QUERY A D T V A V E D T Y P N T D G D P S Y P H G D K S V E D T Y P N T D G D P S Y P H G D K S V E D S R Q D E W D P S S D H V G N N S L W D P S S D H V G D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D N S M C D D N S M C D D N S M C D D N S M C D D D D D D D D D	40 R S K K T A K W S V Q K V Q W D S N A S A N V
UniRef90 W9RQN5	SNASANV
UniRef90 UPI0002B41953 SNHLFAVEFDTFKNAEFEDIDDDNHIIGIDLNSLI	SSASTFI RSNM <mark>VH</mark> NL
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UniRef90_UP10003EAD865	/IS N S A A PIVI
UniRef90_J3NEE0 N H V L A V E F D T V Q D F E F G D I N D N H V G V D L N S L V UniRef90_M1AHJ3 H V V A V E F D T L Q N R E F D D I D S N H V G I D I N G L F D T L Q N R E F D D I D S N H V G V D V N S L F D T V M D L E M D D I N G N H V G V D V N S L F D T V M D L E M D D I N G N H V G V D V N S L F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D L N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D V N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D V N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D V N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D V N S L N H L F A V E F D T V Q D F E F G D I N D N H V G V D V N S L N H L T M T M T M T M T M T M T M T M T M T	K S V I F N N L F S N T K V P V
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UniRef90_W9S791 UniRef90_Q69TX5 UniRef90_Q9SEW3 UniRef90_K3Z4A6 UniRef90_K3Z4A6 UniRef90_K3Y204 S N H L F A V E F D T V Q D F E F E D I N G N H V G V D L N S L I UniRef90_K3Y204 S N H L F A V E F D T V Q D F E F E D I N G N H V G V D L N S L I UniRef90_K3Y204 S N H L F A V E F D T V Q D F E F E D I N G N H V G V D L N S L I UniRef90_K3Y204 S N H L F A V E F D S S Q N T E F N D I D D N H I G I N I N S L I	A S N K S V N L
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IUNIKEI9U KAIK36 SIN HILLE ALVIETI IDTEV QIN SEEK DILIN NIN HILLIGII IDTEN SIN T	F S IV IQ F F N II I
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UniRef90_V4L390	N S I D S N T S R S V K S H Y A
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UniRef90_UP10002B43C17	SNAT <mark>VH</mark> A ESERSTNI
UniRef90_F6GUY7 SNHVFAVELDTILSPDLKDTDGNHVGVDVNSLLUDIRef90_A0A059A873 NHIFAVEVDTLQNAELYDINDNHLGIDVNGL	OSEVSAPV
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QUERY UniRef90_UPI00023B34EE	NMQDGKVGTAHIIYNSVDKRLSAVVSYPNADATSVSYDVDSIKNGSRANAWVSYNSATKNLSVFLTYADNPNSTLSYVVDSLKSGKPILAWVDYDSQLNLISVALSPSKPKTPLLTFNVD
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UniRef90_A9NVC0 UniRef90_B9GWY3 UniRef90_UPI0002C3445B	NL RS GRNI QA WI DY DHL QS RL DVT MT VPRPQKPL I SL QI D GL SSEEPMQA WVEY DA PET QL NVT LA PILH PDLPL LSL NI D NL KS G DV I QA WVS Y DA DKKQVT VKL SPT QPST SI LTF DVD TL KS G QPI L VWV DY DS A QS V VN VT I SST KPT RPL LSF PVD SL KS G R MI QA WI DY DS A RN RL E VKL SPEKPRSSI LSF DVD
UniRef90_V7AKE3 UniRef90_UPI00042B2F86	TLKSGQPILVWVDYDSAQSVVNVTISSTKPTRPLLSFPVDSLKSGRMLQAWLDYDSARNRLEVKLSPEKPRSSILSFDVD
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UniRef90_W4CG63 UniRef90_UPI0003EAD865 UniRef90_J3NEE0	TILIES GAAMOVIWVDYDGGAMGILINIVITILIAPPKPROPILIISIVIPIVIA
UniRef90_M1AHJ3 UniRef90_K3Z4A2	NIKSGDTILAWVDYDAGARLLNVSIAGSKPAAPLISFHVDTLASGQPMQVWVEYDSVDKHMNVTMAPAKPDRPLLSLVYDTLESAQPIQAWIDYDGGSGVLNVTVAPTRPRRPLISTKLD
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UniRef90_B9SDY6 UniRef90_UPI0001983CE3	S L Q S N K V I Q A WI D Y D S L K N L V E V R L S P F K P R L P I L S F G V D S Y Y S G M P I Q A WI E Y D G T Q K I V N V T I S P P K P S R P L L S A P V D
UniRef90_W1PK07 UniRef90_I1KK20 UniRef90_C5Z961	N L K S G D P L Q V W I E Y H G I E K L L N V T L F P G R P S Q P L I S S K V D S L I S G Y P M Q V W V E Y D G L K K Q I D V T L A P L N P E R P L L S L N K D G L N S H E V M Q V W V N Y N R E T T Q I N V T I A P A K P V R P L L S T T Y N
UniRef90_C5Z961 UniRef90_A0A059B8Z2	GILINS HEIVIM CIVIWIVIN YN RELLI CILINIVILLI IA PAK PIVIR PILLIS LLYN
UniRef90_A2YZ60 UniRef90_K4C1Y1	N L K S G K P M Q V W V D Y D G M E K L I S V T L A P Q K P N T P L L S L T Y D T L Y N G R A M Q V W M E Y S K E A T Q I T V T M A P P K P K R P L L Y A T Y D S L Q S G K T L Q A W D Y D S S R L N V S L S L S S T K P A F S L L S F P V D
UniRef90_V7CHQ9 UniRef90_R0GH93 UniRef90_V4LDM9	S L I N R K P L Q A WLE Y D S T R K Q L D V T L H P L H P K T P L L S L T R D
UniRef90_I1JLM6 UniRef90_V4SH53	TLQSGVPILAWVDYDAAQSHVTISASSTKPKRPLLSYHVD AYFSGDPLQLWUSYDGAEKLLNVTMSLPKPTKPLLSRALN
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UniRef90_K4AK63 UniRef90_F6HL81	SIL I S G R P M Q V W V D Y N G Q A M E I N V I I L A P E K P I E P I L S I A L N SIL I S G R P M Q V W V D Y N A L E K Q I D V R L A P D K P D I P L L S L P R D
UniRef90_J3MID1 UniRef90_W9S791	N L G G D A M Q A W V D Y D G D V A R N L T A P P K P A R P L I S A A Y N T L S G Q P M K V W D Y D G S R K Q N A S S P T N P Q K P L S T K D
UniRef90_Q69TX5 UniRef90_Q9SEW3 UniRef90_K3Z4A6	NLKSGEVTQAWVDYDXLKNNLEVSTTSSKPTSPILSYKVD
UniRef90_K3Y204 UniRef90_W4ZXF8	S
UniRef90_UPI000350B73C UniRef90_A3A5U8 UniRef90_V4UFQ9	S L N S G D A M Q V W V D Y G G E A K Q I N V T I A P E K P V R P L I S K T H D T L I S G D A M Q V W V D Y D G D T T R V N V T L A P R K P A R P L L S A M H D R L E S G K P L Q L W I D Y N G Q E K L V N V T L A P P K P S R P L L S T S I D
UniRef90_B7ER53 UniRef90_K7TR36	NILIASGTTMTADII ISYDSSAEILLIAVITFWILINGTSYHVISASVID
UniRef90_W5C8D0 UniRef90_W1PJ23	S L S G K P M Q V W V D Y D D N S H H V N V S L A P E K P Q R P L L S S T V N T L Q G G N P Q Q M L E Y D S P S K V L N L T L S S D K P Q T P L L S T E L D T E L D T T E L D T T E L D T T T E L T T T T T T T T T
UniRef90_UPI0003D74B3D UniRef90_O22833 UniRef90_Q337T3	DLQSGNPMQIWIDYNGEEKLLNVTLAPSKPNRPLLSTPLD SLISGSLLRVTILYSQMEKQLNVTLSSPYPNKPLLSLNQD TLFSGAAMQVWVDYDGRAAVVNVTLAPAKPRRPLISVAVD
UniRef90_M5XTB0 UniRef90_UPI0003509087	V F S S N R V A N A WI T Y N A T T N D L S V F W T Y K E N P N P S L S H R V D O L N S R K P M Q V WI D Y D G Q A G O L N V T L A P Q K P K K P L I S V P V D
UniRef90_J3NAV5 UniRef90_UPI0003EA8DD6 UniRef90_A0A059AHD6	P L D S G R P I Q A W I D Y D G T T N V L N V S I A P P Q P Q R P L I S T Q V D T L E S A Q E I Q A W V E Y D G S S K I L N V T I A P T R P R R P L I S R P I D T L I S G E E M Q V W V D Y N G T E K R V D V T L A P Q K P N T P L L S L T W D
UniRef90_I1Q7T9 UniRef90_U5DG95	TLISGEEMQVWVDYNGTEKRVDVTLAPQKPNTPLLSLTWD SLISGDPMQAWVDYNGEDKKINVTMAPAKPTKPLISISYD NLNSGENFQAWVDYNNLMPRLNVSMALAKPDRPSISLELN
UniRef90_K3XVL1 UniRef90_UPI00042B8565 UniRef90_V4L390	NL NS GE NF QA WV DY NN L MPRL NV S MALAKPDRPSI SLELN NL NS GE NF QA WV DY NN L MPRL NV S MALAKPDRPSI SLELN DL RS GNLT TA WI DY RS A DR RL EV FLSY PKPKRPV L SVAVD DL KS GKKI TA WV EY RD SAKL I QI WV SY SKPPSPV L VA QI D GF WS GRNY QV WI DY DS V V NV TI QV A GKT RPKI PLL SKSLN GYYDD MA MQV WV DY DG GRK QI SVT L APAKPMKPL L SI NY D
UniRef90_V4L390 UniRef90_K4A2K9 UniRef90_A0A022RTK3	GYVDDMAMQVWVDYDGGRKQISVTLAPAKPMKPLLSINYD GYWNGRIYQVWIDYDSILNVTMSPVGMKRPKQPLLNVPLN
UniRef90_UPI000234F049 UniRef90_I1I4B1	TLISGDVMQIWVDYDGLARVINVTLGPPRPKRPLISVAVD
UniRef90_F2CY11 UniRef90_UPI0002B43C17 UniRef90_U7DUW4	SLVDRKPMQVWVDFDGQTMQVNVTMAPARPKRPLLSTTVN SLQSGKPIKVWIDYDSDEITLNVTISPSKPRNPILSYRVD TLISGHPMOVWMEYDGMEKOLKVTLAPDKPSRPLLTUSRD
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UniRef90_B9GWY3	I SPI I LEQMYVGFSSSTGQLVQSHYVLGWSFR
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UniRef90_UPI00042B2F86 UniRef90_UPI000234EB14	MAKTSI L I WVFFFFLFYSYP L S P I L F E F M Y I G F S A S T G Q M S S S H Y I L G W S F L S P L D T M Y V G F S A S T G L L A S S H Y I L G W S F K I N L S P Y L Q E F M Y V G F S A S T G L L A S S H Y I L G W S F K I N L H N V L Q E K M Y V G F S A S T G L L A S S H Y I L G W S F K I N L S P I L E Q M Y V G F S S S T G Q L V Q S H Y V L G W S F R L S P I F Q D Y M Y V G F S S S T G L L A S S H Y I L G W S F K M N L S P I L E D S M Y V G F S A S T G L L A S S H Y I L G W S F K M N L S P I L Q D S M F V G F S A S T G L L A S S H Y I L G W S F N M S E M N H L S L L H L I F F I V L N P S E M N H L S L L L H L I F F I V L N P
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UniRef90_W1PR09 UniRef90_W5GWA8	LISTVLTELVYLGFSAATGRVNSRHFVLGW
UniRef90_M8BT87 UniRef90_K4A0F8	L S I V L T E P S Y I G F S S S T G <u>P V N</u> S R H Y V L G W L S T V V A D P A Y I G F S S T S S I M L T S H Y V L G W S F <mark>C.</mark>
UniRef90_I1GT31 UniRef90_UPI00042B8E8F	L S P V L S E E S Y V G L S S S T G P F H T R H Y V L G WS F L S S V I D D T A Y V G F S S S S G I L F C R H Y V L G WS F K M N L S S I F Y E E M Y V G F S S S S G I L F C R H Y V L G WS F K M N L S S I F L E S M Y V G F S S S T G S I F A S Q Y V L G WS F K M N L S S I F L E S M Y V G F S S A T G A M A S D H Y I L G WS F N R L S P I L D E M Y V G F S S A T S T I V S S H Y I L G WS F K M N L S P I F K E T M Y V G F S S A T G L Q A S S H Y I L G WS F K L S P I F H D T M Y V G F S A S T G L Q A S S H Y I L G WS F K L S P I L D E M Y V G F S A S T G L Q A S S H Y I L G W S F K L S P T L Q E F M Y V G F S A S T G L V A S Y H S I L E WS F L S T V L T E L V Y L G F S S A S T G R V N S R H F V L G W L S T V L T E P S Y I G F S S S T G P V N S R H Y V L G W S F C L S T V V A D P A Y I G F S S S T G P V N S R H F V V G W S F N L S E Y L K E L K Y V G F S A S T G S T E L H L I E N WS F K T F L S E Y L K E L K Y V G F S S S T G K I K T R H Y V L G WS F A M N G P A P V I L S T V L T E F M Y L G F S S S T G K I K T R H Y V L G W S F A M N G P A P V I L S E Y L K E L K Y V G F S S S T G K I K T R H Y V L G W S F A M N G P A P V I L S E Y L L D L M Y V G F S S S T G T L T A S H Y I L G W S F K M N L S P Y L L E F M Y L G F S S S T G T L T A S H Y I L G W S F K M N L S P Y L L E F M Y L G F S S S T G T L T A S H Y I L G W S F K M N L S P Y L L E E M Y V G F A A S T G S V G A I H Y M W S W H V Y
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UniRef90_M4CUK1 UniRef90_B2BXT8	NHIVAVELDTVQGAEVHDIDDNHVGIDINSVVSELFRNL
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UniRef90_UPI00042B1CE0	A N H V <u>V</u> A V E L D T I Q S N E F A D L N E N H V G I D I N G L K S R Q F R N L
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UniRef90_U5CXK9 UniRef90_M7YCL0	N H F A E L D T F Q N L E <u>F</u> E D I N D N H I G I D I N S L <u>Y</u> S <u>I K</u> S H N <u>A</u>
UniRef90_UPI00032A71C1	FAVEFDTSFDPSLGDINGNHIGIDLSNVVSALSRGV

UniRef90 Q9FYU9	50 DRKEGVIGTARIINYNAATRNILISIVVSSYPGSQDYIVVIS <u>YVV</u> D
UniRef90_M5WH14 UniRef90_I1Q7U0	GYWSGENYQVWIDYDFFLNVTMVRAGMQRPRTPILSVFYN
UniRef90_W9RQD5 UniRef90_M0VHH7 UniRef90_J3NAV6	DLRNGREIT AWIEYRHAMRMVRVWVGYSRPPNPLLVAQID NAQTSANYTVWIEYDGVGRRVTVYMGKPKPATPVLASGLD KLESAQPIQAWVDYDGGAHVLNVTIAPAKPHRPLISARLD
UniRef90_A3C558 UniRef90_A5C9A7	SLISRQPMQVWVDYDAAAAEVTVAMAPPRPKKPLLSTAVN
UniRef90_UPI00032A8D0B UniRef90_U5G5V7	SLKDGFVHHAWINYDGPQKRMEIFLGLANPTKPIFSEIMD TLISGHVMHVWIDYDEVEKLLNVTVAPTKPTLPLLSKPLD
UniRef90_UPI000350A146 UniRef90_D7M3I2 UniRef90_A0A059BBW0	GYYDNRNGNFHNLTLASYKVMQLWVEYDKPFKPLLSTTYNTLISHKRMQVWVDYDGHSHRIDVTMAPFKPRKPLVSTVRDPWMDGQELRAWVTYNSTAMNLSVVFRDDDDNYTSLYYPVN
UniRef90_K4AJ08 UniRef90_UPI00042B04AE	S L L S R E P M Q V W V D Y D A A T T E L T V A M A P P R P K R P L L S K R L D
UniRef90_W5CSA1 UniRef90_C5YVY1 UniRef90_G7K668	TLISGEAMQVWVEYDGEAAQMNVTVAPAKPTRPLVSAKHDGFHDDSNGRFWVEYDGNTTRIHVTLAPQKPVTPLLSLTYN
UniRef90_I1H3U3 UniRef90_W5BL17	T L N S G E P M Q L WV E Y D A Q T T Q V I S T L A R T K P R R P L F T T T T N S L I S G N P M Q V W V D Y D G R A T E I T V T M A P A R P K R P L L R T T V D
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UniRef90_M5W344 UniRef90_UPI0003EA901C	NLESGDLIQAWI DYDGKTQIVNVTLAPRKPDKPLLSHPVDGLNSREPMQVWVDYDGQSKQLNVTLAPARPRNPLLSEAID
UniRef90_V4RX63 UniRef90_UPI00042B3475 UniRef90_I1GT32	DLASGERIQLWVEYDGTKHQLNVTLSPLHPKVPLLSMDIDTLSSREPMQVWVDYDGQVKRLNVTMQMSKPKNPLLSEALD
UniRef90_11G132 UniRef90_A0A059A871 UniRef90_M5VIB4	SLISGKAMQAWVDYDGLQKHII VTLAPDKPSSPLLSLSYN DAHSGKKAHVOIITYNATTKNLTVFWTYEEYTITSLSYHID
UniRef90_A2YHW3 UniRef90_M5XQV9	T L N S H E P M R I WI D Y D Q E T T R I D V T V A P S K P K R P L G S V T Y N S L D D G S V H R V W I G Y D G S R R W M E I H L G S D P P S K P I F S G P L D
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UniRef90_R0H730 UniRef90_K3Y5P2	G Y W D E K D M Q V W V D Y D G H T H R I D V T M A P F N P R K P L V S I V R D S L I S G Q P M Q L W V D Y D S N Q A M I N V T M A P S K P S R P L L S V A C N
UniRef90_V7BUC4 UniRef90_K4CPZ0	T L N N G E N Y QVWI D Y D S WM N V T M A P V G M K R P S R P L L N V S L N N L Q S G E S I Q A WI D Y D G M S K V V N V T I S P P K P G R P L I S E V V D
UniRef90_D7MR66 UniRef90_C0P4S9 UniRef90_K4A6G1	G F Y N D Q P I Q A WV E Y D G N K T R I D V T I A P A K P L T P L L S L A F N S L V S G N L Q Q V W V E Y D G A S M R M E V T V S P P R P A V P L V S Y T V N
UniRef90_UPI00042B7BCA UniRef90_M4CU92	S Y F D D T V G M N WI E Y D G E N R L L N V T L A P P K P R L P L L S R S I D
UniRef90_UPI000234E7C8 UniRef90_A7X6N9 UniRef90_M4CEG6	GYYSGEPMQVWVDYDANSHQVNVSLAPYKPERPLLSSIVNGFWNGENYQVWIDYDSLINVTIAKLGMRKPVKPLLNVSLNSYYSGNSILIWIDYDGLEKRLNVTLAPIKPRVPLLSKTIN
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UniRef90_Q6YT57 UniRef90_W9SDW8 UniRef90_B9F746	TLISHEAMRVWVDYDAGDARLDVTLAPAKPVRPLISAAYN TLISRKAMQVWVDYNGQAMVLNVTLAPSKPKKPLLPTGLD
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UniRef90_K3Y5P4 UniRef90_I1H3V0	SILIN S G D P M QIL IWV D Y D S N Q A M M N V I I V A P S K P S W P IL LISIV A C N SILIN S G D P M QIL IWV E Y D A Q T T Q V V L ITIL A P A K P Q R P IL F T T T T N
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UniRef90_W5CLE2 UniRef90_I1H3V1 UniRef90_V7BC16	GYFDDDDGSFRNLSLISREAMQVWVDYDHPVRPLFTATYNNLTSAQGLQLWIDYEMQSTRINVTMSPGKPARPLVSAIYD
UniRef90_V7BC16 UniRef90_J3LC05 UniRef90_Q9FVF8	TLVCGKAMQVWVDYNDNDTQIDVRLAPKKPVKPLVSTRFNDWRNGEVADVVITYRAPTKSLTVCLSYPSDETSIITASVD
UniRef90_M4CLT1 UniRef90_UPI00042B781C	GWWS RKPMQVWVDYDGRTHKIDVRMAPDKPRRVLVSAVRD GWWS RKPMQVWVDYDGRTHKIDVRMAPDKPRRVLVSAVRD KLESGDPVHAWIEYDGNFVNVTISLKVEKPSQPLISHRID SLTSGDSMQLWVEYDSKQKRLNVTLHPPKPKLPLLSLQKD RLASGKPIRVWIEYNATEMMLNVTLAPPKPSPLLSRKLN ILESGDAIQAWIEYDGNFVNVTICFHLNKPSKPLISHPID TLISGKAMQVWADYDGGSTQITVTLAPTKPVRPLLSTSYN TLISGQRMQVWADYDGGSTQITVTLAPTKPVRPLLSTSYN TLISGQRMQVWYEYHGLEKRMDVTLAPTKPVRPLLSTSRD
UniRef90_M4CUK1 UniRef90_B2BXT8 UniRef90_G0Y6Q9	SILI S G D S M QIL WIV E Y D S K Q K RIL INVII L H P P K P K ELPIL L SIL Q K D L I S G K P I R V WI E Y N A T E M M L NVII L H P P K P S S P L L S R K L N L I E S G D A I Q A WI E Y D G N F V N V I L E H D N K P S K P L L S L D I D
UniRef90_I1J019 UniRef90_UPI00042B1CE0	TLISĞKAMQVWADYDĞĞSTQİTVTLAPTKPVRPLLSTSYN TLISGQRMQVWVEYHGLEKRMDVTLAPPKPKTPLLSLSRD
UniRef90_A0A022QJJ9 UniRef90_A3BP74	S Y S N Y G P V Q A W L D Y D A F T K L V N V T V S P P K P L R P L I T G E L D
UniRef90_T1N305 UniRef90_W9QU65 UniRef90_K3Y3M9	DLESGDLIQAWVDYDGKNKLINVTVAPIRPSTPLLSIGYD SLISHEDMRVIWVDYDAVISNRINVTLAPVKPAKPLISAIYN
UniRef90_B4FW79 UniRef90_V4LRG2	SLISHEDMRVWVDYDAVSNRINVTLAPVKPAKPLISAIYN TLISGKAMQVWADYHGETTQIEVRLAPAKPARPLLSAV <mark>C</mark> N SYFNDTEKKMWIDYDGVEQLLNVTLAPLKPSVPLLSRSIN
UniRef90_U5CXK9 UniRef90_M7YCL0	T M T S S D F V Y V R I D Y D G A S K N L S V F L K H E E V P S L N L T H E I D G F Y S Q E A M Q V W V D Y H R E K T Q I D A T M A P V K P T R P T V S A N Y N
JniRef90_UPI00032A71C1	DLKSGKIITÄWLEYRDDMKMVRVWVGYSRPPTPI LASLVD

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V V Q N T A Y V G F
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LS RVVE DIAYIGFSSATGLSIAYHYVLGWS
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P E WV S V G F
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S Q E H H V G F
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170 180 190 200 UniRef90_Q9FYU9 UniRef90_M5WH14 UniRef90_I1Q7U0 UniRef90_W9RQD5 UniRef90_M0VHH7 UniRef90_J3NAV6 UniRef90_A3C558 QD KSMDSSWGRALLYKEQLYLWDRTSRNLTFATNFSF<u>VI</u>N UniRef90_A5C9A7 UniRef90_UPI00032A8D0B UniRef90_U5G5V7 UniRef90_UPI000350A146 UniRef90_D7M3I2 UniRef90_A0A059BBW0 UniRef90_K4AJ08 UniRef90_UPI00042B04AE FNSVSYL<mark>C</mark>RVGRVSYAQSVPLWDSGTNKVDFTT<mark>H</mark>FSFFLN UniRef90_W5CSA1 UniRef90_C5YVY1 SEET DIRHQAGRGLYSFPIRLLDPITKPASFQTTFSFQLN UniRef90_G7K668 UniRef90_I1H3U3 UniRef90 W5BL17 UniRef90_Q0D8T3 UniRef90_F2D8T0 UniRef90_V4TPY7 UniRef90_Q6UY59 UniRef90_C5Z939 UniRef90_U52939 UniRef90_M5W344 UniRef90_UPl0003EA901C UniRef90_V4RX63 UniRef90_UPl00042B3475 UniRef90_I1GT32 UniRef90_A0A059A871 VDDNLTS SVGRATYNQPVPLWDAKTRSLTFTTHFSFVMS UniRef90_M5VIB4 UniRef90_A2YHW3 GNDSNSVASTDLVWQALPRRF UniRef90_M5XQV9 UniRef90_Q84ZI4 UniRef90_M4C9K1 UniRef90 A0A058ZRZ4 UniRef90_R0H730 UniRef90_K3Y5P2 UniRef90_V7BUC4 UniRef90_K4CPZ0 TASSSFSTEFVFAML TKSTGHAFNKTPMQF UniRef90_D7MR66 UniRef90_C0P4S9 UniRef90_K4A6G1 UniRef90_UP100042B7BCA RD VLMTASVGRATYSKTLHLWDKASGNLTFSTSFTFVID UniRef90_M4CU92 UniRef90_UPI000234E7C8 UniRef90_A7X6N9 UniRef90_M4CEG6 UniRef90_F2E5Z UniRef90_A0A059BCI3 UniRef90_Q8H4I2 UniRef90 R0GH79 UniRef90_Q6YT57 NINYDY<mark>C</mark>RVGRVISAEALHLWDANTNNLSFRTSFSFTID UniRef90_W9SDW8 UniRef90_B9F746 UniRef90_W1P0Y7 UniRef90 I1LS36 UniRef90_B9HG09 UniRef90_M4DUZ5 FNLVDYINRVGWATYPERVRLWDSSSGQLSFTSHFSFTIN UniRef90 M5W756 UniRef90_D8SIB6 UniRef90_S8DKN0 UniRef90_K3Y5P4 UniRef90_I1H3V0 UniRef90_A2V6V5 UniRef90_F2CUI0 UniRef90_I1M6F9 UniRef90_W5BIG0 UniRef90_M4EL72 UniRef90_W5CLE2 UniRef90_I1H3V1 S G G N P V G A S V G R V L F S A P F H L WE N S M A V S S F E T N L T I Q I S UniRef90_V7BC16 UniRef90_J3LC05 UniRef90_Q9FVF8 UniRef90_M4CLT1 UniRef90_UPI00042B781C UniRef90_M4CUK1 UniRef90_B2BXT8 UniRef90_G0Y6Q9 UniRef90_I1J019 UniRef90_UPI00042B1CE0 UniRef90_A0A022QJJ9 IS AN SVGN NVGRVFYKPPVQLWD AAT GEVSFTT RFSFN I IKAGGSPSN SLGRVLHEHSVTLWD AAT GKAGFNT FFT FRLE UniRef90_A3BP74 UniRef90_T1N305 UniRef90 W9QU65 UniRef90_K3Y3M9 UniRef90 B4FW79 UniRef90_V4LRG2

UniRef90_U5CXK9 UniRef90_M7YCL0 UniRef90_UPI00032A71C1

UniRef90_Q9FYU9 UniRef90_M5WH14 UniRef90_I1Q7U0 UniRef90_W9RQD5 UniRef90_M0VHH7 UniRef90_J3NAV6 UniRef90_A3C558 SNKSAYGDGLTFFL NGTQLPSNVSGENLGLTKDN UniRef90_A5C9A7 UniRef90_UPI00032A8D0B UniRef90_U5G5V7 UniRef90_UPI000350A146 UniRef90_D7M3I2 UniRef90_A0A059BBW0 UniRef90_K4AJ08 UniRef90_UPI00042B04AE RNISMYAAGLAFFLAPVGFELPPNSAGGFLGLFNTT UniRef90_W5CSA1 UniRef90_C5YVY1 NLTTGGGSGLTFIIVPD E F T V G R P G P W L G M L N D A UniRef90_G7K668 UniRef90_I1H3U3 UniRef90 W5BL17 UniRef90_Q0D8T3 UniRef90_F2D8T0 UniRef90_V4TPY7 UniRef90_Q6UY59 UniRef90_C5Z939 UniRef90_U52939 UniRef90_M5W344 UniRef90_UPI0003EA901C UniRef90_V4RX63 UniRef90_UPI00042B3475 UniRef90_I1GT32 UniRef90_A0A059A871 APNPEYGEGUSFFLAPFNSKLPDNSSDGYLALFS UniRef90_M5VIB4 UniRef90_A2YHW3 UniRef90_M5XQV9 UniRef90_Q84ZI4 UniRef90_M4C9K1 UniRef90_A0A058ZRZ4 UniRef90_R0H730 UniRef90_K3Y5P2 UniRef90_V7BUC4 UniRef90_K4CPZ0 PLQGDG QGMAFVVSPTKDLRYAGAATSDLGLFNKTN UniRef90_D7MR66 UniRef90_C0P4S9 UniRef90_K4A6G1 UniRef90_UPI00042B7BCA SNRSAYGDGLAFFLAPAGSKLPDNTKGGTLGLASD UniRef90_M4CU92 UniRef90_UPI000234E7C8 UniRef90_A7X6N9 UniRef90_M4CEG6 UniRef90_F2E5Z UniRef90_A0A059BCI3 UniRef90_Q8H4I2 UniRef90 R0GH79 UniRef90_Q6YT57 T G R A S Y A A G L A F F L A P V G F E M P P N S V A G F L G L F N T T UniRef90_W9SDW8 UniRef90_B9F746 UniRef90_W1P0Y7 UniRef90_I1LS36 UniRef90_B9HG09 UniRef90_M4DUZ5 UniRef90_M5W756 T Q G T N Y G H G I A F F L A P V G F Q I P P N S A G G F L G L F N T T UniRef90_D8SIB6 UniRef90_S8DKN0 UniRef90_K3Y5P4 UniRef90_I1H3V0 UniRef90_A2V6V5 UniRef90_F2CUI0 UniRef90_I1M6F9 UniRef90_W5BIG0 UniRef90_M4EL72 UniRef90_W5CLE2 UniRef90_I1H3V1 UniRef90_V7BC16 UniRef90_J3LC05 T P H P Y Y A D G F A F F L A P H D T V I P P N S W G K F L G L Y S N UniRef90_Q9FVF8 UniRef90_M4CLT1 UniRef90_UPI00042B781C UniRef90_M4CUK1 UniRef90_B2BXT8 UniRef90_G0Y6Q9 UniRef90_I1J019 UniRef90_UPI00042B1CE0 UniRef90_A0A022QJJ9 A P R S K K G D G M A F F L T S Y P S R L P G H E G G E N L G L T N Q T A V N N S T G D G L A F F L G H Y P T S L P P L D N G R N L G L Y P UniRef90_A3BP74 UniRef90_T1N305 UniRef90 W9QU65 UniRef90_K3Y3M9

UniRef90_B4FW79 UniRef90_V4LRG2 UniRef90_U5CXK9 UniRef90 M7YCL0 UniRef90_UPI00032A71C1

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UniRef90_Q96285	1	J
UniRef90_W1PUN8		
UniRef90_I1H2P1 UniRef90_M8BJ64	NHLLAVELDTTQNTDFQDIDANHVGIDINSLHSLQSHTANQLFAVELDTIKNPQFSYIDENHVGIDVNSMVSINSHTAHVLAVELDLNKDDEFGDINDNHVGININGMRSIQFRNL	
UniRef90_D7MXM0	HV TAVEL DINK DDEFGDI NDNHVGI NI NGMRSI QFRNL	
UniRef90_I1GNF3 UniRef90_B9SDJ5	L F A L E L D T W P N S E F G D L N N N H V G L D L N S L S S V Q S H P A	
UniRef90_V4T3E8	DSFFAVEFDTSFDPSLGDLNGNHIGIDISSVISFVSVDI	
UniRef90_A0A059BBX5 UniRef90_M4EPG2	FVAVEFDTFHKTNVWDPPCDHIGIDVKSLTSVNATCVNRILAVEFDTVKSNEFLDIDGNHVGIDVNGLVSVESAPANHVFAVELDTIGSTEFNDTDDNHVGIDLNSMKSVNSSYA]
UniRef90_M4DPW2	N HIVIE AIVIEIL ID TILIG S T E E N D T D D N HIVIGII IDII IN S M K SIVIN S S Y A	
UniRef90_A0A058ZYF4 UniRef90_W5BJI3	NRI VMVEFDTYSNKEF DPQELHVGINNNSIRSI VHSHW HIFAVELDTLHNSECHDLNGNHVGVDLDSMVSRDSANL	1
UniRef90_UPI0002C32B43	FVAVEFDLYQNPTYLDPPYDHVGVDVNNLRSNLTMAW	ĺ
UniRef90_K4D2U1 UniRef90_K4B7G2		
UniRef90_UPI0002B43F36	SNHI FAVEFDTVNGHDDTNFKGNHVGINKNGVRSDVKTEV	1
UniRef90_K3Z065 UniRef90_Q84ZH4	S N H I F A V E F D T V N G H D D T N F K G N H V G I N K N G V R S D V K T E V S H P I L A V E L D T I L T P E F R D I N S N H V G I D V N S L V S R Q F R N L N H F F A I E L D T N Q N D E F N D V N N N H V G I D I N S L T S L N F N N I	
UniRef90_V4US50	NHVFAVELDTÜESHEFFDLNDNHVGLDLNSLKSEHFÜNL	
UniRef90_UPI0002B44CC3 UniRef90_F6I0P1	NQIVAVEFDT <u>E</u> K QDFDPDDN <mark>H</mark> IGLNINSVRSYTTVEL	1
UniRef90_UPI0003D7201B	S N H L V E F D T V N G F N D A E N Q G N H V G G N T M F S N H K E E M	1
UniRef90_A0A022RNV8 UniRef90_A0A059AR88	SNHIVAVELDTLRSAEFNDLDDNHVGIDITSLESVVFKNL SNHLLAIEFDTFNQSY DPDANHVGLDINSVHSNQTVQL	
UniRef90_J3MW08	NQLFAVEFDSCKNOEFQDODNNHVGIDINSLTSVDFSNL	
UniRef90_Q6ZFB3 UniRef90_W1PJZ1	NQI FAVEFDS KNIEFQDIDNNHVGI DI NSLTSVDF SNL NRFVAVEFDT YLNRDF DPNYDHI GI DVNSI RSVQT ESP NHVLAVEFDTVLNEQFNDINANHVGI DLNSLTSNI SADL NHI FAVEFDVFQDKGFGDI NDNHVGI NI NSVTSVVFKEF	1
UniRef90_Q9LZF5	N HILLE ADVIE E DIVIE O D K G E G DIL IN D N HIV GIL IN LIN SIVIL SIV VIE K E E	
UniRef90_M8C175 UniRef90_A0A059DD91	SHRILAVELDTIMDVAFRDIDSNHVGIDVNSLVSRQAKPA SNHMLVVEFDTVKGYENSDEKGNHVGVNFNGMESNTTKPV NHVFAVEFDTNHDPQFGDPNDDHLGINLGAAVSLSEANL	1
UniRef90_M5WC28	NHVFAVEFDTNHDPQFGDPNDDHLGLNLGAAVSLSEANL	
UniRef90_B9IGF8 UniRef90_K3YQI1	K F F A V E L D T V M S T E F H D K D N N H V G V D V D D D R T G E F T S L	
UniRef90_J3MIC8	S N D L F A V E L D T I Q N K E V A D M D D N H V G I N V N S L S S L D A H Y A	_
UniRef90_M5W0P2 UniRef90_I1LDI3	NHUVALEFDTEK QDFDPDGNHUGLNUNSVHSNKTVSL AVEFDTAFHPFLGDLNDNHVAVDVNSLASSFASVD	_
UniRef90_K3YZP4	AVEFDTAFHPFLGDDDNDNHVAVDVNSLASSFASVD HFLAVELDTIVNAEFGDMSDNHVGVNVNGLVSSAFRNM	,
UniRef90_W1PLG6 UniRef90_W1NUK3	NHVFAVEFDTVQNVEFEDKNGQHVGIDLNSLTSNIRHAL SNHVFAVEFDTVEGMK GDIDSNHVGIDINSLVSIASKTA]
UniRef90_M5VUE4	NHVFAVEFDTVQNVEFEDKNGQHVGI DLNSLTSNIRHAL SNHVFAVEFDTVEGMK GDI DSNHVGI DI NSLVSI ASKTA LVAVEFDTRK SYLEDVDDNHVGLDVNSVYSLQQVPV	
UniRef90_Q9FIF0 UniRef90_R0IDY1		
UniRef90_F2CUD7	NHIFAVEFDTFQNNEFGDINGNHVGININSMTSLVFKDV RVVAVEFDTYDNTYYADLNDNHIGIDVNSLNSTASTDT	_
UniRef90_B7ZYU6 UniRef90_W5BSM0	HVFAVELDTLFNADFLDRNSNHVGVDVDŠLVŠRQFRNL]
UniRef90_UPI0002B41C22		7
UniRef90_Q69PR8 UniRef90_Q9LNN1	ANRFVALELDTVK QGYDPDDNHVGLDVNGVRSVKAVPL NHLFAVEFDVFKDKSLGDINDNHIGINNNSVNSTVSKKA]
UniRef90_V4KWD7	S S DVF AVELDTIWN P D F E DINNNHVGIDVHT PLSVGIA SI	
UniRef90_V7CV30 UniRef90_A0A059CCV4	SARFWALEFDIFYTEWGGOFKDSHIGIDINNITSWNST <mark>C</mark> W	1
UniRef90_A0A059CCW3	SARF VALE F D T F Y T E VG G Q F K D S H I G I D L N N L T S V N S T C V F V A V E F D T Y R N N F S G D P N C S H V G I D L N N L T S A A S S C V	
UniRef90_Q01806 UniRef90_Q7FK82	S S HV LAVEID TVO S A E T D D M D N N HVGI D E N R I O S V V S A S A	
UniRef90_A0A059BHJ9	NQIVEVEFDTWVNPEF DPLMQHIGINKNSLSSLVYASW	1
UniRef90_UPI00042B315E UniRef90_M5VX71	NOI V L V E F D T WVN P E F D P L M Q H L G I N K N S L S S L V Y A S W H V F G V E F D V F A N Q E F N D L D D N H A G I D R N S L T S L I S H T A S N H L L A V E L D T Y K Q S F D P D D N H L G L N I N S I R S N K T V S L V A V E F D T F K D A R Y G D L N G N H V G V D V G S L V S V K A R N L	1
UniRef90_UPI00042B898B	VAVEFDIEKDARYGDENGNHVGVDVGSLVSVKARNL	
UniRef90_V4LCL0 UniRef90_A0A059CC89	S S H L A I E L D T V K T I E Y N E L E K P H V G I D L N S P I S V E S A S I S T S F V A V E F D T F R N N D P H F N H V G I D L N N L T S A V S S C V L A V E L D T I W N P E F N D I R G G H V G I D V N D P I S I A V A P A	
UniRef90_M4CR28	LAVELDT IWN PEFNDIRGGHVGIDVN DPISIAVAPA	-
UniRef90_UPI0002C2FD32 UniRef90_V7BV60	NHVFGVEFDIVRNEEFNDISDNHVGVDINSLRSLTSHEA	
UniRef90_J3MIC9	V F A V E L D T I Q N R E L G D M N G N H V G I D I G R P N S L M F Q S L	
UniRef90_I1QF94 UniRef90_N1QYP8	R FVAVE F D T F N N T MVH D P D Y D H L G L D V N S V V S S K T T L P	
UniRef90_M4CR27	SYQLLAIELDTAKSAEFDDINKNHVGIDINSLRSIESASA	
UniRef90_M4DUR5 UniRef90_B9SPG3	S S D V L A V E L D T T WN P D F E D I D S N H V G I D V H S P L S V G T A S A F L A V E F D T R K D A E Y G D L N D N H V G V N V G G F V S A K V K N A	
UniRef90_UPI0003EA95F5	Q A A VE F D T A Q D E E C G D L D D N H V G V D V N S P K S S E F T S C	
UniRef90_Q3E884 UniRef90_A5B319	NHVFGVEFDVFKNEEFGDISDNHVGINVSSLTSISTHEA	
UniRef90_A0A059DCS6		
UniRef90_M7Z6J4 UniRef90_R0H930	NRFFAIELDTVTDPEFKDIDDNHVGIDLNNLTSTFFSTANHVFAVEFDTVQGFKDGDSSGNHIGLNFNSLKSAYQEPFSSHLVAVELDTALSAEFDDKNANHVGINVNSLFSIESAPILLAVEFDTGQNPEFNDPDGNHIGIDLNNIESAITKPANRIVAVEFDTRKSYQD DLDGNHVGLDLKSIKSVYPYPLSNHVFAVEFDTRKSYQD DLDGNHVGLDLKSIKSVYPYPLSNHVFAVEFDDFRNEFNEENDNHVGVDLNSMISVYSEPA	
UniRef90_M4DSH6	SSHLVAVELDTALSAEFDDKNANHVGINVNSLFSLESAPL]
UniRef90_M5WQC8 UniRef90_W5CMW9	L L A V E F D T G Q N P E F N D P D G N H I G I D L N N I E S A L T K P A N R V A V E F D T R K S Y O D D D D D G N H V G I D L K S L K S V V P Y P D	1
UniRef90_K7M2N9	SNHV FAVEFDDFRNEEFNEENDNHVGVDLNSMISVYSEPA SARI FAVELDTLLNADFRDLNSNHVGVDI NSLI ŞI DSANL	1
UniRef90_T1MEF0 UniRef90_Q9M1G4	S S HI LE A VIEL D TIVEN P D F R F T N N N HI GILDVIN N PILSVK N VSI	
UniRef90_K7UC72	ANRIVAVELDIEKQPY DPDANHVGLNVHSVVSVATASL	
UniRef90_B9I0M1 UniRef90_A0A022PPT9	ANRIVAVELDTEKQPY DPDANHVGLNVHSVVSVATASLNGIVAIELDTVKQE FDPDGNHMGLNIHSVJSLKTVSLANQVVAVELDTAR QGGDPDDNHVGIDVNSLRSIRTESL	
UniRef90_V7CE75		
UniRef90_Q9FJI4 UniRef90_UPI000234FD0C	S S QL LA I E L D T VE S A E F D D L D K N H V G L D L K S L N S V E S A S A	
UniRef90_M4DR70	NHLFAVEFDVFQDKYLHDINDNHVGIDINSVDSVTSVKS	
UniRef90_UPI0002B4510E UniRef90_Q852A9	HI FAVELDT QNLELKDI DANHVGI DI NFYPSNNGEFRNKI VAVELDT ARDDEFADI DDNHVGI DDNSLKSVNSSPASNHI FMI ELDTYRNSELQDLDENHI GI NI NSAVSMQFKNM	
UniRef90_Q852A9 UniRef90_W5F2E0	SNHI FMI ELDTYRNSELQDI DENHI GI NI NSAVSMQFKNM	

UniRef90_Q96285 UniRef90_W1PUN8 UniRef90_M8BJ64 UniRef90_D7MXM0 UniRef90_D40A0059BX5 UniRef90_D40A0059BX5 UniRef90_D40A0058ZYF4 UniRef90_M4DPW2 UniRef90_M4DPW2 UniRef90_M4DPW2 UniRef90_M4DPW2 UniRef90_M4DPW2 UniRef90_UP0002C32B43 UniRef90_M4DPW2 UniRef90_UP0002C32B43 UniRef90_W5BJI3 Un	DNDN DNNDND NDDNNNNNNNNNNNNNNNNNNNNNNN
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		170			180		190		200
UniRef90_Q96285 UniRef90_W1PUN8	VNSDSLT		RVVI			OSST			/FNYR
UniRef90_I1H2P1 UniRef90_M8BJ64							,		
UniRef90_D7MXM0									
UniRef90_I1GNF3 UniRef90_B9SDJ5	NLVDYT	C R V G	RATYA	A E R V	PLWD	PSTG	<u>L</u> T F	TTRFS	S F T L N
UniRef90_V4T3E8 UniRef90_A0A059BBX5									
UniRef90_M4EPG2 UniRef90_M4DPW2									
UniRef90_A0A058ZYF4 UniRef90_W5BJI3									
UniRef90_UPI0002C32B43 UniRef90_K4D2U1	A P C T S I S	NIDSG		S O D M I	NIT W NI	DKND	T / C E	NSTEN	/
UniRef90_K4B7G2	A R G T S I S S S D F N R Y	NNSG	RLLF	K Q P F I	K L W D	NTTR	VASF	NSSF	V N I Y
UniRef90_UPI0002B43F36 UniRef90_K3Z065									
UniRef90_Q84ZH4 UniRef90_V4US50							_		
UniRef90_UPI0002B44CC3 UniRef90_F6I0P1	QNDVKLC	NTSG	RLMY	HEPFI	K L WE	KSDT	VASF	STYFY	<u>'</u> LNLR
UniRef90_UPI0003D7201B UniRef90_A0A022RNV8									
UniRef90_A0A059AR88 UniRef90_J3MW08									
UniRef90_Q6ZFB3									
UniRef90_W1PJZ1 UniRef90_Q9LZF5									
UniRef90_M8C175 UniRef90_A0A059DD91									
UniRef90_M5WC28 UniRef90_B9IGF8	ктс	YAVG	H A F Y S	SKPII	Q MLD .	TSSN	ISSPN	ATTF	/FQIV
UniRef90_K3YQI1 UniRef90_J3MIC8								_	
UniRef90_M5W0P2 UniRef90_I1LDI3									
UniRef90_K3YZP4									
UniRef90_W1PLG6 UniRef90_W1NUK3									
UniRef90_M5VUE4 UniRef90_Q9FIF0	Т	KSTG	HAFW	K∐P MI	NFTT:	SPSS	SLSF	STEF	/FALF
UniRef90_R0IDY1 UniRef90_F2CUD7									
UniRef90_B7ZYU6 UniRef90_W5BSM0	RYVGSID	NSTG	RASYS	SQPVI	PLWD	KATG	EVS F	TTRF	FTIV
UniRef90_UPI0002B41C22 UniRef90_Q69PR8	R Y V G S I D R D M P L N	G S V G	RATY	RDPF	H L WE	SGHR	NADF	TTQFT	FTLD
UniRef90_Q9LNN1 UniRef90_V4KWD7									
UniRef90_V7CV30	□N K ♥S Y Y	F R V G	RALYS	SKPLI	RLWD	PSSN	VVTF	VT RFT	FSUN
UniRef90_A0A059CCV4 UniRef90_A0A059CCW3	12.11	0				0 1/ T 0			
UniRef90_Q01806 UniRef90_Q7FK82	KN	SIIG	R A L Y	SAPILI	H [I_]W D :	SKIG	D V N F	ETLFT	F A [I_] I
UniRef90_A0A059BHJ9 UniRef90_UPI00042B315E									
UniRef90_M5VX71 UniRef90_UPI00042B898B									
UniRef90_V4LCL0 UniRef90_A0A059CC89									
UniRef90_M4CR28 UniRef90_UPI0002C2FD32	FNAVSYL	NKAG	RIMY	-IKPYI	RIJWS	SDNE	VASE	NSTE	MNIR
UniRef90_V7BV60 UniRef90_J3MIC9		J. () ()				0 0 11 2			
UniRef90_11QF94 UniRef90_N1QYP8	I A A N V		D A C V A	A D D [7]				SSNFT	FOLK
UniRef90_M4CR27	LAAN V	Jr S[V]G	KASIA	A K P [V]		DAIG	IEASF	SSNFI	r Q <u>II</u> K
UniRef90_M4DUR5 UniRef90_B9SPG3									
UniRef90_UPI0003EA95F5 UniRef90_Q3E884	D	H Q M A	HVFY	K D S 🔲	EL :	SSSK	PLSF	STHF	CALV
UniRef90_A5B319 UniRef90_A0A059DCS6	SDD	VG	QVFY	PRPFI	R MLG	GSTA	AVSF	STHF	∕FA∐K
UniRef90_M7Z6J4 UniRef90_R0H930			_				_	_	<u> </u>
UniRef90_M4DSH6 UniRef90_M5WQC8									
UniRef90_W5CMW9 UniRef90_K7M2N9									
UniRef90_T1MEF0									
UniRef90_Q9M1G4 UniRef90_K7UC72									
UniRef90_B9I0M1 UniRef90_A0A022PPT9		7			_				
UniRef90_V7CE75 UniRef90_Q9FJI4	NNGTIVL								
UniRef90_UPI000234FD0C UniRef90_M4DR70					0 II W D	~		0 T 1 F 0	
	H S D Q N Y [N N L G	R <u>LV</u> F	NAMO	QLWD	PAIG	DASF	SIAFS	F GILE
UniRef90_UPI0002B4510E UniRef90_Q852A9	H S D Q N Y L	N N L G	R <u> L_V</u> F	PNAMO	QLWD	PAIG	DASF	SIAFS	S F GILLE

		210	220		230
UniRef90_Q96285 UniRef90_W1PUN8 UniRef90_I1H2P1 UniRef90_M8BJ64 UniRef90_D7MXM0	Q P NVT VG E	GLAFA	LP DFTV	PENSSGQW	LGLT NSS
UniRef90_I1GNF3 UniRef90_B9SDJ5 UniRef90_V4T3E8 UniRef90_A0A059BBX5 UniRef90_M4EPG2 UniRef90_M4DPW2	ANNNSYGH	GLAFFL	.GPVGYQI	PPNSDNAY	LGLVNTS
UniRef90_A0A058ZYF4 UniRef90_W5BJI3 UniRef90_UPI0002C32B43 UniRef90_K4D2U1 UniRef90_K4B7G2 UniRef90_UPI0002B43F36	P E S D P W G E R P N N E T A E	GLAFIL GLAFLI	TKESESI SPDLEK	P D E S Y G Q W P D N S Q G Q Y	LGI VN E T LGLT N G S
UniRef90_K3Z065 UniRef90_Q84ZH4 UniRef90_V4US50 UniRef90_UPl0002B44CC3 UniRef90_F6I0P1	REEWTAGE	GLT FLI	APT SVV	P E Q S W G Q W	/MGLT NET
UniRef90_UPl0003D7201B UniRef90_A0A022RNV8 UniRef90_A0A059AR88 UniRef90_J3MW08 UniRef90_Q6ZFB3 UniRef90_W1PJZ1 UniRef90_Q9LZF5 UniRef90_M8C175 UniRef90_A0A059DD91					
UniRef90_M5WC28 UniRef90_B9IGF8 UniRef90_K3YQI1 UniRef90_J3MIC8 UniRef90_M5W0P2 UniRef90_I1LDI3 UniRef90_K3YZP4 UniRef90_W1PLG6 UniRef90_W1NUK3	SPKGKGGH	GLAFAL	APSN QF	PGAAAEHY	LGLF N P S N
UniRef90_M5VUE4 UniRef90_Q9FIF0 UniRef90_R0IDY1 UniRef90_F2CUD7	PLLGDG Q	G M A F V	/APFMDLR	YSGDAASY	LGLF N R K N
UniRef90_B7ZYU6 UniRef90_W5BSM0 UniRef90_UPI0002B41C22 UniRef90_Q69PR8 UniRef90_Q9LNN1	G D K N N K G Q S Q H S T Y G D	G M A F F L G F A F F L	A G Y P S S L A P V E S R L	P P P H S G G G N	FGLLSSN
UniRef90_V4KWD7 UniRef90_V7CV30 UniRef90_A0A059CCV4 UniRef90_A0A059CCW3	SSETSYAD				
UniRef90_Q01806 UniRef90_Q7FK82 UniRef90_A0A059BHJ9 UniRef90_UPl00042B315E UniRef90_M5VX71 UniRef90_UPl00042B898B UniRef90_V4LCL0 UniRef90_A0A059CC89	APYSNVAD	GLAFF	A P V D T Q P	Q N ∏G R A G F	LGVF N S
UniRef90_M4CR28 UniRef90_UPI0002C2FD32 UniRef90_V7BV60 UniRef90_J3MIC9	E N D WI A G E	GFAF <u>LI</u>	AS DWII	PENSYGQW	LGLT N A T
UniRef90_I1QF94 UniRef90_N1QYP8 UniRef90_M4CR27 UniRef90_M4DUR5 UniRef90_B9SPG3	PQNRSEDN	GLSFFL	.AHYPSRL	L P N S G G E N	LALFDFSN
UniRef90_UPI0003EA95F5 UniRef90_Q3E884 UniRef90_A5B319	P P G V E G G H				
UniRef90_A0A059DCS6 UniRef90_M7Z6J4 UniRef90_R0H930 UniRef90_M4DSH6 UniRef90_M5WQC8 UniRef90_W5CMW9 UniRef90_K7M2N9 UniRef90_T1MEF0 UniRef90_Q9M1G4 UniRef90_B910M1 UniRef90_B910M1 UniRef90_A0A022PPT9	PPSSDGGY	GLAFVV	APKTS F	P G A Q A D H Y	□ G □ F
UniRef90_V7CE75 UniRef90_Q9FJI4	A A NLG F G D				
UniRef90_UPI000234FD0C UniRef90_M4DR70 UniRef90_UPI0002B4510E UniRef90_Q852A9 UniRef90_W5F2E0	APGME <u>V</u> GH	GMAFFL	.JA P [V] G S N [V	F I N S F G G F	LJA LJF

	1 10 20 20	40
UniRef90_B9l3D8	1	P V
UniRef90_V7CE22	N E I V A V E F D S F	ΚW
UniRef90_F6GSH6 UniRef90_Q0DY65	L LAVEFDTGQNPEFNDI DGNHVGI DLNNI ESESDG NGFAAVELDSVKQPY DIDDNHVGLDI NGVRSNASAS	s N
UniRef90_UPI0002C31409	N MIL VITIVIE F D S W G N D W D P H P P A A HILIGII INII IN KII IS S AII IT A I	ŇŴ
UniRef90_W5CJ26	ANREFALELDTGVNKEFGDIDDNHVGADLNNLTSTVSS	T A
UniRef90_Q7XUC6 UniRef90_UPI0002C344E3	ANRIVAVEFOTRK SYDEDLDSNHVGLDVNGLRSVVQY	PL
UniRef90_W9SEI2	NHVFAVEFDVFKNQEFQDIDDNHVGLNVNSLTSMEFK DQYLDQEFGDIDDNHVGININDMRSVVSA	ΚI
UniRef90_M4CGQ3	D Q Y L D Q E F G D L D D N H V G L N L N D M R S V V S A	S A
UniRef90_F2EHC4 UniRef90_A0A059BCZ6	NRIVIVEEDISANPEY DPPEOHIGININSISSIVHS	O W
UniRef90_Q9FHX3	NRIVTVEFDTSANPEY DPPEQHIGININSISSIVHSODSFIAVEFDTRFDPVHGDINDNHVGIDVSSIFSVSSVSRNILALELGTIMNPKLNDLDDNHVALNINSLISVNYH	ĎF
UniRef90_K3ZF83	S R N L L A L E L G T L M N P K L N D L D D N H V A L N L N S L I S V N Y H	ΤА
UniRef90_I1H2L8 UniRef90_Q0DJV3	S Q N I LA I E L D T F M N P D L N D M D D N H V G I D V N S L I S L N S H	ТΔ
UniRef90_R0FDZ8	S N HIVIE AIVIE E D TIVIO G E K D G N RII IG N HII IGII IN E N SII IS S S O K E I	FF
UniRef90_UPI0002B4DA98	SNKI VALEFDTRKN FPQDLDSNHVGLNVNSVYSLAQQ	PV
UniRef90_M4CN93 UniRef90_UPI00046DF654	SNKI VAI EFDTRKN FPQDIDSNHVGLNVNSVYSIAQQ NHVFAVEFDTVQGSGDDDRIGNDIGLNFNNRTSNKRE FVAVEFDVSQNLEAADPTAYHVGINVNSVKSKVTR	DF
UniRef90_M0SXP9	ANHIIAVEFDTRK SYPQDLDDNHVGLDVNGI ISKAQTI NGFAAVELDAVKQPY DPDDNHVGI DVNGVRSSRHA NHVFGVELDTLMTTEFRDPDNNHVGI DI NGLHSVAVH	ΝÜ
UniRef90_I1ID57	ANHILAVEFDTRK SYPQDLDDNHVGLDVNGI ISKAQTI NGFAAVELDAVKQPY DPDDNHVGI DVNGVRSSRHA NHVFGVELDTLMTTEFRDPDNNHVGI DI NGLHSVAVH	AS
UniRef90_M8AZG0 UniRef90_F2D5A6	SARIFAVELIHTSRNVQLIHDINDNHVGVDVDSSLVPRFQI	A A
UniRef90_F2D3A0 UniRef90_A0A058ZRU8	SARIFAVELHTSRNVQLHDINDNHVGVDVDSSLVPRFQ NYVFSVELGAMQSSEFQDINDNHISIDLNGLTSVMAA ANRIVAVEFDTRRSVEAGDIDGNHFGVDNNGQYPLSNL NSLVAVEFDSFTNEWDPPENSPHIGIDINTIESSVVV	PA
UniRef90_I1J0Z7	ANRI VAVEFDTRRSVEAGDIDGNHFGVDNNGQYPLSNL	SI
UniRef90_UPI00032ACCC8 UniRef90_G7JU26	N S I V A V E F D S F T N E WD P P E N S P H I G I D I N T I E S S V V V	PW
UniRef90_G73026 UniRef90_A9SXX2	FALEFDTRQDTQFQDMNDN <mark>H</mark> VGVDFSSLVSSGAT	PV
UniRef90_V4LJU4		
UniRef90_Q7XX97	DQFVSVEFDTYNNTEQPKQTGDHMGININTVTFSTNT. STRVLAVELDLAKAPDVGDLSDNHVGIDVNSAKSVLSAI	TS
UniRef90_M4DUR6 UniRef90 C8KIS6	STRVLAVELDLAKAPDVGDLSDNHVGIDVNSAKSVISAI	P W
UniRef90_UPI000234E56C	ADRFVAVEFHTYNNSF <u>D</u> PQDSWDHVGI DLNR <u>ANGNV</u> TS	L P
UniRef90_Q75KS7	SQNLLALELDTFMNPDLNDMDDNHVGLDVNSLLSINSH	TA
UniRef90_M5WJK6 UniRef90_M7YRF3	S H QT V A V E F D T C Y N M N WD P S G Y H I G I D V N S K S V A T V A D R F V A V E F D T C Y N M N WD P S G Y H I G I D V N S K S V A T V A D R F V A V E F D T Y D N S F D P Q D S WD H V G I D L N R A N G N V T S S Q N I L A I E L D T F M N P D L N D M D D N H V G I D V N S L I S I N S H N H A F G V E F D V F Q N Q E F N D V N D N H V G V D V N S L T S L V S Y I D R F I A V E F D T Y D N S WD P N T T Y D H I G I D I S S I M D S V N T H T L A V E F D T X WN H G WD P S N G D H I G V D V N G I R S N R T R S Y I S I W S I S I M D S V N T D T L A V E F D T X WN H G WD P S N G D H I G V D V N G I R S N R T R S Y I S I W S I S I M D S V N T D T L A V E F D T X WN H G WD P S N G D H I G V D V N G I R S N R T R S Y I S I W S I S I M D S V N T D T D T S S I M D S V N T D T D T D T S S I M D S V N T D T D T S S I M D S V N T D T D T S S I M D S V N T D T D T S S I M D S V N T D T D T S S I M D T S T D	K A T D
UniRef90_M8AZC3	HTLAVEFDTRWNHGWDPSNGDHLGVDVNGLRSNRTR	s P
UniRef90_UPI0001E2C2D4	DRFIAVEFDTY DNSWDPNTTYDHIGIDISSIMDSVNTTHILAVEFDTRWNHGWDPSNGDHIGVDVNGLRSNRTREDKSIAVEFDLYQNTDLDDPESSHAAIMLNGNNSHYVALLFAVEFDSAQNKEVMDINANHVGIDIESLISSKTAHIFAVELDTWQNPEFGDLNNNHIGININGLTSVKSH	D C
UniRef90_A9NK70 UniRef90_F2E5K1	HILE AVEL DE WONDE E GOLL NINN HIL GIL NILN GILT SVK SH	D V
UniRef90_B9IG28		
UniRef90_Q7XNC0	DRFIAVEFDTYDDTERPRPAGDHIGIDVSSVASINTT QILLVEFDSFANEWDPSPQFSHIGIDVNSLKSVAFS QLIAIELDTLESLGIDVVEKPHVGIDLNSPTSIEST	
UniRef90_UPI00032AA13C UniRef90 M4FB21	QILLVEFDSFANEWDPSPQFSHIGIDVNSLKSVAFS	SI
UniRef90_W5DRL6	DPIV VIAITIEFD FRKSYED DILIDGN <mark>H</mark> II IGII IDII IN NII IKSII IRQYI	P L
UniRef90_V4TWW2	NNVFGLEFDLVQNQEFYDLNNNHVGLNVNSI TSVYWF	QD
UniRef90_M0ZB80 UniRef90_A0A059ATS0	S L F A ME F D T L Y N A Q F S D T K N K Y V G V D G D S L V S L N S A I	N I
UniRef90_UPI0004727072	<u> </u>	G <u>W</u>
UniRef90_B9SZX6	S N H V A V E L D T D Q D F Q F D D I D N N H L G I D I N G L V S I R F R I	ELL
UniRef90_UPI000248D2A3 UniRef90_M4CE67	FAVKFDTFDNKTYNDPSDNYVGLAQNGNVANTNP SSRIFAVELDTVQSAEFDDINNNHVGVNVNSLTSTVSA	PILL
UniRef90 J3LVH2	RFIAVEFDTYDDSERPKPLGDHIGIDVSSVNSLNRT	sL
UniRef90_I1IP50		
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UniRef90_B4VP15	I GI E F DI Y E N S DI S D P N N N H I A G S V N H E Q P L A S P	PF
UniRef90_UPI00032AA955	N S FL GVE F D T S K D D N V G D L N A N H V G I D F G S L V S V A V A	NV
UniRef90_UPI00046DC12E UniRef90_UPI000289E336	K V V A V K F N A L R D D K V H V G I DIV G S S V S A K V S I	ΝĖ
UniRef90_D7TRR2		
UniRef90_Q54UD6	VALEFDTHKNDENGDPNN <mark>NH</mark> ISIQK <mark>C</mark> EENRSSFH	RY
UniRef90_I1JLU9 UniRef90_W7BNL0	VVGVEFSASKSGRKGVSSSCDVNMNIGG SVVAKI FAVEFDTHYNSEFDPKGKNHIAWGYPGKKSTYHD LAUEFDTWFNTEQPDTFYDHVTTYSNGQKENSTV	K S F W
UniRef90 K3WJM2	LAI EFDTWFNTEQPDTFYDHVTIYSNGQKENSTV	ΞĤ
UniRef90_F4Q9T6	LALEFDTCK LYDDPNNNHI SLQTRDKEPNNFR	ΗK
UniRef90_UPI00026C8D80 UniRef90 C5XAG5	R S F A V E F D T Y H N R T D M D I S Y N H I A Y S F P E L R S S Y Y L I A D P M L A V E V D S H G D F G W D P I M S P H I G V D I S T L Q S S Y K A L	N N
UniRef90_C3XAG3 UniRef90_S8CF13	R F F E V E F G T S V D R N L G D L N G N H V S I H V G S P V A V E T S	ŇV
UniRef90_R2SWB3	FAVEFDTYYNPGREDSYGERYTWQSSLNHQSTQV	ΥN
UniRef90_L1JZ61 UniRef90_L8H1N2	LIAII E F D I F A N R DII G D LIN D LIH T C LIA S Y G S L R N T O	GR
UniRef90_A0AGS7	LAILEF DT WF NT E Q P DT F Y D H V T I Y S N G Q K E N S T V L A I E F DT WF NT E Q P DT F Y D H V T I Y S N G Q K E N S T V L A I E F DT C K L Y D D P N N N H I S L Q T R D K E P N N F R R S F A V E F D T Y H N R T D M D I S Y N H I A Y S F P E L R S S Y Y L A D P M L A V E V D S H G D F G W D P I M S P H I G V D I S T L Q S S Y K A I R F F E V E F G T S V D R N L G D L N G N H V S I H V G S P V A V E T S T S V D R N L G D L N G N H V S S L N H Q S T Q V L A I E F D T Y A N R D I G D I N D L H T C L A S Y G S L R N T V L A L E F D T Y L D E N L G D P N S N H I S V H H T T P E R V H N S L A L E F D T Y F N G D G F D S P R N H I G F N T N W H Y S A K E S I	Ġ
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lupas_21		

lupas_21 lupas_14 lupas_28 jnet conf sol25 sol5 sol0 jhmm jpssm

	50 60 70 80
UniRef90_B9l3D8 UniRef90_V7CE22	
UniRef90_F6GSH6	ETDSAGNAYASVSYEPLEKRL DVVVRYPGSSVTSLSFVID TMRNGQNIRAWIEFDGPQFEINVTIAPSKPSRPLISYNPK
UniRef90_Q0DY65 UniRef90_UPI0002C31409	TTTDDGNYFVWVDYNGTSRHVWVYMAKNDPSTPVLDAPLD SPSDGKIGNAWITYNATATNLTVFWTFDDSSTSSLTYQVD
UniRef90_W5CJ26 UniRef90_Q7XUC6	GYYSGNVNPMQVWVDYIDMQLDIRLAPVAMYKPSLYYPVDSLSSGFDLFVSISYKSRFRLLAMQLSTRGLHVVVQAWPID
UniRef90_UPI0002C344E3	
UniRef90_W9SEI2 UniRef90_M4CGQ3	ELKNGVNYQVWIDFDSRINVSMAPAGKRRPRRALISESLDGYYDDEDGQCKNLSLISRNVMRLSLVYSQPRKPLLSLKQD
UniRef90_F2EHC4 UniRef90_A0A059BCZ6	DIHSGNATNVVVTYNSTGKNLKKPLAFLPNRPCS
UniRef90_Q9FHX3	DLKSGKKMMAWIEYSDVLKLIRVWVGYSRPTSPVLSTQID GFYTEQVFQLWVDYDGKAQQLNVTLGFPKPKYPLLSNTLN
UniRef90_K3ZF83 UniRef90 I1H2L8	
UniRef90_Q0DJV3 UniRef90_R0FDZ8	GFYTSPLQLWVDYDGKAHQLNVTLGLPYPEYPLLSSLVNQLTSGEPIHVVLEYHGPTKRLNLTVYPTRPLIPLISREVP
UniRef90_UPI0002B4DA98	NII IS S A N F II IY G T II V IF D G N NIV IS II IY IV IT T S II ID O II IK NII V I IF O P II ID
UniRef90_M4CN93 UniRef90 UPI00046DF654	ELESGNPIQALLNYDGATQTLNVTVYPAKPTKPLISRQIPNITEGRVNSASIHYDSGSKNLSVTFTTYENGVSYLYYKVDNLSSGSDLVVNLQFDALSNSVTFNETVRGTYLFNFVSYVD
UniRef90_M0SXP9 UniRef90_I1ID57	NISSGSDLVVNLQFDALSNSVTFNETVRGTYLFNFVSYVD
UniRef90_M8AZG0	LTPFGINYMVWVEYNGTSRHVWVYMAKSRPGTAVLDAPLDGYHSGKAMQVWVDYHGESTQINVFLAPAKPARPLVSSMYNSLISRKAMQVWVDYDGRATEITVTIAPAKPKKPLLRTITD
UniRef90_F2D5A6 UniRef90_A0A058ZRU8	S L
UniRef90_I1J0Z7	V L A S GIV DIV WIV GIL T Y D G A T VISIV Q A IV Q E G R T F A Y S WIL A D
UniRef90_UPI00032ACCC8 UniRef90_G7JU26	TID Q G S G K A G L T Y G S N S K E L S V I V T Y E N S P T S T L S Y P L D
UniRef90_A9SXX2 UniRef90 V4LJU4	V L A S G N H L Q A Y V T Y N S L A H V L D V S L S Y V K P A E S L L S V P L D
UniRef90_Q7XX97	VSSFSPNESMMITFDSKTSMLVASLQYTGNYSNYAPVNVD
UniRef90_M4DUR6 UniRef90_C8KIS6	KLLSGDPIQVWVDYEGTT LNVSLAPLRNKKPSQPTSINVFRNGEVADAVITYFGDTNYLSVTLIYESQEAYELGHFVD
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UniRef90_M5WJK6	GYWNGANYQVWIEYWNYQLSITLAENVKKPERPLIQIPLD
UniRef90_M7YRF3 UniRef90_M8AZC3	S F S L N G T M T A T V T F D N T T R M L V A D L Q F D D Q S Y N L P V R V D P L S L H G I M W A S V T Y D A E S K V M K V A L R K E S S T T Y E F N A T M D S S L Q G S L I N A W V D Y N N G T V T A T F G T E N S R S N E G N I T I S R D
UniRef90_UPI0001E2C2D4 UniRef90_A9NK70	S S L Q G S I I N A W V D Y N N G T V T A T F G T E N S R S N E G N I T I S R D S L N D G T Q L H A W I D Y D A R S K V L E V R L S K S K P S A P L I S H S V D
UniRef90_F2E5K1	S L N D G T Q L H A WI D Y D A R S K V L E V R L S K S K P S A P L I S H S V D T L S S Q E A M Q V W V D Y D R E K T Q L D V T M A P T K P Q Q P T V S A R Y N
UniRef90_B9IG28 UniRef90_Q7XNC0	N F S R N G A M R A S I T F D N V T R M L V A T V Q F T D Q T T A S R A A P V D
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UniRef90_W5DRL6	SLISSGSDVIWVISII RYHGTSKIL IFQIVIFIL VIQHNII RGRYIVIY QYII D
UniRef90_V4TWW2 UniRef90_M0ZB80	NQNKTNWWHFHALKLNNGKI YRVWLDYKDPLWPLLNVFI D SVISWKALQVWVDYDSKATVITMTMAPVRPKQPMLQTTLD
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UniRef90_D7TRR2 UniRef90_Q54UD6	SLA CA DPSFIMKDGLAHKVDNQFNQKNTTLSVTLDSVKLI
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UniRef90_S8CF13 UniRef90_R2SWB3	SLNSGLKLHSRIDYDATSKRFELSFSDRRPYDPLLVYRID SLANDQWNKFTVFWDSKKQTL TYQYGSSPQVAVPID
UniRef90_L1JZ61	LLQDGEVHQVMIVYTPGVQFNPQSQQWSSKRYLLRVFID EETALTPPGAVTNYNVQYLEKQLSVYLDDSASPAYQTTLD
UniRef90_L8H1N2 UniRef90_A0AGS7	N M S N G N W K E VQ L V Y N A T S T D V G T G F S F S T G V N F N F D G K G D

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L A K V L P T T A Y V G F
L S R Y L S E E I Y V G F 100
S A S K T T WV E A Q R | L A W S F
S G A T G Q L V E | H N I L S W T F T S A F
S A S K T N WV E A Q R I L A W
S A S T G E T Y E L N C V L M W N M T V E M
S A S S G L F L G R H F L C S W T F
S A S N G D W P D W C Q I L G W S F N M Y
A G S T G E F T E L N Q L K S W K F I UniRef90_B9I3D8 UniRef90_V7CE22 TSAFY UniRef90_F6GSH6 UniRef90_Q0DY65 UniRef90_UPI0002C31409 UniRef90_W5CJ26 UniRef90_Q7XUC6 UniRef90_UPI0002C344E3 MYVGFTGASGQLVESHRLAWS LYLGFTASTGSVGASHYMMGWF UniRef90_W9SEI2 UniRef90_M4CGQ3 DVFLDE PYLLEE CACCYLPP: TSDLDAVRP: RTFGSH: KTN UniRef90_F2EHC4 UniRef90_A0A059BCZ6 UniRef90_Q9FHX3 UniRef90_K3ZF83 UniRef90_I1H2L8 UniRef90_Q0DJV3 UniRef90_ITH2L8
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