji gji gji gji g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EDR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96752.1 62897609 db BAD96752.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAG17452.1 1158668333 gb ABW76683.1 499050836 ref Xr_004422896. 478497115 ref Xr_004422895. 403267534 ref Xr_00382681. 40287559 jb ADP76556.1 478497115 ref Xr_004422895. 403267534 ref Xr_003925881. 402871595 ref Xr_003925881. 402871595 ref Xr_003925881. 402871595 ref Xr_003890742. 505801923 ref Xr_004608507. 505801923 ref Xr_004608506. 8895971 gb AAF81173.1 8895583 gb AAF81141.1 15388857 ref Xr_0034709. 84873373 gb ABC67746.1 303306184 gb AAR13014.1 1703130 esp F53473.1 ACTB_ST 60391892 gb AAR927.1 405974534 gb JEKC39169.1 60391692 gb JAA8929.1 319893880 gb JAAV76250.1	<u> </u>
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb Ac145913.1 55982464 gb AX469654.1 169865532 ref XF_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAC62914.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 14485767 gb AAK63074.1 1191964 db BAB18035.1 31122955 gb AD76556.1 478497113 ref XF_00349742. 505801926 ref XF_00349742. 505801926 ref XF_00349742. 505801926 ref XF_00349742. 505801926 ref XF_003496050. 8855917 gb AAF81141.1 885595 gb AAF81141.1 885595 gb AAF81141.1 885575 gb AAF81141.1 885575 gb AAF81141.1 885575 gb AAF81141.1 885575 gb AAF81141.1 885575 gb AAF81141.1 1703130 gb P53473.1 ACTB_ST 60391982 gb AAX19287.1 405974534 gb EAC7945.1 31766887 ref XF_00164530.	
gi gji gji gji gji gji gji gji gji gji g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AX969654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EOR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897409 db BAD9645.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAF07452.1 158668333 gb BW76683.1 499050836 ref XP_004575933. 187968772 gb AC044579.1 11191964 db BAB18035.1 311222955 gb AD776556.1 478497113 ref XP_004422895. 403267534 ref XP_003981025. 403267534 ref XP_003981025. 403267534 ref XP_004608507. 505801923 ref XP_004608507. 505801926 ref XP_004608506. 8895971 gb AAF81173.1 8895575 gb AAF81165.1 8895575 ref XP_001634709. 8473373 gb ABC67746.1 30306184 gb AM13664.1 3176182 gb AAR13174.1 1703130 sp F53473.1 ACTB_ST 60391982 gb AAX19287.1 405974534 gb EXC39169.1 6636229 db BAB9429.1 319893880 gb ADV76250.1 57106887 ref XP_001119777.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
gi gi gi gi gi gi gi gi gi gi gi gi gi g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref Xr_001839365. 393228332 gb EJD35981.1 505756334 gb EDR00494.1 6636344 gb AAF20152.1 AF209 194376310 db BAD662914.1 62897609 db BAD96752.1 62897609 db BAD96752.1 14865767 gb AAK63074.1 10442727 gb AAG17452.1 118666333 gb ABW76683.1 499050836 ref Xr_004575933. 187968772 gb AAC4579.1 11191964 db BAB8035.1 31122255 gb ADP76556.1 478497115 ref Xr_004422895. 403267534 ref Xr_003925881. 402871595 ref Xr_003809742. 505801923 ref Xr_004608506. 8895917 gb AAF81173.1 8895583 gb AAF81141.1 15388857 ref Xr_0034709. 84873373 gb AAF8112.1 15388857 ref Xr_0154709. 18776182 gb AAR13014.1 1703100 sp F53473.1 ACTB_ST 60391892 gb AAR927.1 405974534 gb JEKC39169.1 60391692 gb JAA8929.1 319893880 gb JAAV76250.1 157106887 ref Xr_001119777. 260785919 ref Xr_002588007.	
gi gji gji gji gji gji gji gji gji gji g	12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AX69654.1 169865532 ref XT_01839365. 393228332 gb EJD35981.1 505756334 gb EAR04944.1 6636344 gb AAF20152.1 AF209 194376310 db BAD66251.1 14485767 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 10442727 gb AAK63074.1 119164 db BAB8035.1 311222955 gb AD76556.1 478497113 ref XT_003981025. 403267534 ref XT_00398712. 505801926 ref XT_003981025. 403267534 ref XT_00398712. 505801923 ref XT_003897742. 505801923 ref XT_003897742. 505801923 ref XT_001634709. 8859737 gb AAF81165.1 8895957 jb AAF81165.1 8895957 jb AAF81165.1 889597 ref XT_001634709. 84873373 gb AAF81141.1 703130 sp P53473.1 [ACTT_ST 60391962 gb [AAR30164.1] 3176182 gb [AAR30164.1] 31876182 gb [AAR30164.1] 31876182 gb [AAR3014.1] 703306184 gb [AM13064.1] 31989380 gb [AD76250.1] 157106887 [ref [XT_001649530. 187282496 ref [XT_001649530. 187282496 ref [XT_002588007. 43287550 [ref [XT_00258807.	

HTFYNELR	v	APEEHPVLLTE	20
HTFYNELR	v	APEEHPVLLTE	20
HTFYNELR	v	APEEHPVLLTE	20
HTFYNELR	v	APEEHPVLLTE	20
IEHGIVTNWDDMEKIWHHTFYNELR	v	APEEHPVLLTE	107
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
LR	V	APEEHPVLLTE	14
GIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	79
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
TNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	31
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
	-		
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	107
<u>EL</u> R	V	APEEHPVLLTE	15
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	44
IEHGIVTNWDDMEKIWHHTFYNELR	V	APEEHPVLLTE	103
IWHHTFYNELR	V	APDEHPILLTE	66
IEHGVVTNWDDMEKIWHHTFYNELR	V	APDEHPILLTE	108
IEHGVVTNWDDMEKIWHHTFYNELR	V	APDEHPILLTE	108
IEHGVVTNWDDMEKIWYHTFYNELR	V	APDEHPILLTE	108
IEHGVVTNWNDMEKIWYHTFYNELR	V	APDEHPILLTE	108
IWHHTFYNELR	V	APDEHPILLTE	66
IEHGVVTNWDDMEKIWHHTFYNELR	V	APDEHPILLTE	108
FYNELR	V	APEEHPVLLTE	18
FYNELR	V	APEEHPVLLTE	18
FYNELR	V	APEEHPVLLTE	18
FYNELR	V	APEEHPVLLTE	18
IEHGIVTNWDDMEKIWHHTFYNELR	v	APEEHPVLLTE	107
LEHGIVTNWDDMEKIWHHTFYNELR	Ľ	APEEHPVLLTE	108
IEHGIVTNWDDMEKIWHHTFYNELR	Y	APEEHPVLLTE	108
MEHGIVTNWDDMEKIWHHTFYNELR	Ľ	APEEHPVLLTE	108
LEHGIVTNWDDMEKIWHHTFYNELR	<u> </u>	APEEHPVLLTE	107
LEHGIVTNWDDMEKIWHHTFYNELR	<u> </u>	APEEHPVLLTE	108
LENGIVINWDDMERIWHHTPINELR	×.	APEEHPVLLIE	107
LENGIVINWDDMEXIWHHIPINELA	v. 	APEENPVLLIE	100
FUCTIONNE DOMENTAL PROPERTY OF THE DESCRIPTION OF T	×.	APEEHPVLLITE	100
EERGIVINWDDMEXIWHHIFINELC	v. 	APEENPVLLIE	107
	v. 07	APEENPVLLT	104
TENGLY INWOOMENT PRESS	v.	DENANDNUDEN	150
DEDRINDGHAEDAENENGI AIIAAENQI GOGAI DI AHAI A	*		150
PLNPKSNREKMTQIMFETFNAPAFYVSIQAVLSLYA	5	GRTTGIVLDS	68
PLNPKSNREKMTQIMFETFNAPAFYVSIQAVLSLYA	S	GRTTGIVLDS	68
PLNPKSNREKMTQIMFETFNAPAFYVSIQAVLSLY	S	GRTTGIVLDS	68
PINPKSNREKMTQIVFETFNAPAFYVSIQAVLSLYA	S	GRTTGIVLDS	68
PLNPKANREKMTQIMFETFNAPAFYVAIQAVLSLYA	S	GRTTGIVLDS	155
PLNPKANREKMTQIMFETFNAPAFYVAIQAVLSLYA	S	GRTTGIVLDS	155
PLNPKANREKMTQIMFETFNAPAFYVAIQAVLSLYA	S	GRTTGIVLDS	155
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYC	18	GRTTGIVMDS	62
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYA	18	GRTTGIVMDS	127
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYA	S	GRTTGIVMDS	155
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYA	18	GRTTGIVMDS	155
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYP	S	GRTTGIVMDS	79
PLNFKANREKMTQIMFETFNTPAMYVAIQAVLSLYA	S	GRTTGIVMDS	155
			100
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYP	S	GRTTGIVMDS	155
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYP	8	GRTTGIVLDS	63
PLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYP	S	GRTTGIVMDS	92
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gi 12697220 emb CAC28248.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTEYLMKILMERGYSFNTSA 117
gi 12697246 emb CAC28270.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILMERGYSFSTSA 117
gi 209402327 gb ACI45913.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILMERGYSFSTTA 117
gi 55982464 gb AAV69654.1	GDGVTHVVPIYEGFALPHAISRVDMAG-RDLTDYLMKILAERGYTFSTTA 117
gi 169865532 ref XP_001839365.	GDGVTHTVPIYEGFALPHAILRLDLAG-RDLTDYLIKCLGERGYPFTTTA 204
gi 393228332 gb ETD35981.1	GDGVTHTVPTYEGFALPHATLELDLAG-EDLTDYLIKTLMEEGYPFTTTA 204
gi 505756334 gb EOR00494.1	GDGVSHTVPIYEGYALPHAIIRLDLAG-RDLTDYLIKILMERGYPFTTSA 204
gi 6636344 gb AAF20152.1 AF209	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTP 111
gi 194376310 dbi BAG62914.1	GDGVTHTVPIYEGYALPHATLRLDLAG-RDLTDYLMKILTERGYSFTTTA 176
gi 62897625 dbj BAD96752.1	GDGVTHTVPTVFGVALPHATLELDLAG_EDLTDVIMKTLTERGVSFTTTA 204
gi 62897409 dbj BAD96645 1	CDCUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTUTU
ai 14495767 ab 33863074 1	COCUTUMUNT VECYAL DUALT DI DI AC-DDI TOVI MALI TEDOVOSTITA 129
gi 10442727 gb AAC03074.1	CDCVTHIVELIEGIADERATINEDERG-RODIDIERRIDIERGIOFILIA 120
gi 159669222 ab 20076692 1	GDGVIHIVFIIEGIADFAAIDADDAG-ADDIDIDAAIDIEAGISFIIIA 204
gi 100000335 gD ABW/0005.1	COCUCUMUM TYPECYAL DUALTED TAC DOT MOVE WATE MEDCYCEMMER 204
gi 197069772 ab 2004575555	CDCVCHTVPIIEGIALPHAILKLDLAG-KDLTDILKKILTERGISFIIIA 204
g1 18/968//2 gD ACD445/9.1	GDGVSHTVPIYEGYALPHAILKLDLAG-RDLTDYLMKILTERGYSFIFTA 112
g1 [11191964 [dD] [BAB18035.1]	GDGVTHTVPIYEGYALPHAILKLDLAG-RDLTDYLMKILTERGYSFIFIA 141
g1 311222955 gD ADP /6556.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFIFIA 200
g1 4/849/115 ref XP_004422896.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNPTPTA 160
g1 478497113 ref XP_004422895.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNFTTTA 202
g1 410948613 ref XP_003981025.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNFTTTA 205
g1 403267534 ref XP_003925881.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNFTTTA 205
gi 402871595 ref XP_003899742.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLIKILTERGYNFTTTA 205
gi 505801926 ref XP_004608507.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNFTTTA 163
gi 505801923 ref XP_004608506.	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYNFTTTA 205
gi 8895917 gb AAF81173.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDMTDYLMKIMTERGYSFTTTA 115
gi 8895853 gb AAF81141.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTA 115
gi 8895901 gb AAF81165.1	GDGVTHTVPIYEGYALPHAILRLDLAG-RDLTDYLVKILTERGYSFTTTA 115
gi 8895795 gb AAF81112.1	GDGVSHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTA 115
gi 156388857 ref XP_001634709.	GDGVTHTVPIYEGYALPHAIIRLDLAG-RDLTDYLMKILTERGYSFTTTA 204
gi 84873373 gb ABC67746.1	
gi 303306184 gb ADM13664.1	GDGVSHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTA 205
gi 38176182 gb AAR13014.1	GDGVSHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTA 205
gi 1703130 sp P53473.1 ACTB ST	GDGVSHTVPIYEGYALPHAILRLDLAG-RDLTDYLMKILTERGYSFTTTA 205
gi 60391982 gb AAX19287.1	GDGVSHTVPIYEGYALPHAIMRLDLAG-RDLTDYLMKILTERGYSFTTTA 204
gi 405974534 gb EKC39169.1	GDGVSHTVPLYEGYALPHAIMRLDLAG-RDLTDYLMKILTERGYSFTTTA 205
gi 6693629 dbi BAA89429.1	GDGVSHTVPLYEGYALPHATLRLDLAG-RDLTDYLMKTLTERGYSFTTTA 204
gi 319893880 gb ADV76250.1	GDGVSHTVPTYEGYALPHATLELDLAG-EDLTDYLMKTLTERGYSETTTA 204
gi 157106887 ref XP 001649530	CDCUSHTUPTYECVALPHATLELDLAC_RDLTDVIMKTLTERCUSETTTA 205
gi 187282496 ref NP 001119777	CDCUTHTUDIVECVAL PHATLELDLAC-PDLTDVIMKTLTFRCVSFTTTA 205
gi 260785919 ref XP 002588007	CDCVTHTVPTVPCVALDHATEPLDLAC-DDIDDIDMRIDIERCISTITIR 205
gi 432875503 ref YP 004072874	COCVECTURE VECKUT THATTEL DI AC-DDI TOVI MALL TEDCARETERA 201
gi 160215 gb 222554 1	DIANDNANDNANDNANDNANDNANDNANDNANDNANDNAN
g1 100215 gD AAA25554.1	PARAFARITAN DEARAFARIAFARIAFARIAFARIAFARIAFARIAFARIAF
	L
	EREIVRDIKEKLCYVALDFEOEMOTAASSSALEKSYEHPDGOVITIGNER 167
g1 1269 /220 emb CAC28248.1	
gi 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPPGQVITIGNER 167
gi 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPPGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIPPGQVITIGNER 167
gi 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb [AAV69654.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYEIPDGQVITIGNER 167
gi 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP 001839365.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANOSSLEKSYELPOGQVITIGNER 254
gi 12097220 jemb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 [gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XT_001839365. gi 333228332 [gb ETD55881.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYEIPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIPDGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIPDGQVITIGNER 254
gi 12097220 jemb [CAC28248.1] gi 12697246 jemb [CAC28270.1] gi 209402327 jgb AC145913.1] gi 55982464 jgb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 jgb [EJD35981.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYELPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPDGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPDGQVITIGNER 254
g_i 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb EAD0494.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQENQTAAQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XE_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb EDR00494.1 gi 6636344 gb AAF20152.1 AF209	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPDGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYELPDGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPDGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPDGQVITIGNER 254 EREIVRDIKERLCYVALDFEQEMQTAAQSSALEKSYELPDGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAASSSLEKSYELPDGQVITIGNER 254
gi 12097220 jemb [CAC28248.1] gi 12697246 jemb [CAC28270.1] gi 209402327 jgb AC145913.1] gi 55982464 jgb AAV69654.1] gi 169865532 [ref XP_001839365. gi 393228332 jgb [EJD35981.1] gi 505756334 jgb [EOR00494.1] gi 6636344 jgb AAF20152.1 AF209 gi 194376310 dbj BAG62914.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEIQTASQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 161 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 161
g_i 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AN459654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb ANF20152.1 AF209 gi 194376310 db] BAC62914.1 gi 662897625 db] BAD96752.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 161 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 226 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 226 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 226
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XE_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb EDR00494.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAD96752.1 gi 62897625 db] BAD96752.1 gi 62897409 db] BAD9645.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 266 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 266 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 266 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254
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g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJJ35981.1 gi 505756334 gb AAF20152.1 AF209 gi 194376310 db BAD66752.1 gi 62897625 db]BAD96752.1 gi 62897409 db BAD96645.1 gi 14485767 gb AAK5074.1 gi 14487767 gb AAK2072.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XE_001839365. gi 393228332 gb EJD35981.1 gi 565756334 gb AAF20152.1 AF209 gi 194376310 db] BAD62914.1 gi 62897625 db] BAD96752.1 gi 22897409 db] BAD96752.1 gi 14485767 gb AAK63074.1 gi 10442727 gb AAK63074.1 gi 10442727 gb AAK6374.1 gi 10447274 gb AAK6374.1 gi 10447474 gb AAK64744744 gb AK644744 gb AK644744 gb AK644744 gb AK644744 gb A	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNER 254
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EOR00494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC962914.1] gi 62897625 db] BAD966752.1] gi 62897409 db] BAD96645.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAG17452.1] gi 158668333 gb ABW76683.1] gi 158668333 gb ABW76683.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQELQTANQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 354 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNE 3555555555555555555555555555555555555
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g_i 12697220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228322 gb EJD35981.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAC9662914.1 gi 62897625 db]BAD96752.1 gi 162897625 db]BAD96752.1 gi 10442727 gb AAC17452.1 gi 19688333 gb ABW76683.1 gi 499050836 ref XP_004575933. gi 187968772 gb ACD44579.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 30 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 30 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 30 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 30 EREIVRDIKEKLCYVALDFEQEMGTAASSSLEKSYELPOGQVITIGNER 30
g_i 12097220 emb [CAC28248.1] gi 12097246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EOR00494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAD662914.1] gi 62897409 db] BAD96645.1] gi 14485767 gb AAK63074.1] gi 158668333 gb ABW76683.1] gi 158668333 gb ABW76683.1] gi 187968772 gb AC04575933. gi 187968772 gb AC044579.1] gi 11191964 db] BAD8035.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALFEQEMATAASSSLEKSYELPOGQVITIGNE 254
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb EOR00494.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAD96672.1 gi 62897409 db BAD96645.1 gi 14485767 gb AAK63074.1 gi 10442727 gb AAK63074.1 gi 10442727 gb AAK63074.1 gi 188668333 gb ABW76683.1 gi 499050836 ref XP_004575933. gi 187968772 gb AC44579.1 gi 11191964 db]BAB18035.1 gi 311222955 gb ADP76556.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYEIPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIPOGQVITIGNER 254
g_i 12697220 emb [CAC28248.1] gi 12697246 [emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC62914.1] gi 62897625 db] BAD96645.1] gi 10442767 gb AAK63074.1] gi 10442777 gb AAK63074.1] gi 158668333 gb ABW76683.1] gi 1197968772 gb AC44579.1] gi 11191964 db] BAB18035.1] gi 311222955 gb ADF76556.1] gi 47497115 ref XP_004422896.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGVITIGNER 250
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb AAF20152.1 AF209 gi 194376310 db]BAD96752.1 gi 62897409 db]BAD96645.1 gi 12485767 gb AAK63074.1 gi 12482767 gb AAK63074.1 gi 128668333 gb ABW76683.1 gi 187968772 gb AC14752.1 gi 11966 db]BAD96645.1 gi 1191964 db]BABW76683.1 gi 1191954 db]BABW76556.1 gi 311222955 gb AD76556.1 gi 478497113 ref XP_00422896. gi 478497113 ref XP_00422896.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 164 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228322 gb EJD35981.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAC662914.1 gi 62897625 db BAD96752.1 gi 162897625 db BAD96752.1 gi 10442727 gb AAK63074.1 gi 10442727 gb AAK63074.1 gi 185668333 gb ABW76683.1 gi 187968772 gb AC44579.1 gi 11191964 db BAB18035.1 gi 31222955 gb ADF76556.1 gi 478497115 ref XP_004422896. gi 478497113 ref XP_004422895. gi 478497115 ref XP_004422895. gi 47849715	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYELPOGVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATAASSSLESSELPOGVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATAASSSLESSELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATAASSSLESSELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATAASSSLESSELFERVELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELFERVELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELFERVELPOGVITIGNER 252 EREIVRDVKEKLCYVALDFEQEMATASSSLESSELFERVELPOGVITIGN
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EAR600494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC6214.1] gi 62897625 db] BAD96652.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAK63074.1] gi 158668333 gb BW76683.1] gi 115968772 gb AC4757.1] gi 115976772 gb AC4757.1] gi 11191964 db] BAB18035.1] gi 311222955 gb ADF76556.1] gi 478497113 ref XP_00422895. gi 410948613 ref XP_00381025. gi 40936752 w w = 00200000000000000000000000000000000	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLEKSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKENCLYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKENCLYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKENCLYVALDFEQEMASASSSLERSYELPOGQVITIGNER 250 EREIVRDIKENCLY
g_i 12097220 emb CAC28248.1 gi 12697246 emb CAC28270.1 gi 209402327 gb AC145913.1 gi 55982464 gb AN459654.1 gi 55982464 gb AN459654.1 gi 55756334 gb ED35981.1 gi 505756334 gb ED35981.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db]BAD96645.1 gi 62897409 db]BAD96645.1 gi 14485767 gb AAK3074.1 gi 12482767 gb AAK3074.2 i 158668333 gb ABW76683.1 gi 158668333 gb ABW76683.1 gi 1199050836 ref XP_004575933. gi 1191964 db]BAD976556.1 gi 311222955 gb AD776556.1 gi 478497115 ref XP_00422896. gi 403267534 ref XP_003925881.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELP DGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELP DGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP DGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP DGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP DGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELP DGQVITIGNER 250 EREIVRDKEKLCYVALDFEQEMATAASSSLEKSYELP DGQVITIGNER 250 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 252 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMVSAATSSLERSYELP DGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMVSAASSLERSYELP DGQVITIGNER 255
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAD96752.1 gi 62897625 db] BAD96752.1 gi 10442727 gb AAK63074.1 gi 10442727 gb AAK63074.1 gi 19568333 gb ABW76683.1 gi 187968772 gb AC44579.1 gi 11191964 db] BAB18035.1 gi 311222955 gb AD76556.1 gi 478497113 ref XP_00422896. gi 478497113 ref XP_003925881. gi 40287534 ref XP_003925881. gi 40287534 ref XP_003925881. gi 402871595 ref XP_003925881. gi 402871595 ref XP_003925881. gi 402871595 ref XP_003981025. gi 402871595 ref XP_003989742.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATASSSLEKSYEIP OGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATASSSLEKSYEIP OGQVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255
g_i 12097220 emb [CAC28248.1] gi 12097246 [emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EOR00494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC62914.1] gi 62897409 db] BAD96645.1] gi 12487677 gb AAK63074.1] gi 10442727 gb AAC7452.1] gi 158668333 gb ABW76683.1] gi 187968772 gb AC04575933. gi 187968772 gb AC0457591] gi 311222955 gb AD76556.1] gi 478497113 ref XP_004422896. gi 410948613 ref XP_00381025. gi 402871595 ref XP_00398742. gi 505801926 ref XP_003899742. gi 505801926 ref XP_00480507. gi 50501926 ref XP_00480507. gi 50501926 ref XP_0048507. gi 50501926 ref	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELPOGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 256 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMGTAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLERSYELPOGQVITIGNE 250 EREIVRDIKEKLCYVALDFEQEMVAAASSSLERSYELPOGQVITIGNE 255 EREIVRDVKEKLCYVALDFEQEMVSAASSSLERSYELPOGQVITIGNE 255 EREIVRDVKEKLCYVALDFEQEMVSAASSSLERSYELPOGQVITIGNE 255 EREIVRDVKEKLCYVALDFEQEMVSAASSSLERSYELPOGQVITIGNE 255 EREIVRDVKEKLCYVALDFEQEMVSAASSLERSYELPOGQVITIGNE 255
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228322 gb EJD35981.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAD96752.1] gi 62897625 db BAD96752.1] gi 162897625 db BAD96752.1] gi 10442727 gb AAC3074.1] gi 10442727 gb AAC3074.1] gi 187668733 gb ABW76683.1] gi 187968772 gb AAC37452.1] gi 187968772 gb AAC4575933. gi 187968772 gb AD276556.1] gi 11191964 db BAB18035.1] gi 49905036 ref XP_004422896. gi 478497113 ref XP_004422895. gi 40287553 ref XP_003895742. gi 402871595 ref XP_003895742. gi 402871595 ref XP_003895742. gi 402871595 ref XP_004608507. gi 505801923 ref XP_004608507. gi 505801923 ref XP_00468507. gi 505801923 ref XP_00468507.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 162 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDVKEKLCYVALDFEQEMVSAATSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMVSAASSLERSYEIP OGQVITIGNER 255
g_i 12697220 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EAR60494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC6214.1] gi 62897625 db] BAD96652.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAK63074.1] gi 158668333 gb BW76683.1] gi 11191964 db] BAB96645.1] gi 11191964 db] BAB18035.1] gi 11122955 gb ADF76556.1] gi 478497113 ref XP_00422895. gi 403267534 ref XP_00381025. gi 403267534 ref XP_00389742. gi 505801926 ref XP_004608507. gi 505801923 ref XP_004608506. gi 889517 db AAF81173.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTANSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSSLEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDVKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVR
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g_i 12097220 emb [CAC28248.1] gi 12097246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505756334 gb EOR00494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC62914.1] gi 62897625 db] BAD96645.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAK17452.1] gi 158668333 gb ABW76683.1] gi 187968772 gb AC17452.1] gi 187668732 gb AC4759.1] gi 11191964 db] BAD976556.1] gi 478497113 ref XP_004422896. gi 478497113 ref XP_004422896. gi 403267554 ref XP_00381025. gi 403267554 ref XP_003981025. gi 403267554 ref XP_00398742. gi 505801926 ref XP_004608507. gi 505801923 ref XP_004608506. gi 8895917 gb AAF81173.1] gi 8895901 gb AAF81165.1]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 252 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMVSAATSSLERSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMVSAASSLERSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLERSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALD
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g_i 12097220 emb [CAC28248.1] gi 12097226 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 155982464 gb AAV69654.1] gi 1505756334 gb EJD35981.1] gi 505756334 gb EJD35981.1] gi 505756334 gb EOR00494.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAC9615.1] gi 62897625 db] BAD96645.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAC17452.1] gi 158668333 gb ABW76683.1] gi 11485767 gb AAC67475.1] gi 11191964 db] BAB96645.1] gi 11191964 db] BAB96655.1] gi 478497113 ref XP_004575933. gi 48797255 gb ACP76556.1] gi 478497113 ref XP_00422896. gi 410948613 ref XP_00381025. gi 403267134 ref XP_004608507. gi 505801926 ref XP_004608506. gi 8895917 gb AAF81173.1] gi 8895853 gb AAF81141.1] gi 8895873 gb AAF81165.1] gi 84873373 gb AAF81165.1] gi 44873373 gb AAF81165.1] gi 44873373 gb AAF81102.1] gi 303306184 gb AAR13014.1] gi 1703130 sp F53473.1 ACTB_ST gi 60391982 gb AAF8112.1.7] gi 60391982 gb AAF8112.1.7] gi 60391982 gb AAF8112.1.7] gi 44873373 gb AAF8112.1.7] gi 4405774534 gb AAF8112.1.7] gi 60391982 gb AAF8112.1.7] gi 60391982 gb AAF8112.1.7] gi 4405774534 gb AAF8112.1.7] gi 60391982 gb AAF8112.1.7] gi 4405774534 gb AAF8112.1.7] gi 405974534 gb AAF8112.1.7]	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIONER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIP OGQVITIONER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 178 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 250 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 250 EREIVRDIKEKLCYVALDFEQEMVSAATSSLERSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMVSAATSSLERSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 ————————————————————————————————————
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g_i 12697226 emb [CAC28248.1] gi 12697226 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 505766334 gb AAV69654.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db] BAD96645.1] gi 62897625 db] BAD96645.1] gi 16485767 gb AAK63074.1] gi 10442727 gb AAK617452.1] gi 10442727 gb AAK63074.1] gi 10442727 gb AAK63074.1] gi 11485767 gb AAK63074.1] gi 117968772 gb AC44579.1] gi 11191964 db] BAB96683.1] gi 311222955 gb AD76556.1] gi 478497113 ref XP_004422895. gi 40287553 ref XP_00381025. gi 40287534 ref XP_003925881. gi 40287534 ref XP_004608507. gi 505801923 ref XP_004608506. gi 8895917 gb AAF81173.1] gi 88959517 gb AAF81173.1] gi 156388857 ref XP_001634709. gi 5036184 gb AAF81165.1] gi 84873373 gb AAF81141.1] gi 8875951 gb AAF81141.1] gi 887373 gb AAF81141.1] gi 887373 gb AAF81141.1] gi 8473373 gb AAF81141.1] gi 8473373 gb AAF81141.1] gi 8473373 gb AAF81153.1] gi 170330 sp F53473.1 ACTB_ST gi 60391982 gb AAR1929.1] gi 13993880 gb AV76250.1] gi 13993880 gb AV76250.1] gi 187282496 ref XP_001119777.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 250 EREIVRDKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFE
g_i 12097220 emb [CAC28248.1] gi 12097226 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 155982464 gb AAV69654.1] gi 1505756334 gb EJD35981.1] gi 505756334 gb EJD35981.1] gi 505756334 gb EAP6014.1] gi 62897625 db] BAD96752.1] gi 62897625 db] BAD9665.1] gi 14485767 gb AAK63074.1] gi 10442727 gb AAC17452.1] gi 158668333 gb BW76683.1] gi 11485767 gb AAC479.1] gi 11191964 db] BAB96645.1] gi 11191964 db] BAB96655.1] gi 1119255 gb AC74757.1] gi 11122955 gb AC74575.1] gi 478497113 ref XP_004575933. gi 47097155 ref XP_00381025. gi 410948613 ref XP_00492896. gi 403267534 ref XP_003925881. gi 505801926 ref XP_004608507. gi 505801923 ref XP_004608507. gi 505801923 ref XP_004608506. gi 8895917 gb AAF81173.1] gi 8895893 gb AAF81174.1] gi 8895991 gb AAF81165.1] gi 44873373 gb AAF81165.1] gi 44873373 gb AAF81165.1] gi 44057454 gb AAF81165.1] gi 8487373 gb AAF81102.1] gi 105182 gb AAF8112.1] gi 10538857 ref XP_004534709. gi 60391922 gb AAF81165.1] gi 8495931 gb AAF81165.1] gi 8495931 gb AAF81165.1] gi 8495932 gb AAF81165.1] gi 30316184 gb AAR13014.1] gi 1703130 sp F53473.1 ACTB_ST gi 60391982 gb AAF812287.1] gi 157106887 ref XP_001634709. gi 16693629 db BA89429.1] gi 157106887 ref XP_001634709. gi 1672629 db BA89429.1] gi 1670649630. gi 1672649 gb AAF816550.1] gi 1676599 gb AAF816550.1] gi 167669629 gb AAF816550.1] gi 167669629 db BA896657650.1] gi 167669629 db BA896657650.1] gi 167669629 db BA896657650.1] gi 167676999 ref XP_002588007.1] gi 1676769999 ref XP_002588007.1] gi	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYEIP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIGNER 254
g_i 12097220 emb [CAC28248.1] gi 12097226 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1] gi 6636344 gb AAF0152.1 AF209 gi 194376310 db] BAD662914.1] gi 62897625 db] BAD96645.1] gi 162897625 db] BAD96645.1] gi 10442727 gb AAK17452.1] gi 10442727 gb AAK6374.1] gi 10442727 gb AAK6374.1] gi 18768772 gb AAK6375933. gi 187968772 gb AC44579.1] gi 311222955 gb ADP76556.1] gi 311222955 gb ADP76556.1] gi 478497113 ref XP_00422896. gi 478497113 ref XP_00422895. gi 400287534 ref XP_00422895. gi 40287535 ref XP_00422895. gi 40287535 ref XP_004608507. gi 505801923 ref XP_004608506. gi 8895917 gb AAF81173.1 gi 8895853 gb AAF81165.1 gi 8895957 gb AAF81141.1 gi 8895959 gb AAF81141.1 gi 8895951 gb AAF81165.1 gi 3176182 gb AAF81165.1 gi 3176182 gb AAF81165.1 gi 3176182 gb AAF81173.1 gi 1693629 db AAR3014.1 gi 1703130 gp 53473.1 ACTB_ST gi 6031982 gb AAR8429.1 gi 157166871 ref XP_001649530. gi 187282496 ref XP_001649530.	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITIONER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 256 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 30 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 30 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 30 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 30 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 30 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMASAATSSLERSYEIP OGQVITIONER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITIONER 255 EREIVRDIKEKLC
g_i 12697226 emb [CAC28270.1] gi 209402327 gb AC145913.1 gi 55982464 gb AAV69654.1 gi 169865532 ref XP_001839365. gi 393228332 gb EJD35981.1 gi 505756334 gb EAD63941.1 gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAD96645.1 gi 62897625 db BAD96752.1 gi 62897625 db BAD96645.1 gi 14485767 gb AAK63074.1 gi 10442727 gb AAG17452.1 gi 158668333 gb BW76683.1 gi 11485767 gb AAC64579.1 gi 11191964 db BAB18035.1 gi 1122955 gb ADF76556.1 gi 478497113 ref XP_004422895. gi 403267534 ref XP_004422895. gi 403267534 ref XP_00381025. gi 403267534 ref XP_004608506. gi 8895917 gb AAF81173.1 gi 8895803 gb AAF81141.1 gi 8895917 gb AAF81165.1 gi 8895951 gb AAF81165.1 gi 8895951 gb AAF81165.1 gi 8895951 gb AAF81165.1 gi 8176182 gb AAF81164.1 gi 8176182 gb AAF81165.1 gi 60319282 gb AAF81165.1 gi 8176182 gb AAF81165.1 gi 1703130 sp P53473.1 ACTB_ST gi 60391982 gb AAF8112.1 gi 1703130 sp P53473.1 ACTB_ST gi 60391982 gb AAF8112.1 gi 157106877 ref XP_001119777. gi 260785919 ref XP_001119777. gi 260785919 ref XP_001119777. gi 260785919 ref XP_00172874.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYELP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAASSSALEKSYELP OGQVITIGNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYELP OGQVITIGNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELP OGQVITIGNER 252 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELP OGQVITIGNER 252 EREIVRDIKEKLCYVALDFEQEMVSAATSSLERSYELP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMVSAATSSLERSYELP OGQVITIGNER 255 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYELP OGQVITIGNER 255 EREIV
g_i 12697226 emb [CAC28248.1] gi 12697246 emb [CAC28270.1] gi 209402327 gb AC145913.1] gi 55982464 gb AAV69654.1] gi 169865532 ref XP_001839365. gi 393228322 gb EJD35981.1] gi 6636344 gb AAF20152.1 AF209 gi 194376310 db BAD96752.1] gi 62897625 db BAD96752.1] gi 162897625 db BAD96752.1] gi 10442727 gb AAC6374.1] gi 10442727 gb AAF3074.1] gi 10442727 gb AAF3074.1] gi 1990836 ref XP_004575933. gi 187968772 gb AC44579.1] gi 11191964 db BAB18035.1] gi 31222955 gb ADP76556.1] gi 478497115 ref XP_004422896. gi 478497113 ref XP_004422895. gi 402871595 ref XP_004422895. gi 402871595 ref XP_004422895. gi 402871595 ref XP_004608507. gi 505801923 ref XP_004608506. gi 8895917 gb AAF81173.1] gi 8895853 gb AAF81173.1] gi 8895991 gb AAF81173.1] gi 8895991 gb AAF81173.1] gi 8895795 gb AAF81173.1] gi 8895795 gb AAF81173.1] gi 8895795 gb AAF81173.1] gi 156388857 ref XP_001634709. gi 6031082 gb AAF8112.1] gi 16031082 gb AAF8112.1] gi 16031982 gb AAF8112.1] gi 16031982 gb AAF8112.1] gi 16031982 gb AAF8127.1] gi 16031982 gb AAF815.1] gi 157106887 ref XP_001634709. gi 187282496 ref NP_001119777. gi 432875503 ref XP_004072874.] gi 160215 gb AAA29554.1	EREIVRDIKEKLCYVALDFEQEMQTAVSSSALEKSYEIP OGQVITICNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSALEKSYEIP OGQVITICNER 167 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITICNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITICNER 254 EREIVRDIKEKLCYVALDFEQEMQTAAQSSLEKSYEIP OGQVITICNER 254 EREIVRDIKEKLCYVALDFEQEMATAASSSLEKSYEIP OGQVITICNER 254

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gi 1	2697220 emb CAC28248.1	FRAPEALFQ	SLLGL	EGVGI	HETTE	SIKKGDVDI	RRDLYGNIVMSC	214
gi 1	2697246 emb CAC28270.1	FRAPEALFQ	SFIGL	ESVGI	HETTEN	SIMKGDVDI	RRDLYGNIVMSC	214
gi 2	209402327 gb ACI45913.1	FRAPEALFQ	FLLGL	EAVGV	HETTY	SIMKGDVDI	RRDLYGNIVMSC	214
gi 1	69865532 ref XP 001839365	FRAPEALFO	FLGL	FAAGT	HETTY	STEKCOLDT	REDLYGNVVLSO	301
gi 3	93228332 gb EJD35981.1	FRAPEALFO	SFLGL	EASGI	HETTY	SIFKCDLDI	RRDLYGNVVLSO	301
gi 5	05756334 gb EOR00494.1	FRAPEGLFK	SLLGL	EAAGI	HETTY	SIMKCDLDI	RKDLYGNVVMSC	301
gi 6	636344 gb AAF20152.1 AF209	FRCPEALFQ	SFLGM	ESCGI	HETTE	SIMKCDVDI	RKDLYANTVLSC	208
gi 1	94376310 dbj BAG62914.1	FRCPEALFQ	SFLGM	ESCGI	HETTEN	SIMKCDVDI	RKDLYANTVLSC	273
gi 6	2897625 dbj BAD96752.1	FRCPEALFQ	SFLGM	ESCGI	HETTFI	SIMKCDVDI	RKDLYANTVLSC	301
g1 0	4485767 ab aak63074.1	FRCPEALFQ	SFLGM	ESCGI	HETTER	SIMKCOVDI	REDIVANTVLSC	225
gi 1	.0442727 gb AAG17452.1	FRCPEALFO	SFLGM	ESCGI	HETTEN	SIMKCDVDI	RKDLYANTVLSO	301
gi 1	58668333 gb ABW76683.1	FRCPEALFO	SFLGM	ESCGI	HETTE	SIMKCDVDI	RKDLYANTVLSC	77
gi 4	99050836 ref XP_004575933.	FRCPEALFQ	SFLGM	ESAGI	HETTY	SIMKCDVDI	RKDLYANTVLSC	301
gi 1	87968772 gb ACD44579.1	FRCPEALFQ	SFLGM	ESCGI	HETTY	SIMKCDVDI	RKDLYANTVLSC	209
g1 1	11222955 ab app76556 1	FRCPEALFQ	SFLGM	ESCGI	HETTER	SIMKCDVDI	REDLYANTVLSC	238
gi 4	78497115 ref XP 004422896.	FRCPEAIFO	SFLGI	ESNGI	HETTEN	SIMKCDVDI	REDLYANTVLSC	257
gi 4	78497113 ref XP_004422895.	FRCPEAIFQ	SFLGI	ESNGI	HETTEN	SIMKCDVDI	RKDLYANTVLSC	299
gi 4	10948613 ref XP_003981025.	FRCPESIFQ	SFLGI	ESSGI	HETTE	SIMKCDVDI	RKDLYANTVLSC	302
gi 4	03267534 ref XP_003925881.	FRCPEAIFQ	SFLGI	ESSGI	HETTEN	SIMKCDVDI	RKDLYANTVLSC	302
g1 4	02871595 ref XP_003899742.	FRCPEAIFQ	SFLGI	ESSGI	HETTPI	SIMKCDVDI	REDLYANTVLSC	302
gils	05801928 ref XP_004608507.	FRCPEATFO	SFLGT	ESSGI	HEATEN	STMKCDVDI	REDLYANTVLSC	302
gi 8	895917 qb AAF81173.1	FRAPEATFO	SFLGM	ESVGI	HETTY	SIMKCDVDI	RKDLYANTVLSO	212
gi 8	895853 gb AAF81141.1	FRCPESLFQ	SFLGM	ESAGI	HETTY	SIMKCDVDI	RKDLYANTVLSO	212
gi 8	895901 gb AAF81165.1	FRCPESLFQ	SFLGM	ESAGI	HETTY	SIMKCDVDI	RKDLYANTVLSC	212
gi 8	895795 gb AAF81112.1	FRSPESMFQ	SFLGM	ESSGI	HETTY	SIMKCDVDI	RKDLYANTVLSC	212
gila	1973373 ab ABC67746 1	FRCPEAMFQ	SFLGM	ESAGI	HETCY	SIMKCDVDI	REDLYANTVLSC	67
gi 3	03306184 gb ADM13664.1	FRAPEAMFO	SFLGM	ESAGI	HETTY	SIMKCDVDI	RKDLYANTVLSC	302
gi 3	8176182 gb AAR13014.1	FRAPEAMFO	SFLGM	ESAGI	HETTY	SIMKCDVDI	RKDLYATTVLSC	302
gi 1	703130 sp P53473.1 ACTB_ST	FRCPEALFQ	AFLGM	ESAGI	HETCY	SIMKCDVDI	RKDLYANTVLSC	302
gi 6	0391982 gb AAX19287.1	FRCPEALFQ	SFLGM	ESAGI	HETTYN	SIMKCDVDI	RKDLYANTVLSC	301
g1 4	05974534 gD EKC39169.1	FRCPEALFQ	SFLGM	ESSGI	HETTY	SIMKCDVDI	REDLYANTVLSC	302
gi 3	19893880 gb ADV76250.1	FRCPETLFO	SFIGM	ESAGU	HETTER	STMKCDVDI	REDLYANTVLSC	301
gi 1	57106887 ref XP_001649530.	FRCPESLFQ	SFLGM	ESCGI	HETVY	SIMKCDVDI	RKDLYANIVMSC	302
gi 1	87282496 ref NP_001119777.	FRCPETLFQ	PAFIGM	ESAGI	HETTY	SIMKCDIDI	RKDLYANTVLSC	302
gi 2	260785919 ref XP_002588007.	FRCPETLFQ	SFIGM	ESVGI	HELTY	SIMKCDIDI	RKDLYANTVLSC	301
g1 4 g1 1	328/3303 [Ter AP_0040/28/4.	PRCPEADPQ	PLTOT.		P. P	STUVCHADT	HENLIANNYLSU	290
and the second sec	.60215 gb AAA29554.1	PNANPNANPNAN	NANPN	KNNOG	NGOGH	MPNDPNRNV	DENANANNAVKN	350
2414	.60215 gb AAA29554.1	PNANPNANPNAN	NANPN	KNNQG 1	NGQGH	MPNDPNRNV	DENANANNAVKN	350
	60215 gb AAA29554.1	PNANPNANPNAN	NANPN	KNNQG 1	SNGQGH	MPNDPNRNV	DENANANNAVKN	350
	60215 gb AAA29554.1	PNANPNANPNAN	NANPN		NGQGH1	MPNDPNRNV	DENANANNAVKN	350
gi	60215 gb AAA29554.1 12697220 emb CAC28248.1	PNANPNANPNAN	ADRMO	KNNQG	IAPSSM	MPNDPNRNV	DENANANNAVKN	350
gi gi	60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1	PNANPNANPNAN :::: GTTMYPGI GTTMYPGI	ADRMO	KNNQG	IAPSSM	MPNDPNRNV KIKIVAP KIKIVAP	DENANANNAVKN .:	sv 25 sv 25
gi gi gi	60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 559826441	PNANPNANPNAN GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI	ADRMO ADRMO ADRMO	KNNQG : CEITA CEITA CEITA	IAPSSM IAPSSM IAPSSM	MPNDPNRNV . : :: KIKIVAP KVEIVAP	DENANANNAVKN .:	SV 25 SV 25 SV 25 SV 25
gi gi gi gi	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref L × D01833355.	PNANPNANPNAN GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI GTTMFSGI	ADRMQ ADRMQ ADRMQ SDRMQ ADRMQ	KNNQG : CEITA CEITA CEITA CEITA	IAPSSM IAPSSM IAPSSM IAPSSM IAPSSM	MPNDPNRNV . : :: KIKIVAP KVEIVAP KVKIIAP KVKIIAP	DENANANNAVKN .:i PERK3 PERK3 PE	SV 25 SV 25 SV 25 SV 25 SV 25 SV 25
gi gi gi gi gi gi	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 zef XP_001839365. 393228332 db EJJ35981.1	PNANPNANPNAN 	ADRMO ADRMO ADRMO SDRMO ADRMO ADRMO	KNNQG : CEITA CEITA CEITA CEITA CELLA CELLA	LAPSSM LAPSSM LAPSSM LAPSSM LAPSSM LSPSSM	MPNDPNRNV . : :: KIKIVAP KVEIVAP KVEIVAP KVKIIAP KVKIVAP	DENANANNAVKN .:i PERK3 PERK3 PE	SV 25 SV 25 SV 25 SV 25 SV 25 SV 25 SV 25 SV 33 SV 33
gi gi gi gi gi gi gi	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC45913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb ED0394.1	PNANPNANPNAN : : : GTTMYPGI GTTMYPGI GTTMYPGI GTTMFSGI GTTMYFGI GTTMYPGI GTTMYHGI	ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ PDRMQ	KNNQG : CEITA CEITA CEITA CELTA CELTS CELTG	IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPASM ISPSSV IAPSSM	KIKIVAP KIKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP	DENANANNAVKN .: .: .: 	SV 25 SV 25 SV 25 SV 25 SV 25 SV 25 SV 33 SV 33 SV 33
gi gi gi gi gi gi gi gi	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 39322832 gb EJJ35981.1 505756334 gb DaC00494.1 6636344 gb AAF20152.1 AF209	PNANPNANPNAN : : : GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI GTTMYPGI	ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ	KNNQG EITA EITA EITA ELTA ELTA ELTA EITA	IAPSSM IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPSSM IAPSSM IAPSSM	MPNDPNRNV . : :: KIKIVAP KIKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP	DENANANNAVK) .: 	SV 25 SV 25 SV 25 SV 25 SV 25 SV 25 SV 33 SV 33 SV 33 SV 33 SV 24
gi gi gi gi gi gi gi gi gi	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP 001839365. 393228332 gb EJJ35981.1 505756334 gb ERC00494.1 6636344 gb AR720152.1 AF209 194376310 db BAG62914.1 COMPGED b b AF20152.2	PNANPNANPNAN CTTMYPG	ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ ADRMQ	KNNQG EITA EITA EITA ELTA ELTS ELTA EITA	IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPASM IAPSSM IAPSSM IAPSTM	MPNDPNRNV . : :: KIKIVAP KVEIVAP KVKIVAP KVKIVAP KVKIVAP KIKIIAP KIKIIAP	DENANANNAVKI .: 	SV 25 SV 25 SV 25 SV 25 SV 25 SV 33 SV 33 SV 33 SV 34 SV 31 SV 31
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gil gil gil gil gil gil gil gil gil gil	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJJ35981.1 505756334 gb EOR00494.1 6636344 gb AA720152.1 AF209 194376310 db]BAD66251.1 14485767 gb AA63074.1 10442727 gb AA63074.1 10442777 gb AA63074.1 10442777 gb AA617452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC4579.1 11191964 db] BAD8755.1 311222955 gb AD76556.1 478497113 ref XP_004422895. 410946613 ref XP_004422895. 403267534 ref XP_003890742. 505801926 ref XP_004680507. 505801925 ref XP_004680507. 505801925 ref XP_004680506. 8895917 gb AAF81173.1 895503 gb AAF81142.1 1895503 gb AAF81112.1 1895503 gb AAF81112.1	PNANPNANPNAN PNANPNANPNAN GTTMYPG	ADRMO ADRMO	KINNGG SITA SITA SITA SITA SITA SITA SITA SITA	IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPASM ISPASM ISPASM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM IAPSTM	MPNDPNRNV i i i MIKIKIVAP KKIKIVAP KKIKIVAP KVKIVAP KVKIVAP KVKIVAP KIKIIAP KIKIAP-	DENANANNAVK3 .:: . 	rsv 25 rsv 33 rsv 34 rsv 34 rsv 34 rsv 35 rsv 36 rsv 37 rsv 38 rsv 38 rsv 33 rsv 34 rsv 33 rsv 34 rsv 34 rsv 34 rsv 34 rsv 34 rsv 34 rsv 35 rsv 34 rsv 35 rsv 35 rsv 35 rsv 35 rsv 35 rsv 35
gi gi gi gi gi gi gi gi gi gi gi gi gi g	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EX000494.1 6636344 gb AAP20152.1 AF209 194376310 db]BAG62914.1 62897409 db]BAD96752.1 62897409 db]BAD96752.1 14485767 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC14579.1 11191964 db]BAD8055.1] 311222955 gb AD76556.1 478497113 ref XP_004422895. 40367534 ref XP_004422895. 40367534 ref XP_00480507. 505801923 ref XP_004608507. 505801923 ref XP_004608506. 8895917 gb AAF81141.1 8895961 gb AAF81142.1 15388887 ref XP_001634709. 4021754 ref XP_001634709.	PNANPNANPNAN PNANPNANPNAN CTTMYPG	ADRING ADRING SDRMQ SDRMQ SDRMQ SDRMQ ADRM	KINNGG EITA GITA GITA GITA GITA GITA GITA GITA G	NOQGH IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPASM ISPASM IAPSTM	KINDAPNENU KIKIVAP KIKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP KIKIIAP KIKIAP	DENANANNAVK3 .:	r 350 rsv 25 rsv 23 rsv 33 rsv 34 rsv 34 rsv 34 rsv 34 rsv 35 rsv 35 rsv 35 rsv 35 rsv 35 rsv 35 rsv 35 <
gi gi gi gi gi gi gi gi gi gi gi gi gi g	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 39322832 gb EJD35981.1 505756334 gb BAD96752.1 6636344 gb AAF20152.1 AF209 14376310 db BAD9645.1 14485767 gb AAK3074.1 10442727 gb AAC1452.1 158668333 gb ABW76563.1 14485767 gb AAC3074.1 1191964 db BAB18035.1 311222955 gb AD76556.1 478497115 ref XP_004422895. 410948613 ref XP_004422895. 410948613 ref XP_004422895. 410948613 ref XP_004422895. 403267534 ref XP_004422895. 403267534 ref XP_004422895. 403267534 ref XP_004422895. 403267534 ref XP_004608507. 505801923 ref XP_004608507. 505801924 ref XP_004608507. 505801923 ref XP_004608507. 505801924 ref XP_004608507. 505801924 ref XP_004608507. 505801924 ref XP	PNANPNANPNAN PNANPNANPNAN CTMYPG	ADRMO ADRMO SDRMO SDRMO SDRMO SDRMO DADRMO ADRMO	KINNGG SITA SITA SITA SITA SITA SITA SITA SITA	IAPSSM IA	KINDERSE KINDER	DENANANNAVK3 .:: . 	I 350 I <t< td=""></t<>
gii gii gii gii gii gii gii gii gii gii	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 39322832 gb EJD35981.1 505756334 gb EXD35981.1 505756334 gb AAP20152.1 AF209 194376310 db]BAD9645.1 14485767 gb AAC1452.1 162897409 db]BAD9645.1 14485767 gb AAC1452.1 158668333 gb ABW76683.1 499050836 ref XP_00442895.4 11191964 db]BAB18035.1 311222955 gb ADP76556.1 478497113 ref XP_004422895.4 40287534 ref XP_003991025. 505801923 ref XP_004608507. 505801923 ref XP_004608507	PNANPNANPNAN PNANPNANPNAN GTTMYPG	ADRMO ADRMO SDRMO SDRMO SDRMO SDRMO DRMO DRMO AD	RINNOG EITA GITA GITA GITA GITA GITA GITA GITA G	IAPSSM IAPSSM IAPSSM IAPSSM ISPASE ISPASE ISPASE ISPASE IAPSTM IA	KINIVAP KIKIKIVAP KIKIKIVAP KIKIKIVAP KIVKIVAP KIVKIVAP KIVKIVAP KIVKIVAP KIVKIVAP KIVAIAP KIKIIAP	DENANANNAVK3 .:	rsv 25 rsv 24 rsv 33 rsv 33 rsv 33 rsv 33 rsv 33 rsv 33 rsv 34 rsv 35 rsv 35 rsv 35 rsv 34 rsv 34 rsv 34 rsv 34 rsv 34
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gii gii gii gii gii gii gii gii gii gii	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJJ35981.1 505756334 gb EX000494.1 6636344 gb AAP20152.1 AF209 194376310 db]BAG62914.1 62897409 db]BAD96752.1 62897409 db]BAD96752.1 14485767 gb AAC3074.1 10442727 gb AAC1452.1 158668333 gb ABW765681.1 478497115 gb AAC14579.1 11191964 db]BAD8645.1 311222955 gb ADP76556.1 478497115 ref XP_004422895. 40367534 ref XP_003951025. 10948613 ref XP_003951025. 10948613 ref XP_00395881. 402871595 ref XP_00395881. 402871595 ref XP_004608507. 50581922]ref XP_004608507. 50581922]ref XP_004608507. 50581925 ref XP_003925881.4007. 40287159 ref XP_004608507. 50581925 ref XP_003925881.4007.5081.4007.5081.4008507. 50581925 ref XP_004608507. 50581925 ref XP_004608507. 50581925 ref XP_003925881.4007.5081.4007.5081.4008507. 50581925 ref XP_004608507.5081.4007.5081.4007.5081.4008507.508097.5081.4008507.5081.4008507.5081.4008507.508	PNANPNANPNAN PNANPNANPNAN CTTMYPG	ADRMO ADRMO SDRMO SDRMO SDRMO SDRMO SDRMO ADRMO	RINNGG EITA GEITA	NOGGH IAPSSN IAPSSN IAPSSN IAPSSN IAPSSN IAPSSN IAPSSN IAPSSN IAPSTN IAP	KINDAPNENU KIKIVAP KIKIVAP KIKIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP KIKIIAP KIKIAP KIKIAP KIKIIAP KIKIAP KI	DENANANNAVK3 .:: . 	I 350 ISV 25 ISV 33 ISV 33 ISV 33 ISV 33 ISV 33 ISV 35 ISV 33 ISV 35 ISV 33 ISV 33 ISV 33 ISV 33 ISV 35 ISV 34 ISV 35 ISV 35 ISV 34 ISV 34 <
gii gii gii gii gii gii gii gii gii gii	.60215 gb AAA29554.1 12697220 emb CAC28248.1 12697246 emb CAC28270.1 209402327 gb AC145913.1 55982464 gb AAV69654.1 169865532 ref XP_001839365. 393228332 gb EJD35981.1 505756334 gb EX000494.1 6636344 gb AAP20152.1 AF209 194376310 db]BAG62914.1 62897409 db]BAD6645.1 14485767 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC14579.1 11191964 db]BAD8055.1 31122955 gb AD76556.1 478497113 ref XP_004422895. 40346734 ref XP_00482057. 505801923 ref XP_0048285. 40346734 ref XP_0048285. 40346734 ref XP_0048285. 40346734 ref XP_0048285. 403467354 ref XP_004808507. 505801923 ref XP_004608507. 505801923 r	PNANPNANPNAN PNANPNANPNAN CTMYPG-I GTTMYPGI GTTMPFGI GTTM	ADRING ADRING SDRMQ SDRMQ SDRMQ SDRMQ ADRMQ PDRMQ ADRM	KINNGG EITA GEITA	IAPSSM IAPSSM IAPSSM IAPSSM ISPASM ISPASM ISPASM ISPASM ISPASM IAPSTM IA	KINDADNENN KINIVAP KINIVAP KINIVAP KVKIVAP KVKIVAP KVKIVAP KVKIVAP KINIAP KIN	DENANANNAVK3 .:: . 	I 350 I <t< td=""></t<>

gi 405974534 gb [EKC39169.1] gi 6693629 [db] BAA89429.1] gi 319893880 gb [ADV76250.1] gi 157106887 ref [XP_001649530. gi 187282496 ref [XP_001549530. gi 260785919 ref [XP_002588007. gi 432875503 ref [XP_004072874. gi 160215 gb [AAA29554.1]

GTTMYPGIADRMQ	ĸ	EITZ	I	APSSMKIKIVAPPERKYSV	252
GTTMYPGIADRMQ	ĸ	EITZ	I	APSSMKIKIVAPPERKYSV	252
GTTMYPGIADRMQ	ĸ	EITZ	I	APSSMKVEIVAPPERKYSV	252
GTTMYPGISDRMQ	ĸ	EVTA	I	APSSMKVKIIAPPERKYSV	252
GTTMFSGIADRMQ	ĸ	ELL	I	SPASMRVKIVAPLERKYSV	339
GTTMYPGIADRMQ	ĸ	ELTS	I	SPSSVKVKIVAPPERKYSV	339
GTTMYHGIPDRMQ	ĸ	ELTC	I	APSSMKVKIVAPPERKYSV	339
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	246
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	311
GTTMYPGIADRMF	R	EITZ	I	APSTMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	263
GTTMYPGIADRMQ	ĸ	EITS	I	VPSTMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	ĸ	EITZ	I	APTTMKIKI	105
GTTMYPGIADRMQ	ĸ	EITZ	I	APPTMKIKVCYLDLLS-SPRAALQEFVE	347
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAP	240
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	276
GTTMYPGIADRMQ	ĸ	EITZ	I	APSTMKIKIIAPPERKYSV	335
GSTMYPGIADRMQ	ĸ	EIVI	I	APGTMKIKIIAPPERKYSV	295
GSTMYPGIADRMQ	ĸ	EIVI	I	APGTMKIKIIAPPERKYSV	337
GSTMYPGIADRMQ	ĸ	EIVI	I	APSTMKIKIIAPPERKYSV	340
GSTMYPGIADRMQ	ĸ	EIIT	I	APSNMKIKIIAPPERKYSV	340
GSTMYPGIADRMQ	ĸ	EIIT	I	APSTMKIKIIAPPERKYSV	340
GSTMYPGIADRMQ	ĸ	EIVI	I	APGTMKIKIIAPPERKYSV	298
GSTMYPGIADRMQ	ĸ	EIVI	I	APGTMKIKIIAPPERKYSV	340
GSTMFPGIADRMQ	ĸ	EISS	I	APPTMKIKIIAPPERKYSV	250
GTTMFPGIADRMQ	K	EIIS	I	APSTIKVKIIAPPERKYSV	250
GTTMFPGIADRMQ	K	EITS	I	APSTMKIKIIAPPERKYSV	250
GTTMFPGIADRMQ	K	EITS	I	APTTMKIKIIAPPERKYSV	250
GSTMYPGIADRMQ	K	EITS	I	APPTMKIKIIAPPERKYSV	339
GSTMYPGIADRMQ	K	EIAN	Ι	APPTMKIKIIAPPERKYSV	105
GSTMFPGIADRMQ	K	EITA	I	APPTMKIKIIAPPERKYSV	340
GSTMFPGIAARMQ	K	EITA	I	APPTMKIKIIAPPERKYSV	340
GSTMFPGIADRMQ	K	EITZ	I	APPTMKIKIIAPPERKYSV	340
GTTMFPGIADRMQ	K	EITZ	I	APATMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	K	EITS	I	APQTMKIKVIAPPERKYSV	340
GTTMYPGIADRMQ	K	EITZ	I	APPTMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	K	EITZ	I	APPTMKIKIIAPPERKYSV	339
GTTMYPGIADRMQ	k	EITZ	I	APSTIKIKIIAPPERKYSV	340
GTSMYPGIADRMQ	k	EITZ	I	APSSVKIKIIAPPERKYSV	340
GTSMFPGIADRMQ	k	EITZ	I	APSTMKIKIIAPPERKYSV	339
GTTMLSGLADRMQ	K	EITZ	I	APPTMNIDISAPPDRKYSV	336
NNNEEPSDKHIEQYLE	K	IQNS	I	STEWSPCSVTCGNGIQVRI	391
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gi			
-	12697220 emb CAC28248.1	WIGGSILASLSTFOOMW	269
ail	12697246 emb CAC28270.1	WTGGSTLASLSTFOOMW	269
ai	209402327 gb ACT45913.1	WIGGSTLASLSTFOOMW	269
ai	55982464 gb AAV69654.1	WIGGSTLASLSTFOOMWISKOEYDESGPSTV	283
g1	169865532 rof VP 001839365	WTCCS	375
91	202220222 ab = TD25001 1	WIGGSTINSISTIQUENCENCENDESC DOTUNDACE	275
91	555226552 gb E5055561.1	WIGGSILASLSIPQALACSAGEIDESGFGIVHAACF	375
91	505756554 gb E0R00454.1	WIGGSILASLSTFQQMWISKQEIDESGFSIVHKKCF	3/5
g1	0030344 gb AAF 20152 . 1 AF 209	WIGGSILASLSTF QQAWI	204
gı	1943/6310 [db] BAG62914.1	WIGGSILASLSTFQQMWISKQEYDESGPSIVHKKCF	347
gı	62897625 dbj BAD96752.1	WIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF	375
gı	62897409 dbj BAD96645.1	WIGGSVLASLSTFQQMWISKQEYDESGPSIVHRKCF	375
gi	14485767 gb AAK63074.1	WIGGSILASLSTFQQMWI	281
gi	10442727 gb AAG17452.1	WIGGSILASLSTFQQMWVSKQEYDESGPSIVHRKCF	375
gi	158668333 gb ABW76683.1		
gi	499050836 ref XP_004575933.	WCDSSTLELNVSNTKEMVVTPLTLFTLHFNGSPLGGASAAFPAGLRRRRS	397
gi	187968772 gb ACD44579.1		
qi	11191964 dbi BAB18035.1	WIGGSILASL	286
ai	311222955 gb ADP76556.1	WIGGSTLASLSTFOOMWI	353
ai	478497115 ref XP 004422896	WTGGSTLASLSTFOOMWTSKOEVDEAGPPTAHRKCF	331
gi	478497113 ref XP 004422895	WTGGSTLASLSTFOOMWTSKOEVDEAGPPTAHRKCF	373
91	410949613 rof VP 003991025	WTCCC	376
91	403367534 mof VD 003035881	WIGGSIDASDSTFQQMWISKQEIDEAGFFIVHKKCF	376
91	403267534 [fer AP_003925881.	WIGGSPPIVHRKCP	370
gı	4028/1595 ref XP_003899/42.	WIGGSPPIVHRKCF	3/6
gı	505801926 ref XP_004608507.	WIGGSILASLSTFQQMWISKQEYDEAGPPIVHRKCF	334
gi	505801923 ref XP_004608506.	WIGGSILASLSTFQQMWISKQEYDEAGPPIVHRKCF	376
gi	8895917 gb AAF81173.1	WIGGSILASLS	261
gi	8895853 gb AAF81141.1	WIGGSILASLS	261
gi	8895901 gb AAF81165.1	WIGGSILASLS	261
gi	8895795 gb AAF81112.1	WIGGSILASLS	261
qi	156388857 ref XP 001634709.	WIGGSILASLSTFOOMWISKOEYDESGPSIVHRKCF	375
ai	84873373 gb ABC67746.1	WIGGSILASLSTFOOMWISKOEYDESGPS	134
ai	303306184 gb ADM13664.1	WTGGSTLASLSTFOOMWTSKOEYDESGPSTVHRKCF	376
ai	38176182 mb AAR13014.1	WTGGSTLAST.STFOOMWTSKOEVDESGPSTVRPKCF	376
91	1703130 en 1953473 1 acma em	CTCCSTIASISTEOOWTSKOEVDESCBSTURDKCE	376
91	60301002 ab aav10207 1	WTCCC	375
91	405074524 ab mr 20160 1	WIGGSIDASEST QUARTERQEIDESG-PSIVIERACE	375
g1	405974534 gD EKC39169.1	WIGGSPSIVHRKCF	376
gı	6693629 db] BAA89429.1	WIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF	3/5
gı	319893880 gb ADV /6250.1	WIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF	375
gi	157106887 ref XP_001649530.	WIGGSILASLSTFQQMWISKQEYDESGPGIVHRKCF	376
gi	187282496 ref NP_001119777.	WIGGSILASLSTFQQMWISKQEYXXSGASIVHRKCF	376
gi	260785919 ref XP_002588007.	WIGGSILGSLSTFQQMWISKQEYDESGPSIVHRKCF	375
gi	432875503 ref XP_004072874.	WLGGSIMASLPTFQQMWISKQEYEESGPGIVHRKCD	372
gi	160215 gb AAA29554.1	KPGSADKPKDQLDYENDIEKKICKMEKCSSVFNVVNSSIGLIMVLSFLFL	441
gi gi	12697220 emb CAC28248.1		
gi	200402327 ab ACT45013 1		
91	209402527 gb AC145915.1		
gı	55982464 gb AAV69654 . 1		
gi	169865532 ref XP_001839365.		
gi	393228332 gb EJD35981.1		
gi	505756334 gb EOR00494.1		
gi			
	6636344 gb AAF20152.1 AF209		
ai	6636344 gb AAF20152.1 AF209		
gi	6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1		
gi gi	6636344 gb AAF20152.1 AF209 194376310 dbj BAG62914.1 62897625 dbj BAD96752.1		
gi gi	6636344 gb AAF20152.1 AF209 194376310 dbj BAG62914.1 62897625 dbj BAD96752.1 62897409 dbj BAD96645.1		
gi gi gi	6636344 gb AAF20152.1 AF209 194376310 db BAG62914.1 62897625 db BAD96752.1 62897409 db BAD96645.1 14485767 gb AAK63074.1		
gi gi gi gi	6636344 gb AAF20152.1 AF209 194376310 db] BAG62914.1 [62897625 db] BAD96752.1 62897409 db] BAD96645.1 14485767 gb AAK63074.1 10442727 gb AAG17452.1		
gi gi gi gi gi	6636344 gb AAF20152.1 AF209 194376310 db] BAG62914.1 62897625 db] BAD96752.1 62897409 db] BAD9645.1 14485767 gb AAR63074.1 10442727 gb AAG17452.1 158668333 qb ABW76683.1		
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gi gi gi gi gi gi gi gi	16636344 [gb] AAF20152.1 [AF209 194376310 [db] BAC62914.1 [62897625 [db] BAD96752.1 [62897409 [db] BAD96645.1 [14485767 [gb] AAR617452.1 [10442727 [gb] AAR617452.1 [15866333 [gb] ABW76683.1 [499050836 [ref [XF_004575933. 187966772 [gb] AAC04579.1 [11191964 [db] BAB18035.1 [311222955 [gb] ADP76556.1 [
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gi gi gi gi gi gi gi gi gi gi	<pre>[6636344 gb AAF20152.1 AF209]94376310 db] BAG62914.1 62897625 db] BAD96752.1 62897409 db] BAD96752.1 14485767 gb AAR63074.1 15866833 gb ABW76683.1 499050036 ref XP_004575933. 187968772 gb ACD44579.1 11191964 db] BAB18035.1 311222955 gb ADF76556.1 478497113 ref XP_004422896.</pre>		
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91 91 91 91 91 91 91 91 91 91 91	6636344 gb AAF20152.1 AF209 194376310 db] BAG62914.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 14485767 gb AA6374.1 10442727 gb AA617452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AC64579.1 1119164 db] BAB18035.1 311222955 gb AD76556.1 478497115 ref XP_004422895. 470849713 ref XP_003951025. 403267534 ref XP_003981025. 403267534 ref XP_003981025.		
gi gi gi gi gi gi gi gi gi gi	16636344 [gb] AR720152.1] AR7209 194376310 [db]] BAD96752.1] 62897625 [db] BAD96752.1] 62897625 [db] BAD96752.1] 14485767 [gb] AAR5074.1] 104485767 [gb] AAR617452.1] 15866833 [gb] ABW76683.1] 499050836 [ref [XP_004575933.1] 11191964 [db] BAB18035.1] 311222955 [gb] AD76556.1] 478497115 [ref [XP_004422896.1] 478497113 [ref [XP_004422896.1] 478497113 [ref [XP_00398025.1] 403267534 [ref [XP_003989742.1]		
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91 91 91 91 91 91 91 91 91 91 91 91 91 9	16636344 [gb]AAF20152.1] AF209 194376310 [db] BAD96752.1] 162897625 [db] BAD96752.1] 162897409 [db] BAD96752.1] 14485767 [gb]AA6374.1] 10442727 [gb]AA617452.1] 158668333 [gb ABW76683.1] 499050835 [ref]XP_004575933.1] 199050835 [ref]XP_004575933.1] 11191964 [db] BAB18035.1] 311222955 [gb ADF76556.1] 478497113 [ref]XP_004422895. 40367534 [ref]XP_003952881. 40287555 [ref]XP_00389742. 505801926 [ref]XP_004608507. 505801926 [ref]XP_004608507. 505801926 [ref]XP_004608506. 8895917 [gb]AAF3173.1]		
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94 91 91 91 91 91 91 91 91 91 91 91 91 91	<pre>[6636344 gb AAF20152.1 AF209]94376310 db]]BAG62914.1 62897625 db] AAD96752.1 62897409 db] BAD96645.1 14485767 gb AAK6374.1 10442727 gb AAK6374.1 15866833 gb ABW7663.1 15866833 gb ABW7663.1 199050836 ref XP_004575933. 187968772 gb ACD44579.1 11191964 db]] BAB18035.1 311222955 gb ADP76556.1 478497113 ref XP_004422896. 470497113 ref XP_004422896. 403267534 ref XP_00381025. 40946613 ref XP_00382881. 402871595 ref XP_004422896. 505801922 ref XP_004608507. 505801922 ref XP_004608506. 8859917 gb AAF81173.1 8855831 gb AAF81141.1 8855901 gb AAF81112.1 18656200504 ref XP_004008505.</pre>		
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gi gi gi gi gi gi gi gi gi gi gi gi gi g	<pre>[6636344 gb AAF20152.1 AF209]94376310 db] BA056752.1 62897625 db] BA096752.1 62897409 db] BA096752.1 14485767 gb AAK63074.1 10442727 gb AAK617452.1 15866833 gb ABW76683.1 499050835 ref XP_004575933. 187968772 gb AAC74579.1 11191964 db] BAB18035.1 311222955 gb ADF76556.1 478497113 ref XP_004422896. 478497113 ref XP_004422896. 478497113 ref XP_004422896. 478497113 ref XP_004422896. 40267534 ref XP_003981025. 400267534 ref XP_003981025. 403267534 ref XP_003891025. 403267534 ref XP_003891025. 403267535 ref XP_00389742. 505801926 ref XP_004608507. 505801926 ref XP_004608506. 8859517 gb AAF81114.1 8855785 gb AAF81141.1 8855785 gb AAF81141.1 15388857 ref XP_001634709. 84673373 gb BAC6746.1 303306184 gb AAR13014.1 1703130 gp F53473.1 ACTB_ST 60391982 gb BAX59287.1 ACTB_ST 60391982 gb BAX8287.1 405974534 gb BAX83287.1 405974534 gb BAX84287.1 </pre>		
gi gi gi gi gi gi gi gi gi gi gi gi gi g	<pre>[6636344 gb AAF20152.1 AF209]94376310 db]]BAG2914.1 62897625 db] BAD96752.1 62897409 db] BAD96752.1 62897409 db] [BAD96752.1 14485767 gb AAK6374.1 15866833 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC44579.1 11191964 db] BAB18035.1 31122955 gb ADP76556.1 478497113 ref XP_004422896. 478497113 ref XP_003981025. 410946613 ref XP_003980742. 505801926 ref XP_003980742. 505801926 ref XP_004608506. 8895917 gb AAF81173.1 8895961 gb AAF81165.1 8895965 ref XP_001634709. 64873373 gb ABC67746.1 303306184 gb ABT6114.1 1703130 sp P53473.1 ACTB_ ST 60391922 jb AAX791287.1 405974534 gb EXC39169.1 6693629 db gb AAX7925.1 11895981 gb AAR81287.1 405974534 gb EXC39169.1 6693629 db gb DAY7625.1 </pre>		
gi gi gi gi gi gi gi gi gi gi gi gi gi g	i6636344 [gb]AAF20152.1]AF209 i62897625 [db]]AAD96752.1] i62897625 [db]]AAD96752.1] i62897625 [db]]AAD96752.1] i62897625 [db]]AAD96752.1] i62897409 [db] [AAD96752.1] i62897409 [db] [AAD96752.1] i14485767 [gb] AAG17452.1] i566333 [gb] AAD76633.1] i99050835 [ref]XP_004575933.1] i99050836 [ref]XP_004575933.1] i1191964 [db]]AB18035.1] i11222955 [gb] AD76556.1] 478497113 [ref]XP_004422896.1] i72497113 [ref]XP_004422895.1] i0946613 [ref]XP_004422895.1] i0946613 [ref]XP_004422895.1] i0946613 [ref]XP_004608507.5] i05801925 [ref]XP_004608507.5] i05801926 [ref]XP_004608506.8] i895917 [gb] AAF81173.1] 8895917 [gb] AAF81173.1] 8895917 [gb] AAF81174.1] 8895917 [gb] AAF81112.1] i5380857 [ref [XP_001634709.8] 4873373 [gb] AAC7746.1] 30306184 [gb] AAR313014.1] i8176182 [gb] AAR13044.1] i8176182 [gb] AAR13045.1] i60391982 [gb] AAR13287.1] i60391982 [gb] AAR31287.1]		
ji gi gi gi gi gi gi gi gi gi gi gi gi gi	<pre>[6636344 gb AAF20152.1 AF209]94376310 db] BAG62914.1 62897625 db] BAD96752.1 62897625 db] BAD96752.1 14485767 gb AAK63074.1 10442727 gb AAG17452.1 158668333 gb ABW76683.1 499050836 ref XP_004575933. 187968772 gb AAC76556.1 478497113 ref XP_004422895. 478497113 ref XP_004422895. 478497113 ref XP_004422895. 403267534 ref XP_003952881. 402871595 ref XP_003952881. 402871592 ref XP_00480505. 8895917 gb AAF81141.1 8895983 gb AAF81141.1 8895983 gb AAF81165.1 8895787 ref XP_001634709. 84873373 gb AAE641.1 3176182 gb AAR13014.1 1703100 sp F53473.1 ACTB_ST 60391922 gb AAX13014.1 1703100 sp F53473.1 ACTB_ST 60391922 gb AAX13014.1 1703100 sp F53473.1 ACTB_ST 60391922 gb AAX13014.1 1703100 sp F53473.1 ACTB_ST 60391622 gb AAX13287.1 405974534 gb BXC39169.1 6693629 db BAA89429.1 319893800 gb AAV76250.1 157106887 ref XP_00163530.</pre>		
gi gi gi gi gi gi gi gi gi gi gi gi gi g	i6636344 [gb]AAP20152.1]AP209 j94376310 [db]]BA096752.1] i62897625 [db]]BAD96752.1] i62897625 [db] BAD96752.1] i62897409 [db] BAD96752.1] i62897409 [db] BAD96752.1] i1485767 [gb] AAR617452.1] i568033 [gb] ABW76633.1] i99050836 [ref [XP_004575933.1] i99050836 [ref [XP_004575933.1] i191964 [db] BAB18035.1] i1122955 [gb] ADP76556.1] i1122955 [gb] ADP76556.1] i1222955 [gb] ADP76556.1] i1222955 [gb] ADP76556.1] i1222955 [gb] ADP76556.1] i122955 [gb] ADP76556.1] i122955 [gb] ADP76556.1] i20267534 [ref [XP_003422895.1] i0946613 [ref [XP_003899742.5] i09801925 [ref [XP_004608507.5] i05801923 [ref [XP_004608506.1] 8895917 [gb] AAF81173.1] 8895917 [gb] AAF81173.1] 8895917 [gb] AAF81174.1] 8895917 [gb] AAF81174.1] 8895917 [gb] AAF81112.1] 15388857 [ref [XP_001634709.8] 4873373 [gb] AAC6745.1] 30306184 [gb] AAR31287.1] 405974534 [gb] EAX315045.1] 16031982 [gb] AAX19287.1] 405974534 [gb] EAX5		
gi gi gi gi gi gi gi gi gi gi gi gi gi g	i6636344 [gb]AAF20152.1]AF209 194376310 [db]BAG62914.1] 62897625 [db]BAD96752.1] 62897625 [db]BAD96752.1] 14485767 [gb]AAG7474.1] 10442727 [gb]AAG17452.1] 15866333 [gb]ABW76683.1] 199050836 [ref]XP_004575933. 187968772 [gb]AC64579.1] 1119164 [db]BAB18035.1] 311222955 [gb]AD76556.1] 478497113 [ref]XP_004422895. 470940613 [ref]XP_003925881. 40267534 [ref]XP_003925881. 40267535 [ref]XP_004608507. 505801925 [ref]XP_004608506. 8895971 [gb]AAF61141.1] 8895973 [gb]AAF81141.1] 8895973 [gb]AAF81141.1] 8895973 [gb]AAF81141.1] 8895973 [gb]AAF8112.1] 15588857 [ref]XP_001634709. 84673373 [gb]AAF81142.1] 170310 [gb]AAF311AC776.1] 30306184 [gb]AAR13014.1] 170310 [gb]AAF21287.1] 60393692 [gb]AAR429.1] 319893800 [gb]AAV287.1] 60393692 [gb]AAR301429.1] 131898380 [gb]AAV7650.1] 157106887 [ref] XP_00163970. 1673629 [ref] XP_00163970. 18782429 [ref] XP_00163970.1]		
gi gi gi gi gi gi gi gi gi gi gi gi gi g	i6636344 [gb]AAF20152.1]AF209 194376310 [db]BAC62914.1] 62897625 [db]BAD96752.1] 62897625 [db]BAD96752.1] 62897625 [db]BAD96752.1] 14485767 [gb]AAC17452.1] 104462767 [gb]AAC17452.1] 15866333 [gb]ABW76633.1] 199050836 [ref]XP_004575933. 187966772 [gb]AAC14579.1] 11191964 [db]BAB18035.1] 311222955 [gb]AD76556.1] 478497113 [ref]XP_004422896. 470497113 [ref]XP_004422896.1 470497113 [ref]XP_004422896.1 470497113 [ref]XP_004422895.1 403267534 [ref]XP_004422895.1 403267532 [ref]XP_004608507.5 505801922 [ref]XP_004608507.5 505801923 [ref]XP_00111977		

Figure 17. CLUSTALW2 alignment of the sequences retrieved from 45kDa protein identified through MALDI TOF/TOF and CSP from *P. falciparum*.

Asterisks denotes 100% conserved residues. Dots represent conserved but different residues. Double dots indicate less conserved substitutions. Red rectangles indicate positions of 100% conserved residues. Blue rectangles indicate conserved residues in CSP *P. falciparum* that could not be aligned with all the sequences due to gaps.



Figure 18. CLUSTALW2 alignment of the sequences retrieved from MALDI TOF/TOF and CSP from P. falciparum that were also present in the BLAST search of CSP of *P. falciparum.* Asterisk denotes 100% conserved residues. Dots represent conserved but different residues. Double dots indicate less conserved substitutions. Red rectangles indicate positions of 100% conserved residues.