QUERY	1 10 20 30 40 GKLTFYEDRGFQGHCYECSSDCPNLQPYFSRCNSLRVDSG
UniRef90_UPI0003C03B87 UniRef90_M7BZL8	LTFYEEKHFQGRRYE <mark>C</mark> DSD <mark>C</mark> PDFHTYLSR <mark>C</mark> NSLRVEGG
UniRef90_UPI0003C42527 UniRef90_I3M2Q0	GKITFYEDRSFQGRCYECSSDCPNLQTYFSRCNSIRVDSG GKLTFYEDRAFQGRSYECTTDCPNLQPYLSRCNSIRVESG
UniRef90_G1R672 UniRef90_W5M832 UniRef90_UPI000440A504	R C N S I I R IV F S G
UniRef90_I3K897 UniRef90_G3WBN1	GKI I FYEDRNFQGRSYECSTDCADLHSHFSRCNSI QVESGGRI VFYEDKNFQGRRYECDSDCSDFHAYLSRCNSI RVESGRMRLYEREDYKGQMMELTDDCSCVHDRFNEI YSLNVLDGRMRLYEREDYKGQMMELTDDCSCVHDRFNEI YSLNVLDGRMRLYEREDYKGQMMELTDDCSCVHDRFNEI YSLNVLDG
UniRef90_G3WBN1 UniRef90_W5KU96	RMRLYEREDYKGQMMELTDDCSCVHDRFNEI YSLNVLDG IIFYEDRNFQGRSYETSSDCPELTSYLSRCNSCRVENG
UniRef90_A7E2N2 UniRef90_G1M9M8	KITFYEEKNFQGRHYD <mark>C</mark> TGD <mark>C</mark> ADMQSHFNR <mark>C</mark> NSIRVDSG RLRLYEREDHKGLMMELSED <mark>C</mark> S <mark>C</mark> IQDRFHEIRSLHVLEG
UniRef90_B5DDL7 UniRef90_F6TF27	
UniRef90_H2SLD0 UniRef90_P48649	GKITFYEDRNFKGRSYECSSECSDLHSHFSRCNSIRVDSG GKVIFYEDRNFQGRHYECSSDCADLSPYFSRCNSIRVEGG
UniRef90_I3K815 UniRef90_G3HVI7 UniRef90_W5QC70	
UniRef90_P11844 UniRef90_B0UYN9	GKITFYEDRDFQGR <mark>C</mark> YN <mark>CI</mark> SD <mark>C</mark> PNLRVYFSR <mark>C</mark> NSIRVDSG GKLIFFEDRNFQGRHHE <mark>C</mark> SSD <u>S</u> ADLHPYFTQ <mark>C</mark> NSLRVESG
UniRef90_H3A118 UniRef90_H3A118	Y E D R N F Q G R Y Y E C S S D C A D M H S Y F S R C N S M R V H S G Y E D R N F Q G R Y Y E C S S D C A D M H S Y F S R C N S M R V H S G
UniRef90_L9L808 UniRef90_UPI0004574C65	GKITFYEDRDFQGRCYNCISDCPNLRVYFSRCNSIRVDSGGKIIFFEDRNFQGRHHECSSDSADLHPYFTQCNSIRVESGYEDRNFQGRYYECSSDCADMHSYFSRCNSMRVHSGYEDRNFQGRYYECSSDCADMHSYFSRCNSMRVHSGGKITFYEDRGFQGRYYECSSDCADMHSYFSRCNSMRVHSGGKITFFEDKNFQGQCYECSTDCSDLHTFFARCNSIRVEGGKIRLYERPDMAGQMQEVSDDCPNVQDRMSDINSCNVVDDGKIRLYEGGKIRLYERPDMAGQMQEVSDDCPNVQDRMSDINSCNVVDDGKICLFEGANFKGNTMEIEDDVPSLHGFRDRVGSVRVSSGGKITFYEDRNFQGRCYECSGDCADLQAYFSRCNSIKVESGGKITFYEDRNFQGRCYECSGDCADLQAYFSRCNSIRVDSGKILFYEDSG
UniRef90_H3C0S3 UniRef90_UPI0002C6461B	KI RLYERPDMAGQMQEVSDD <mark>C</mark> PNVQDRMSDI NS <mark>C</mark> NVVDG KI <mark>C</mark> LFEGANFKGNTMEI EDDVPSLHGFRDRVGSVRVSSG
UniRef90_UPI0003D10157 UniRef90_Q5EF40	I I F Y E G R N F E G R S H E V T S D Q P D M H S H L S R C N S I K V E S G G K I T F Y E D R N F Q G R C Y E C S G D C A D L Q A Y F S R C N S V R V E S G K I I F Y E D R N F Q G R Y Y E C S G D C A D M H S Y F S R C N S I R V D S G
UniRef90_W5N307 UniRef90_UPI0002C67435 UniRef90_UPI0003C0FE44	GKI TFFEDRAFQGRRYECTSDQPNLQPHLSRCNSI RVDSG
UniRef90_UPI00045725A0 UniRef90_H0ZBN7	QVIFYEDKNFQGRRYECSTDCADLQSYFSRCNSIRLDSARIVVFDQENFQGRQMEFTAECLNLADRFDRVRSVIVTSGGKITFYEDKNFQGRHYECSTDCTDLQSYFSRCNSIRVDSDRIRLYEREDYRGQMVELTEDCPSLQDRFHELHSLNVLEG
UniRef90_UPI0004573D28 UniRef90_UPI00032B0500	RI RIYEREDYRGOMVELTED CPSLIODREHEI HSLINVIEG
UniRef90_H2ZUT0 UniRef90_S7PVV6	KI TFYED C GFQGRRFE C SSDHPN L QPYL SRC N SI RVD SG
UniRef90_UPI0004572E3B UniRef90_Q4S9S2	RMMIYEQENFQGRHMEFTTECVNLCERFDRVGSVRVDCGGKIVFFEDKNFQGRSYECATDTPDLRTFFSRCNSIKVQSG
UniRef90_UPI000440E3AB UniRef90_Q5XTN3 UniRef90_M7ANJ5	GKI I FYEDKNFQGRSYECATDTPDLRTFFSRCNSI KVQSGKI I FYEDKNFQGRSFECDTDCADMHPHFSRCNSI RVESGGKI I FYEDRNFGGRYHECMSDCADLHSYFNRCHSI RVESGI I LFEDRNFQGRSVECSSDRPDLQSQLSRCNSVRVESG
UniRef90_M7ANJ5 UniRef90_M7ANJ5 UniRef90_W5LDY3	
UniRef90_W5LDY3 UniRef90_UPI0003EAA25D	I I L F E D R N F Q G R S V E C S S D R P D L Q S Q L S R C N S V R V E S G I L L F E D R N F Q G R S V E C S S D R P D L Q S Q L S R C N S V R V E S G Q I I F Y E D K K F G G H Y Y E C S S D C A D M L S Y L K C C N S I K V E D G Q I I F Y E D K K F G G H Y Y E C S S D C A D M L S Y L K C C N S I K V E D G G K I I F Y E D R N F G G R S Y E C S S D C A D L H S Y F S R C N S I R V E S G
UniRef90_I3KDK1 UniRef90_H3B5N0	K MRVVY E R P E F Q G S M M E F M D D C E N V H D R F H E I H S C N V M D G
UniRef90_H3B5N0 UniRef90_K7G0E5	K MRV Y E R P E F Q G S M M E F M D D C E N V H D R F H E I H S C N V M D G G K I T L Y E D R N F Q G R S F E C S G D H P D F Q S Q L S R C N S V R V E S G
UniRef90_G3PN80 UniRef90_Q91320	GKI FYEDRNFQGRSYECSNDNPDLQPNFNACNSVRVENG
UniRef90_UPI0002BCD471 UniRef90_UPI0001DE7D56 UniRef90_F7ASM7	GKI TFYEDRNFQGRSYECSNDNPDLQPNFNACNSVRVENGGKI TLYEDWGFQGRRYECSSDCPNLQPYFSRCNSI RVDSSGKI TFYEDQNFQGHSYECDSDCNDMTSYFLRCNSI RVDSSGKI TFYEDRNFQGRHYECGSDCSDLSSYFNHCNSI RVESGGKI FFYEERNFQGRHYECGSDCSDLSSYFNHCNSI RVESGGKI FFYEENFQGRHYECGSDCSDLSSYFNHCNSI RVEGGKI LFYEDNNFSGHHFECCNDCEDLLSRLSRCNSI KVESGKMRI YQRPDYRGHMMEFMEECPSVYDRFHDI YSCNVMDGKMRI YQRPDYRGHMMEFMEECPSVYDRFHDI YSCNVMDGKI TFYEDKNFQGRHYDCGCDCVDFHSYLSRCNSI RAEGAKI FLFDQENFQGRMMEVQNECMNVCERMDRVRSI I VECGKMRI YKKGDYQGQMMEFFDDCPNTYDRFHDI HSCNVFDGKMRI YKKGDYQGQMMEFFDDCPNTYDRFHDI HSCNVFDG
UniRef90_UPI0003343512 UniRef90_UPI00022B3BF8	I I L F E Q E N F Q G H S H E F S G P C P N L K E G M D K A G S V L V Q A G G K L F Y F D N N F S G H H F F C C N D C F D L L S R L S R C N S L K V F S G
UniRef90_H3B5F7 UniRef90_H3B5F7	KMRI YQRPDYRGHMMEFMEECPSVYDRFHDI YSCNVMDG KMRI YQRPDYRGHMMEFMEECPSVYDRFHDI YS <mark>C</mark> NVMDG
UniRef90_G5BT93 UniRef90_Q90WT1	KI T F Y E D K N F Q G R H Y D C G C D C V D F H S Y L S R C N S I R A E G A K L F L F D Q E N F Q G R M M E V Q N E C M N V C E R M D R V R S L L V E C G
UniRef90_F6RDA1 UniRef90_F6RDA1	K MRII Y K K G D Y Q G Q M M E F F D D C P N T Y D R F H D I H S C N V F D G C N V F D G C P N T Y D R F H D I H S C N V F D G C N V F
UniRef90_G3PN87 UniRef90_W5LNE6 UniRef90_E6ZG41	K MRI Y K K G D Y Q G Q M M E F F D D C P N T Y D R F H D L H S C N V F D G  G K L I F Y E D R N F Q G R S Y E T S S D C P E L T S Y L S R G N S C R V E S G  R MRI Y E R P D F Q G Q M M E F S D D C E S V Q E R F R D L Y S C N V M D G  K L V V F E F E N F R G K K V E L S G E C K D A F E K T E R V G S V L V E S G  Q L T F Y E D R A F Q G R R C Q C S G D H A N L Q P Y F S R C N S V R V D S G
UniRef90_UPI00034F71AD UniRef90_UPI000334393F	G N IVIV LIF 3 E P G C R G 3 3 R E IV IV E D IV II D A 3 A W A R IV IA 3 IV IN IV I IR G
UniRef90_UPI000334393F UniRef90_H2UW39	GKM <u>VL</u> FSEPGCRGSSREVWEDVTDASAW AR <u>V</u> ASVK <u>VI</u> RG
UniRef90_UPI00034F65AF UniRef90_UPI0003C90746	GKITFYEDRAFQG D <mark>C</mark> PNLQPYFSS <mark>C</mark> NSVRVDSG GKVVLFSEPG <mark>C</mark> QGSSRVVWDDVADASGWAPTA SLRVVRG
UniRef90_UPI0003C90746 UniRef90_F6Z4S4	GKVVLFSEPGCQGSSRVVWDDVADASGWAPTA SLRVVRG KITVFELENFQGKRYDLTRECPNLEDRLEKVGSLQVEQG
UniRef90_G3P1M0 UniRef90_UPI0002233C42	GKITFYEDRAFQG GKVVLFSEPGCQGSSRVVWDDVADASGWAPTA SLRVVRG GKVVLFSEPGCQGSSRVVWDDVADASGWAPTA SLRVVRG GKVVLFSEERFQGKRYDLTRECPNLEDRLEKVGSIQVEQG GKITVFELENFQGKRYDLTRECPNLEDRLEKVGSIQVEQG GKITFYEDRGFQGRSHETSSDCAELTSYLSRCNSCRVESG GKITFYEDRGFQGRSYECSCDHANLXPYLSRCNSVRVDSG GRIIFYEDRNFQGRHYECSTDCEDLQSYFSRCNSIRVESD GKITFYEDRNFQGRHWELLNECGNLGERFDRVRSVIVESG KMLVLFEQENFQGRHMELLNECGNLGERFDRVRSVIVESG KMLIYELENFQGKKSELSGECQNLSEGLEKVGSVQVESG KMKIYERENFGGQSHELSEDCDNIQDRMNDCQSCHVMDDG GKIFYEDRNFGGRHHECTSDCADLHSAFDRCRSVRVESG
UniRef90_UPI0004575AB8 UniRef90_W5LND2 UniRef90_Q9W6T4	GKI I FYEDRNE GRAME I NECSIDUE DL QSYESKUNSI KVESD GKI I FYEDRDE GRAME I NECSEL NSHLSR CHSVEVES G KI VI FEOENE GRAME I NECSEL NSHLSR CHSVEVES G
UniRef90_H3AXG5 UniRef90_G3P1M5	KML I Y ELE N F Q G K K S EL E G E C Q N L S E G L E K V G S V Q V E S G K M K I Y E R E N F G G Q S H L S E D C D N I O D R M N D C O S C H V M D G
UniRef90_G3P1W6 UniRef90_W5KHC9	GKITFYEDRNFGGRHHECTSDCADLHSAFDRCRSVRVESG KLHLFENGGFTGRKMEVDDDVPSLHGFQDRVASVKALNG
UniRef90_W5MMF6 UniRef90_UPI000457139A	R N F Q G W H Y E <mark>C</mark> [ T D <mark>C</mark> E D [ Q S Y F S H <mark>C</mark> N S [ H [ R S D
UniRef90_Q52JI4 UniRef90_UPI0003942C5E	KILVI Y F O F N F O G R C H FILIT G P C N NILIO F GIVIF KIVIG S IV L VIO C G
UniRef90_G3WAI8 UniRef90_G3WAI8	KI TI FEKDNFILGRQWEI ADDYPSLQAMNNEVGSMKI Q <mark>C</mark> G I SLFSKEGNEGVQVKLTEALEDAQGQGQPASSVTVTAG I SLFSKEGNEGVQVKLTEALEDAQGQGQPASSVTVTAG

QUERY	50 60 70 80 CWMLYERPNYQGHQYFLRRGDYPDYQQWMGFNDSIRS <mark>C</mark> RL
UniRef90_UPI0003C03B87 UniRef90_M7BZL8	L N S I P A A WVVY E R P N F A G N M F V L T H G E Y P E Y Q R WM G L N D R L S S C K A
UniRef90_UPI0003C42527 UniRef90_I3M2Q0	S S K K L S WML Y E R P N Y Q G N Q Y L L R R G E Y P D Y Q Q WM D L S D S I S S C L L C WMI Y E R P N Y Q G H Q Y F L R R G E Y P D Y Q Q WM G L S D S I R S C C L
UniRef90_G1R672 UniRef90_W5M832	C WMI Y E R P N Y Q G H Q Y F L R R G E Y P D Y Q Q W M G L S D S I R S C C L C W V L Y E R P N Y M G Y Q Y V L N R G E Y P D Y Q R W M G F N D C I R S C R V
UniRef90_UPI000440A504 UniRef90_I3K897	C WMV Y E R P N F T G Y Q Y F L R R G E Y P D Y Q R WMG F N D C V R S C R M A WV V Y E R P N Y M G Y Q Y V L S R G E Y P E Y Q R WM G L N D H L S S C K M
UniRef90_G3WBN1 UniRef90_G3WBN1	C WI L Y E M P N Y R G R Q F L L R P G E Y R R Y L D W G A M N A K V G S L R R C W L Y E M P N Y R G R Q F L L R P G E Y R R Y L D W G A M N A K V G S L R R C F M L Y E R S N Y M G H Q M L V R R G E Y P D S Q V L M G I S D C I K S C R M
UniRef90_W5KU96 UniRef90_A7E2N2 UniRef90_G1M9M8	C F ML Y E R S N Y M G H Q ML V R R G E Y P D S Q V L M G I S D C I K S C R M S W V A Y E K P N F S G Y Q Y M L F K G E Y P D F Q H W A G F N D C I R S C R V C W V L Y E L P N Y L G R Q Y L L R P Q E Y R H Y R D W G A M D A K A G S L R R
UniRef90_B5DDL7 UniRef90_F6TF27	C WMI YERPNY QGHQYFL RRGEYPDY QQWMGLSDSIRSCCLC WWLYERPNYMGYQYVLNRGEYPDYQRWMGFNDCIRSCRW AWVYERPNFTGYQYFLRRGEYPDYQRWMGFNDCVRSCRM AWVVYERPNYMGYQYVLSRGEYPEYQRWMGLNDHLSSCKM CWILYEMPNYRGRQFLLRPGEYRRYLDWGAMNAKVGSLRR CWILYEMPNYRGRQFLLRPGEYRRYLDWGAMNAKVGSLRR CFMLYERSNYMGHQMLVRRGEYPDSQVLMGLSDCIKSCRM SWVAYEKPNFSGYQYMLFKGEYPDFQHWAGFNDCIRSCRW CWVLYELPNYLGRQYLLRPQEYRHYRDWGAMDAKAGSLRR AWVLYERPNYMGFQYLLRPQEYRHYRDWGAMDAKAGSLRR
UniRef90_H2SLD0 UniRef90_P48649	D WI VYEKPNFMGYQYFLRKGEYPDYQRWMGFND <mark>C</mark> VRS <mark>C</mark> RM CWVLYEKPNYMGYQYFLTRGEYPDYQRWMGFNDTLRS <mark>C</mark> RL
UniRef90_I3K815 UniRef90_G3HVI7	_MYSVSRGLPMYS
UniRef90_W5QC70 UniRef90_P11844	Y R P G A R L G P H S T E L A S C Q
UniRef90_B0UYN9 UniRef90_H3A118	CFMVYEHPNYMGQQFFLRRGDYSDCQRMIGFSNSIRSCRLCWMLYEHPNYMGYQYFMNRGEYPDYHHWMGYNDSIGSCRMCWMLYEHPNYMGYQYFMNRGEYPDYHHWMGYNDSIGSCRMCWMLYEHPNYMGYQYFMNRGEYPDYHHWMGYNDSIGSCRMCWMLYEQPNYSGCQYFLRRGEYPDYQQWMGLSDSVRSCRLSWVLYEKTNFTGYQYILTRGEYPDFQHWNGYNDSIKSCRQHWLLYDQQNYGGRASPRLGSLRR
UniRef90_H3A118 UniRef90_L9L808	C WML Y E H P N Y M G Y Q Y F M N R G E Y P D Y H H W M G Y N D S I G S C R M C WML Y E Q P N Y S G C Q Y F L R R G E Y P D Y Q Q W M G L S D S V R S C R L
UniRef90_UPI0004574C65 UniRef90_H3C0S3	S WV L Y E K T N F T G Y Q Y [ L T R G E Y P D F Q H W N G Y N D S I K S C R Q H W L L Y D Q P N Y R G R T Y Y L R P G E Y R R Y S D W G G A S P R I G S L R R
UniRef90_UPI0002C6461B UniRef90_UPI0003D10157	T WVGY Q Y P G Y R G Y Q Y L L E P G D F R H WN E WG A F Q P Q M Q A V R R C W M I Y E R S N Y L G H Q Y F L K R G S Y P D Y Q Q W M G F N D S I R S C I I
UniRef90_Q5EF40 UniRef90_W5N307	S WV L Y E Q P S Y K G C Q Y F L K R G E Y S D Y R Q W M G T S D S I R S C R L Y W V L Y E K P N Y M G Y Q Y I L N R G E Y P D Y Q R W M G Y N D C I R S C R M
UniRef90_UPI0002C67435 UniRef90_UPI0003C0FE44	H WL L Y D Q P N Y R G R T Y Y L R P G E Y R R Y S D W G G A S P R G S L R R T W V G Y Q Y P G Y R G Y Q Y L L E P G D F R H W N E W G A F Q P Q M Q A V R R C W M I Y E R S N Y L G H Q Y F L K R G S Y P D Y Q Q W M G F N D S I R S C R L S W V L Y E Q P S Y K G C Q Y F L K R G E Y P D Y Q R W M G T S D S I R S C R M C W M L Y E R P N Y W G Y Q Y I L N R G E Y P D Y Q R W M G T S D S I R S C R M C W M L Y E R P N Y W G Y Q Y V L T R G E Y P D Y Q R W M G F N D S L R S C R M C W V L Y E R P N Y M G Y Q Y V L T R G E Y P D Y Q R W M G F N D S L R S C R M C W V L Y E R P N Y M G Y Q Y V L T R G E Y P E Y Q R W M G F N D S L R S C R M C W V L Y E R P N Y M G Y Q Y V L T R G E Y P D Y Q R W M G F N D S L R S C R W Y V L Y E R P N Y M G Y Q Y V L T R G E Y P D Y Q R W M G F N D S L R S C R M C W V L Y E K P N Y M G Y Q Y V L T K G E Y P D Y Q R W M G F N D S L R S C R L C W V L Y E K P N Y R G R Q F L L R P G D Y P D Y Q Q W M G F N D S L R S C R L C W V L Y E R P N F Q G Y Q Y Y L N R G E Y P D Y Q H W M G F N D S L R S C R M C W M L Y E R P N F Q G Y Q Y Y L N R G E Y P D Y Q H W M G F N D S L R S C R M C W M L Y E R P N F Q G Y Q Y Y L N R G E Y P D Y Q Q W M G F N D S L R S C R M C W M L Y E R P N Y T G N Q Y L T R R G D Y P D H Q Q W M G F N D S L R S C R A T C F M V Y D R T N F M G R Q Y F L R R G E Y P D Y Q R W M G Y N D S L R S C R A T C F M V Y D R T N F M G R Q Y F L R R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y N D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y D S L R S C R M C F M L Y E R P N F Q G Q Q F F L K R G E Y P D Y Q R W M G Y D S L R S C R M C T M C T M C T M C T M C T M C T M C T M C T M C T
UniRef90_UPI00045725A0 UniRef90_H0ZBN7	CWVLYERPNYWGYQYVLTRGEYPDYQRWMGFNDCIRSCRM CWVLYEKPNYMGYQYVLTRGEYPEYQRWMGFNDSIRSCRV PWVAYEQANMRGEMFILEKGEYPRWDTWSSSSDCFMSMRP
UniRef90_UPI0004573D28 UniRef90_UPI00032B0500	Y WV L Y E K P N Y M G Y Q Y V L T K G E Y P D Y Q R WM G F N D N I R S C R T S WI L Y E P N Y R G R Q F L L R P G D Y P D Y Q Q WM G L S D S V R S C R L
UniRef90_H2ZUT0 UniRef90_S7PVV6	C WV I Y E R P N F Q G Y Q Y Y L N R G E Y P D Y Q H WM G F N D S I R S C R M C WM L Y E R P D Y Q G P Q Y F L R R G D Y P D H Q Q W L G L S D A V G S C C L
UniRef90_UPI0004572E3B UniRef90_Q4S9S2	P WVA Y E Q A N F R G E M F I L E K G E Y P R WD S W S N S S D R F M S F R P C WL L Y E H P N Y T G N Q Y I L S H G E Y P D H Q Q W M G F N D S I K S C R A C W V L Y E R P N Y S G Y Q Y V L T R G E Y P D Y Q R W M G Y N D S I R S C R T
UniRef90_UPI000440E3AB UniRef90_Q5XTN3 UniRef90_M7ANJ5	C W V L  Y E R P N Y S G Y Q Y  V L  T R G E Y P D Y Q R WMG Y N D S I   R S C R T C F M V  Y D R T N F M G R Q Y F L   R R G E Y P D Y M R T M G M N D C V R S C R M C F M L  Y E R P N F Q G Q Q F F L   K R G D Y P D M Q S E G F S T S I   K S C R M
UniRef90_M7ANJ5 UniRef90_M7ANJ5 UniRef90_W5LDY3	C F M L Y E R P N F Q G Q Q F F L K R G D Y P D M Q S E G F S T S I K S C R M C F M L Y E R P N F Q G Q Q F F L K R G D Y P D M Q S E G F S T S I K S C R M C F M V Y E Q P Q Y S G Q Q Y F L S K G E Y P E Y Q E W A G L N D L I G S C R V
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UniRef90_H3B5N0 UniRef90_K7G0E5	Y WMF Y E H P S Y K G R Q Y F L R P G E Y R R F S D W G A M S P M V G S F R L C F M L Y E R P N F Q G Q Q C F L K R G D Y P D M Q S E G F S T S M K S C R L
UniRef90_G3PN80 UniRef90_Q91320	SLTSSF CWMITYERPNYMGHPYFIIKRGEYPDYQQCQGIINDSI RSSRII
UniRef90_UPI0002BCD471 UniRef90_UPI0001DE7D56	CWMLYERPNYQGHQCFLRRGDYPDYQQWMGLNDSVRPCHT NWILYEHPNYKGHQYYLKRGEYPDFKQWKAFSDSVRSCHL
UniRef90_F7ASM7 UniRef90_UPI0003343512	N WI LYEHPSYRGHQYYLWQGEYPDFQRWMGFNDNIRS <mark>C</mark> RFPWVGYEQAN <mark>C</mark> KGEQFVFEKGEYPHWDSWTSSTDALSSLRPCFMIYEKPNYSGNQYYLKRGEYPDFHHWMGVNESVSS <b>C</b> RY
UniRef90_UPI00022B3BF8 UniRef90_H3B5F7	Y WI
UniRef90_H3B5F7 UniRef90_G5BT93	Y WILFYEYPYYR GRQYFMRPGHYRRFSN WGGMSPRI GSFRCTWAVYERPHFAGHVYI LPQGEYPECQRWMGLNGRL GSCRA
UniRef90_Q90WT1 UniRef90_F6RDA1	P F VA F E Q T N F R G E M F L L E K G E Y P R W D T W S N S S D C L M S L R P Y W M F Y E E P N Y R G R Q Y Y L R P G Q Y R R Y S D W G A S S A R L G S F R R
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UniRef90_UPI000334393F UniRef90_UPI000334393F	C WML Y E Q P D S P G L Q Y F L R X G D Y P D H Q G W M G L S D A V R S C R L C W L Y K D P E F Q G Q K L V L P E G D A E L G A S G S A W S T Q I G S L R R C W L Y K D P E F Q G Q K L V L P E G D A E L G A S G S A W S T Q I G S L R R
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UniRef90_UPI0003C90746 UniRef90_UPI0003C90746	C WML Y D R P N Y Q G Y Q Y F L R R G D Y P D H H G C M G L S D A V R S C R C WV L Y E E P D F R G Q K L A L P E G D V E L R G L G P A W R P R I G S L R R C WV L Y E E P D F R G Q K L A L P E G D V E L R G L G P A W R P R I G S L R R
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UniRef90_W5LND2 UniRef90_Q9W6T4	Y WW L Y E R P N Y M G Y Q Y V L N R G E Y P E Y Q R W G Y N D N I R S C R G V F V V Y D Q P N F T G R Q Y L L R K G E Y P E Y Q R L M G F S D C I R S C R M P W V A Y E Q S N F R G E M F I L E K G E F P R W D T W S N S S D C F M S V R P
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UniRef90_W5MMF6 UniRef90_UPI000457139A	Y GILLY K R P N Y M G Y O Y IL N M R F Y P D Y O R W M G Y N D N I R I C H
UniRef90_Q52JI4 UniRef90_UPI0003942C5E	P WV G F E Q P G C K G E Q Y V F E K G E Y P R WD S WT N S S D C I V A F R P A WV C Y Q Y P G Y R G Y Q Y V L E G G D Y K H WR E WG S H T S Q I Q S I R R
UniRef90_G3WAI8 UniRef90_G3WAI8	WWL LYSKPYYAGVPCI LEPGIYPS WEAWGASDPHVSSLKPWWLLYSKPYYAGVPCI LEPGIYPS WEAWGASDPHVSSLKP

QUERY UniRef90_UPI0003C03B87 UniRef90_M7BZL8 UniRef90_UPI0003C42527 UniRef90_I3M2Q0 UniRef90_G1R672 UniRef90_W5M832 UniRef90_UPI000440A504 UniRef90_I3K897 UniRef90_G3WBN1 UniRef90_G3WBN1 UniRef90_G3WBN1 UniRef90_A7E2N2 UniRef90_A7E2N2 UniRef90_A7E2N2 UniRef90_B5DDL7 UniRef90_B5DDL7 UniRef90_F6TF27 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_P48649 UniRef90_H3A118 UniRef90_B0UYN9 UniRef90_B0UYN9 UniRef90_B0UYN9 UniRef90_H3A118 UniRef90_L9L808 UniRef90_UP10004574C65 UniRef90_UP10004574C65	I P Q H T G T F R M R L Y E R D D F R G Q M S E L T D D C P S L Q D R F H L S E S S S H G E V G K I T F Y E D R G F Q G R H Y E C S S D H S N L Q P Y F S R I L H S S G G Q H R I Q J F E K G D F G G Q M Y E S T E D C P S V L D E F R I L R E P L D T Q P K S K L T F Y E D R G F Q G R R F E C S S D H P N L Q P Y L S R I P Q H S G T Y R M K L Y E R E B D Y R G Q M S E V T D N C L S L Q D R F R F R N E I P Q H S G T Y R M K L Y E R E D Y R G Q M S E V T D N C L S V H D R F R F R N E I P Q H S G T Y R M K L Y E R E D Y R G Q M M E F T D D C E S V H D R F R F R N E I P Q H S G T Y R M R L Y E R S D F G G Q M M E F T D D C E S V H D R F R F R N E I P Q P A G S H R I R L Y E R S D F G G Q M M E F T D D C E S V L Y D R F R F R N E I P Q F Q G R R R F S G Q M M E F T D D C E S V L Y D G N R F L R I L Y E K A D F G G Q M M E F T D D C D S L L E K F R W R E V Q E F S T D P K T T P H P K T P A K G R L V L L F S L V D G N R F L R V Q E F S T D P K T T P H P K T P A K G R L V L L F S L V D G N R F L R V Q E F S T D P K T T P H P K T P A K G R L V L L F S L V D G N R F R R N S D V P A Y T G N Y R M K L F E R A D F G G Q A M E L N E D C P D L R Q R F H N G D V P A Y T G N Y R M K L F E R A D F G G Q A M E L N E D C P D L R Q R F R R S D V P A Y T G N Y R M K L F E R A D F G G Q M M E F T D D V P S L Y D R F R Q R E L T K Q K M F S L I L F Y E D K N F Q G R C Y E C S S D C A D L H S Y F N S T E L P C Y R S L Y D D C A C V P E L F R L P E F G G G Q M M E F T D D C A C V P E L F R L P E F R L P E F G G G Q M M E F T D D C A C V P E L F R L P E F R L P E F G G G Q M M E F T D D C A C V P E L F R L P E F G G G Q M M E F T D D C A C V P E L F R L P E F G G G Q M M E F T D D C A C V P E L F R R H D L P H F F E K K L L T T A K R S E Y R V L L C K K T P F C S F T F E K L R R H D L P H F F E K K L L R T A K R S E Y R V L L C K K T P F C S F T F E K L R R H D L P H F F E K K L L R T A K R S E Y R V L L C K K T P F C S F T F E K L R R H D L P H F F E K K L L R T A K R S E Y R V L L C K K T P F C S F T F E K L R R H D L P H F F E K K L L R T
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UniRef90_H3AXG5 UniRef90_G3P1M5 UniRef90_G3P1W6 UniRef90_W5KHC9 UniRef90_W5MMF6 UniRef90_UP1000457139A UniRef90_UP10003942C5E UniRef90_G3WAI8 UniRef90_G3WAI8	L R D S S D H K L H L F E N A G Y N G R K M E L D D D V P S L WA H G F Q D R I T D S C N I P A H G G G Y K M R L Y E H F D M R G E M V E L T D N C P N L S E R F R A S N I V R D M Q M G M M A Y K M Y V F D Q E N F Q G R C V E F S G E C M S I C D S G L G Y N S S L F Q I A F Y E D R N F L G R H Y E C S F D C P N L H S Y F R I K V D S Q E H K I V L Y E N P S F T G K K I E I D D D V P S F H A H G Y H E K V Q Q L R L G C P T P K A L V Y E A A D F Q G H C W E V S R D I Y D L R R P E D L S T L R L G C P T P K A L V Y E A A D F Q G H C W E V S R D I Y D L R R P E D L S T

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UniRef90_H3C0S3 UniRef90_UPl0002C6461B UniRef90_UPl0003D10157 UniRef90_UPl0003D10157 UniRef90_UPl0003C0F440 UniRef90_UPl0003C0F445 UniRef90_UPl0003C0F2440 UniRef90_UPl0003C9T2540 UniRef90_UPl00045725A0 UniRef90_UPl0004573D28 UniRef90_UPl00032B0500 UniRef90_H2ZUT0 UniRef90_UPl0004572E3B UniRef90_UPl0003E05D471 UniRef90_UPl0003E05D471 UniRef90_UPl0003BCD471 UniRef90_UPl0002BCD471 UniRef90_UPl0003BCD471 UniRef90_UPl0003BSBF0 UniR	QSS
UniRef90_G3P1M5 UniRef90_G3P1W6 UniRef90_W5KHC9 UniRef90_W5MMF6 UniRef90_UP1000457139A UniRef90_Q52JI4 UniRef90_G3WAI8 UniRef90_G3WAI8 UniRef90_G3WAI8	F N S C N V V D G H WL M Y E Q A N Y R G R H F Y V R P G Q Y K S F G E W S A G  VR S I R V E C G P W V G Y E Q M N F C G E M Y I L E K G E Y P R W D S W S N S C N S I R V Q S G C W V L Y E R P N Y M G Y Q Y V L T K G E Y P D Y H H W M G S V S S V R V Q S G T W V G Y Q Y P G Y R G F Q Y L F E K G E F K E C S E F G A A  V G S L R I L G G C W V G Y E K E G F R G H Q Y L L E E G E Y P D W S H W G G Y V G S L R I L G G C W V G Y E K E G F R G H Q Y L L E E G E Y P D W S H W G G Y

	470
QUERY	NAKVGSLRRVMDFY
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UniRef90_G3WBN1 UniRef90_G3WBN1	NDSIRSCRSI NDSIRSCRSI
UniRef90_W5KU96	
UniRef90_A7E2N2 UniRef90 G1M9M8	S
UniRef90_B5DDL7 UniRef90_F6TF27	HPTVGSTRRIQDF NDCIKSCRAI
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UniRef90_H3A118	S P R I I G S F R R I I R H F
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UniRef90_Q5XTN3	TSRMGSLRRITDL
UniRef90_M7ANJ5 UniRef90 M7ANJ5	S T S       K S <mark>C</mark> R M     S T S     K S <mark>C</mark> R M
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UniRef90_W5LDY3 UniRef90_UPI0003EAA25D	SPVVGSFRRIMNF
UniRef90_I3KDK1 UniRef90_H3B5N0	N D <mark>C</mark> I  R S <mark>C</mark> R M I   N D C I  R S C R M I
UniRef90_H3B5N0	N D C I R S C R MII
UniRef90_K7G0E5 UniRef90_G3PN80	S G K V G S L R R A T D M Y N D C V R S C R L I
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UniRef90_G5BT93 UniRef90 Q90WT1	NDSIRSCRMIPHY SPAVQSFRRIVE QPQIQSVRRVRDM
UniRef90_F6RDA1	N D S I R S C R M I P D Y
UniRef90_F6RDA1 UniRef90_G3PN87	NDSIRSCRMIPDY HPSVGSIRRVVD
UniRef90_W5LNE6 UniRef90_E6ZG41	N D S I R S C R M I P D Y N D S I R S C R M I P D Y H P S V G S I R R V V D N D C V R S C R M V A P Q I Q S V R R V R D M S A R V G S L R
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UniRef90_H2UW39	S A GUR S CR MU
UniRef90_UPI00034F65AF UniRef90_UPI0003C90746	D P K A A S L R R V V D L D A A V G S L K P L R D A A V G S L K P L R Q P L V Q S V R R V R D D M K I G S M R R I M D S A R V G S L W R A V D F Y
UniRef90_UPI0003C90746 UniRef90_F6Z4S4	D A A V G S L K P L R
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UniRef90_W5LND2	N M R F S S I R R I M D Y
UniRef90_Q9W6T4 UniRef90_H3AXG5	Q P Q I Q S I R C I R D Q P Q I Q S I R R I R D M
UniRef90_G3P1M5 UniRef90_G3P1W6	N S R L G S V R R L T D L
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UniRef90_W5MMF6 UniRef90_UPI000457139A	N E W M M S F R P V R N S F I G S C R M
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UniRef90_S4REU9 UniRef90_UPI0004401B84 UniRef90_UPI0004401B84	QIIFFEERDFKGRHFEYSQD <mark>C</mark> MNLASNLSR <mark>C</mark> NSIRVEGG ISLYSEEGLNGEQVKLTKALEDPQERPLQVASATVSAG ISLYSEEGLNGEQVKLTKALEDPQERPLQVASATVSAG	
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UniRef90_H0WMK5 UniRef90_UPI00027FA404	G K V I L F L E P G C Q G N S R E I WE D I A D A S G W A P I A S I R V V R G G K V I L F L E P G C Q G N S R E I WE D I A D A S G W A P I A S I R V V R G I L Y E Q P N F E G H S I E A E S D K P S M G S L P V R A L S S K I L K E	
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UniRef90_UPI00042AAC38 UniRef90_UPI00042AAC38	I SL F S E E GL K G K Q V M L T G D L K D S Q E R P L Q V A S A T V T A G	
UniRef90_H2UW41 UniRef90_H2LWN8 UniRef90_F7AV55	GK  I   F Y E D R N F Q G R S Y E T S S D C A D M S S Y L S R C H S C R V E S G G K   V F Y E G R N F Q G R H W E C S S D C M D T F R H F N Y C N S   R V S G G G K   T L Y E D G F Q G H H H E C S S D H P N L Q P Y L S C C N S V R V D S G	ì
UniRef90_H2UVY1 UniRef90_Q05714 UniRef90_H2V078		
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UniRef90_H2PJY0 UniRef90_H2PJY0 UniRef90_M7BG46	D D T E E M Q G F M Q K T C S M K V H W G  D D T E E M Q G F M Q K T C S M K V H W G  G K I I L F S E S G F A G Q K R E I W G D V A D A T P W L S H T V S I R V V R G	ì
UniRef90_M7BG46 UniRef90_B1MUD6	G K       L   F S E S G F A G Q K R E       W G D   V A D A T P W L   S H T   V   S       R   V   V R G K	i
UniRef90_UPI0002C66F63 UniRef90_UPI0002A4A10F UniRef90_UPI00038C6305	G Q               Y E G K H F T G Q K       E   V   F G D C D N F Q D F M N R V N S       H   V   E S G G K           F Y E N R N F G G R T H E C     S D C F D L L A M F D H C H S V R V E S G G K V M L   F S E P G C Q G R S R E     W G D T A D T S G W T P V A S V R V V R G	
UniRef90_UPI00038C6305 UniRef90_M3W3G3 UniRef90_UPI0003500D19	GKVMLFSEPGCQGRSRELWGDTADTSGW TPVASVRVVRG KIQLFSEPQFQGRSLGFEETTSQIDDSFS TKSCRVLGG KVTLYEPENFQGKXFELSAECPSLTDGLEKVGSIQVESG	i
UniRef90_I3JYV9 UniRef90_D3ZD79	KVVLFEFENFQGCKAEFSAECKDVTEGLQKVSSVTVESG QLDLFTEPDGLGLLNSYFDDTEEMQGFMQKTCSIKVHWG	j
UniRef90_A7E2K5 UniRef90_UPI0003D0C822 UniRef90_UPI0003D0C822	GKI I F Y E N R N F G G R T H E C I S D C F D L L A M F D H C H S V R V E S G G K V M L F S E P G C Q G R S R E I W G D T A D T S G W T P V A S V R V V R G G K V M L F S E P G C Q G R S R E L W G D T A D T S G W T P V A S V R V V R G K I Q L F S E P Q F Q G R S L G F E E T T S Q I D D S F S T K S C R V L G G K V T L Y E P E N F Q G K X F E L S A E C P S L T D G L E K V G S I Q V E S G K V V L F E F E N F Q G C K A E F S A E C K D V T E G L Q K V S S V I V E S G Q L D L F T E P D G L G L L N S Y F D D T E E M Q G F M Q K T C S I K V H W G K M Y V F D Q E N F Q G R M I E I S N E C M N V C E G M D R V R S L R V E C G M I M Y S E K N F K G S S I D V L G I V A N L K E Y G V K T Q S I N V L S G G K I I F Y E D R N F Q G R S Y E C S T D C A D M S T Y L S R C N S C R V E S G	i i
UniRef90_UPI00038366EF UniRef90_W5KKH8 UniRef90_F7A3L4	GKI I FYEDRNFQGRSYECSTDCADMSTYLSRCNSCRVESG VQLFSEADFQGQSLTFDETTDQIDDSFS MKSCRVLGG	
UniRef90_V8NT06 UniRef90_V8NT06	Maei oekbi adadeii berrbamobolo mko <mark>o</mark> k <u>ee</u> oo	
UniRef90_M7BJ08 UniRef90_UPI000441C21C UniRef90_UPI000441C21C	I FL H GLECFEGKEI ELNGEMRSLQGFNNHVLSVRVKGG I FL H GLECFEGKEI ELNGEMRSLQGFNNHVLSVRVKGG MI MYSEKNFKGSSI DVLGI VANLKEYGVKTQSI NVLSG	
UniRef90_UPI000328AE7E UniRef90_UPI000328AE7E UniRef90_G1NZ04	MI MY S E K N F K G S S I D V L G I V A N L K E Y G V K T Q S I N V L S G M I MY S E K N F K G S S I D V L G I V A N L K E Y G V K T Q S I N V L S G G K V V I Y S E P E V S E A C I E V F S D T E D C S S W L S P V V L V K V V R G G K V V I Y S E P E V S E A C I E V F S D T E D C S S W L S P V V L V K V V R G	ì
UniRef90_G1NZ04 UniRef90_UPI0003835255	L	j
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UniRef90_I3JN63 UniRef90_UPI0002034F64 UniRef90_UPI0002034F64	QIDLFTEPEGLGLLNSYFDDTEEMQGFMQKTCSIKVHWGKICLYECANFEGRKMECDEDIPSLWSYGDRVASIQVTGGGKLVIYCESDNQENVIEVFHDVLDCSSWLSPTILVKVIRGGKLVIYCESDNQENVIEVFHDVLDCSSWLSPTILVKVIRGGKLVIYCESDNQENVIEVFHDVLDCSSWLSPTILVKVIRG	i
UniRef90_F6Y404 UniRef90_F6Y404	SI KVHWG SI KVHWG	,
UniRef90_UPI0003ACC351 UniRef90_H3B627 UniRef90_UPI0003C17FB9	KVLLFSEPNFQGSSQIFVQSTQQFANSFS AKSCKVLAGKVLLFSEPNFQGSSQIFVQSTQQFANSFS AKSCKVLAG	i
UniRef90_UPI0003C17FB9 UniRef90_UPI0003C17FB9 UniRef90_G3WI39	KVLLFSEPNFQGSSQIFVQSTQQFANSFS AKSCKVLAG KVLLFSEPNFQGSSQIFVQSTQQFANSFS AKSCKVLAG GKVVIYSEPTFCGNCFEVFSDIPDCTSWLSPVIIVKVVRG	j
UniRef90_UPI0003EABEBC UniRef90_F7IEE0		
UniRef90_F7IEE0 UniRef90_G3P1W3 UniRef90_H2N1D0	I I F Y E D K N F S G R C I E C S N D S A D L T C L L N C C N S I R V E S G G K I V L Y E G K C F T G R K L E I C S Q C D N F Q D F M N R V N S A R V E S G	i i
UniRef90_UPI0002A486AA UniRef90_UPI0003347BAC UniRef90_UPI00034F45DC	GKI Y L Y E G K C F T G R K L E I C S Q C D N F Q D F M N R V N S A R V E S G G V T L F E Q R N F A G R R L D L N G D C P R I S E R N E R C N S V Q V E S G G K L T F Y E D R S F Q G R C Y D S S H D C P I L P T Y L S L C N S I L V D S G Y S G L N F Q G E S V D L T Q E V T D F K A F T P S S F K V L R G G K V I F Y E D R N F Q G R N Y E C M S D C S D I S S Y L G R V G S I R V E S G I T L F E T D E E D G K L L D V N E E I P D L E G Y G L V T R S I N V K S G I T L F E T D E E D G K L L D V N E E I P D L E G Y G L V T R S I N V K S G	i i
UniRef90_A4FVH2 UniRef90_UPI0002039059	GKVIFYEDRNFQGRNYECMSDCSDISSYLGRVGSIRVESG	i i
UniRef90_UPI0002039059 UniRef90_H2L3K8 UniRef90_D8KW04	RIDLYTEPEGLGEVTSFFDDTEETGVFGQKTCSIKVHWG	
UniRef90_Q9NTH7 UniRef90_S9WG07 UniRef90_G3PLG4	IT IT E S DILE S G K F II DILT N E VIS DILE E F G S E T R S II H V K S G	ì
UniRef90_Q5XTP2 UniRef90_UPI00042B9999	GRIVFYEERNFQGRSYECMSDCPDVSSYLSRCQSCRVERGGKVIFYEDRKFQGRSYECMSDCADMSSYLSRCHSCRIESGSIKVHWG	ì
UniRef90_UPI00042B9999 UniRef90_V8P0L7 UniRef90_UPI0003B5752C	S     K V <mark>H</mark> W G M	i
UniRef90_UPI00035021F6 UniRef90_UPI00035021F6	GKMVIVDIHGSK CKOELVRNVPDATAWEPNGVIIKVVRG	i
UniRef90_J3KQW1 UniRef90_W5L0S1	GKMVIYDLHGSK CKQEIYRNVPDATAWFPNGVLIKVVRG VVLFEAMDFEGHGVEVSKALPDVEQHGPSTQAIHVLSG KICLYEVGDYKGRKMEIDDDVPSLYSFTDRVGSILVSC	j

P WVA F E Q S S F R G E M F V L E K G E Y P R W D T W S S S UniRef90\_G5BGM7 UniRef90\_H2LYT2 UniRef90\_P10042 UniRef90\_S4REU9 UniRef90\_UPl0004401B84 UniRef90\_UPI0004401B84 UniRef90\_UPI00038904DE UniRef90\_UPI00038904DE UniRef90\_UPI00038904DE UniRef90\_H0WMK5 UniRef90\_UPI00027FA404 UniRef90\_UPI0002C54B9D UniRef90\_UPI0002C54B9D UniRef90\_Q4VBU2 UniRef90\_UPI00042AAC38 UniRef90\_UPI00042AAC38 UniRef90\_H2UW41 UniRef90\_H2LWN8 UniRef90\_F7AV55 UniRef90\_H2UVY1 UniRef90\_Q05714 UniRef90\_H2UVY1
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UniRef90\_UPI0003D0C822 S WVA Y D G E N F S G N Q F V L E E G H Y P S L S A M G C P P G T F R S GFN GIQ GKN GKN GKN GATD P H H K K V V R R SSSSSSSSSS | WV L | WV L V WV A V WV A C WI L C WI L V WV A V WV A G R Q W L L G R Q W L L G E Q Y I L G E Q Y I L G H S I P L G H S I P L G E Q Y V L G E Q Y V L N WL T Y S N WL T Y S G F E D W G G F E D W G L A G L W G L A G L W G S C E D W G S C E D W G UniRef90\_W75006 UniRef90\_UPI000441C21C UniRef90\_UPI000328AE7E UniRef90\_UPI000328AE7E UniRef90\_UPI000328AE7E UniRef90\_G1NZ04 UniRef90\_G1NZ04 CMEIT CMEIT KGFYS KGFYS EGELE EGEL KGVYR KGVYR HHNNKKGG KKGG RRTTEESS DDDEEEE CCDDCC UniRef90\_UPI0003835255 UniRef90\_UPI0003835255 UniRef90\_UP1000333235 UniRef90\_UP10003330479 UniRef90\_I3JN63 UniRef90\_UP10002034F64 T WL I Y E T WV G Y Q C WI L Y E C WI L Y E T WL V Y E T WL V Y E QGIPRGGPSEGGIPQGIP F L L Y M L I P L F V L F V L E Y P P F K E L E E L E E Y P E Y P LSF WNE PDI PDI LAF LAF A F G Y N F D F D F P G G G G G P P WDT WGA WGA WGA WGT E E A
H P
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UniRef90\_D8KW04 F C L F F A I V L F A I V L F A WI L Y E S P K E K E K P SLK NFK NFK NFK NFE G M H F P F Q L D L Y N C S G K R I E L M T E A G N L G K R I E L M T E A G N L G K R I E L M T E A G N L G N S V P L E E G E L E L C SSSSC C F MV Y E A F V C F D A WV G F E I WML Y E C WL L C Y C F I V Y E V WV A Y Q V WV A Y Q NFNGNQYCLRRGEYPDFKGQQFILEHGEYPNYRGRQYLWDRGEYNNYQGHQDFLRRGGRPDMSDNLCVLEEGHFPGFMGNQFFLRRGEYHYFCGEQYVLEKGKYKY SPEPGNKK HHRQRQQ | WL L Y E E P G F Q G V P L M L E Y I L E C F M V Y E R N N Y M G N Q Y F F R W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I W L I F E E P G F Q G I P L M L E I F E P G F Q G I F G G G C V L E C W I L Y E K P Y F Q G Q K C V L E C W I L Y E K P Y F Q G Q K C V L E T W V G Y Q Y P G Y R G S Q Y L L E UniRef90\_D8KW04 UniRef90\_Q9NTH7 UniRef90\_S9WG07 UniRef90\_G3PLG4 UniRef90\_Q5XTP2 UniRef90\_UPI00042B9999 UniRef90\_UPI00042B9999 UniRef90\_V8P0L7 UniRef90\_UPI0003B5752C UniRef90\_UPI00035021F6 UniRef90\_UPI00035021F6 UniRef90\_J3KQW1

UniRef90\_W5L0S1

L Q P M R R

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UniRef90_H2LYT2 UniRef90_P10042 UniRef90_S4REU9 UniRef90_UP10004401B84	Q G G A G A T Y K L A A F E F E N F R G K K V E L S G D C K D V L E K T Q R V C S N H K E S K I T V Y E K D N F I G R Q W E I S D D Y P S L Q A M W A N N E I R C N T A N N R L A L Y R E D N F G G Q M I E C V E D C S H L Y D R Y S M R D M R L G C P R P K A V V Y E A P G F Q G Q S W E V S R D I Y N L Q Q P E D L A S
UniRef90_UPI0004401B84 UniRef90_UPI00038904DE UniRef90_UPI00038904DE	M R L G C P R P K A V V Y E A P G F Q G Q S W E V S R D I Y N L Q Q P E D L A S V H S L H F V S R I Q L F S G P D Y L G D H I S F E D N Q V S L P E A F A
UniRef90_H0WMK5 UniRef90_H0WMK5 UniRef90_UPI00027FA404	V V R D Y S I P E I S L F S E E G L Q G E Q V K L V E A L K D L L S L E K P L K V V R D Y S I P E I S L F S E E G L Q G E Q V K L V E A L K D L L S L E K P L K L K M F P T D P K V V I Y E K P F F E G K C V E L T E M C S F V M E G G P F T S
UniRef90_UPI0002C54B9D UniRef90_UPI0002C54B9D UniRef90_Q4VBU2 UniRef90_UPI00042AAC38	WYODYIISFEI I LIYSEEGLKGEQVKLTDALEDSQDFERFLQ MRSSFM
UniRef90_UPI00042AAC38 UniRef90_H2UW41 UniRef90_H2LWN8	
UniRef90_F7AV55 UniRef90_H2UVY1 UniRef90_Q05714	TP HASSHRÜRI YDPEDYRGQMVEITKNCSCLHDRFHLSE VRMDPQDHKLCLFECPNFEGRKMEVCDDLPSLWSYGFQDR IRDMQ
UniRef90_H2V078 UniRef90_M4AIF0 UniRef90_UPI0003D07BB9	ITDS <mark>C</mark> Q IRMHGEHYRIELFEA <mark>C</mark> NFSGQ <mark>C</mark> MDICDD <mark>C</mark> PFLQSRGFK <u>SC</u> VVQDYRTPEINLFSKENGEGXKARFMDSSEDTRTQGKALT
UniRef90_H2PJY0 UniRef90_H2PJY0 UniRef90_M7BG46	V VQ D Y R T P E I NL F S K E N G E G X K A R F M D S S E D T R T Q G K A L T L K M F P T D P K V V V Y E K P F F E G K C V E L T E M C S F V M E G G E T E E L K M F P T D P K V V V Y E K P F F E G K C V E L T E M C S F V M E G G E T E E V V R D Y R I P E I S L F T E E N G E G T K V R F T D S S E D T R V C G K P L K V R D Y R I P E I S L F T E E N G E G T K V R F T D S S E D T R V C G K P L K V R D Y R I P E I S L F T E E N G E G T K V R F T D S S E D T R V C G K P L K
UniRef90_M7BG46 UniRef90_B1MUD6 UniRef90_UPI0002C66F63 UniRef90_UPI0002A4A10F	II K D M Q F H Q K
UniRef90_UPI00038C6305 UniRef90_UPI00038C6305 UniRef90_M3W3G3	I PAYLIGS F R M R L Y E H F D M R G E M V E L T E D C P N L M D R F R L F H A V W D Y R T P G I S L F S E E G L K G N Q V M L T G D L K D S Q G L E R P L Q A V W D Y R T P G I S L F S E E G L K G N Q V M L T G D L K D S Q G L E R P L Q I D V E F S E P T I L F E R E G F K G K K L E L N S E I V N L R S L G F N T Q L H V D G L D H K L H L F E N P A F G G C K M E I D D D V P S L W A H G F Q N R L K V D G A E H K L H L Y E N P S F T G R K M E I D D D V P S L W G H G F Q D R
UniRef90_UPI0003500D19 UniRef90_I3JYV9 UniRef90_D3ZD79	
UniRef90_A7E2K5 UniRef90_UPI0003D0C822 UniRef90_UPI0003D0C822	<mark>C</mark> GPRRRNQL <mark>C</mark> L FSEPQFQGQSQS <u>F</u> EET <u>A</u> GQLGDSF _ Q
UniRef90_UPI00038366EF UniRef90_W5KKH8 UniRef90_F7A3L4 UniRef90_V8NT06	VPQVTRK KMRI YERDNFGGQMYELLTDDCDSFMDRYRI SDRTI NNLSCQI I FYEERNFGGRSYETSGDCAELTS YLSR IDVEFSEPTI I LFEKEDFRGKKVELATETISLRALGLNPFPSKI I LYSEAGFGGQKREI WNDVPDATS WELLAS
UniRef90_V8NT06 UniRef90_M7BJ08 UniRef90_UPI000441C21C	PSKIILYSEAGFGGQKREIWNDVPDATS WELAS LSLSCGCQIVVFEQENFQGRCHELNAACSNLKEAG MEK
UniRef90_UPI000441C21C UniRef90_UPI000328AE7E UniRef90_UPI000328AE7E	
UniRef90_G1NZ04 UniRef90_G1NZ04 UniRef90_UPI0003835255	V V Q D Y R V   S H     D   L   F T E R E G   L   G   V V   H S Y F D D T E E M Q G F G   V   M Q K     H N   L   H F   V   S K     L   L   F S E P D F   L   G E H   D F E E D Q D S   L   P A A F   I
UniRef90_UPI0003835255 UniRef90_Q4S3L8 UniRef90_UPI0003330479 UniRef90_I3JN63	HNLHFVSKILLFSEPDFLGEHIDFEEDQDSLPAAFI MGMSYKMYVFDQENFQGRMVEINNE <mark>C</mark> MNV <mark>C</mark> ELG LDR LKMFPTDPK <u>VVI</u> YEKPSFEGK <mark>C</mark> MELESEMSSGYSGLPFTS VRDMQTHRR
UniRef90_UPI0002034F64 UniRef90_UPI0002034F64 UniRef90_F6Y404	V DYRVSQIDLYTEPEGLGIVTSFFDDTEETGVFGSTQK
UniRef90_F6Y404 UniRef90_UPI0003ACC351 UniRef90_H3B627	LKMFPTDPKVIIYEKPFFEGK <mark>C</mark> MELETELCNFEDNLHLKS HSIPFQITIYDQENFQGKRMEFTSSCPNVSERSF DN LTVEFSEPSIVLFAKENFKGKRIELMTEAGNLQLMGFNAH
UniRef90_UPI0003C17FB9 UniRef90_UPI0003C17FB9 UniRef90_UPI0003C17FB9	GGGII WILIYEHSNYRGRQII VLLIT DII PSWHRFSGWHR
UniRef90_G3WI39 UniRef90_UPI0003EABEBC UniRef90_F7IEE0	GGGI WILYEHSNYRGRQIVLLTDIPSWHRFSGWHR VIKDYRISQIDLFTEPEGLGVVSSYFDDTEEMQMYGAMQK CGGLGLSFQVVLFELENFQGRKAELTAECKDLGELGF EK VIWDYSTPEISLFSEEGLKGEQVKLREALNNSQGLEKPLQ
UniRef90_F7IEE0 UniRef90_G3P1W3 UniRef90_H2N1D0 UniRef90_UP10002A486AA	VIWDYSTPEISLFSEEGLKGEQVKLREALNNSQGLEKPLQVIWDYSTPEISLFSEEGLKGEQVKLREALNNSQGLEKPLQIHMQEPSFSMRLYERLEFGGQMMDLEDDCPSVMDRFHVNGIRMHQQHYRLELYEGEKFGGQCVELCDDCPFLQARGIKDS
UniRef90_UPI0003347BAC UniRef90_UPI00034F45DC UniRef90_A4FVH2	I PETGPQ KÜQLYEXEDHKGÜMMELSDDGSRLEDGFHLSE I DYVFAEPSIISLFALDSCEGRELHFEEAVNSVLSRDLHFY I PSYRGSFRMRI YERDNFGGQMYELMDDCESI QERYRMSD
UniRef90_UPI0002039059 UniRef90_UPI0002039059 UniRef90_H2L3K8	I H M Q E P S F S M R L Y E R L E F G G Q M M D L E D D C P S V M D R F H V N G I R M H G Q H Y R L E L Y E G E K F G G Q C V E L C D D C P F L Q A R G L K D S V K Q D N G L P R A Q L F E R G G F S G K K M E L Q D D V P N L M S R Y S L N R I P E T G P Q K L Q L Y E X E D H K G L M M E L S D D G S R L E D G F H L S E I D Y V F A E P S L S L F A L D S C E G R E L H F E E A V N S V L S R D L H F Y I P S Y R G S F R M R L Y E R D N F G G Q M Y E L M D D C E S L Q E R Y R M S D V N S H E P K H R L K A F S N T H F Q G T C M D L T T E V A E F A S F S Y N S H E P K H R L K A F S N T H F Q G T C M D L T T E V A E F A S F S A T D M N M M S R I V F Y E D R N F M G R S Y E C S S D C A D M S S Y L S R L K M G G R K P K V I V Y E K P F F E G K H V E I E S E V F M L D D K E S E D K M R L G P E P R A V V Y E A P G F G G R E L H L E E A V N S V L N K D L H F Y I P M H R G S F R M K I Y E R E N F G G Q M S E L M D D C D N V M D R Y R M S N
UniRef90_D8KW04 UniRef90_Q9NTH7 UniRef90_S9WG07	LKMGGRKPKVIVYEKPFFEGKHVEIESEVFMLDDKESEDKMRLGCPEPRAVVYEAPGFQGRSWEVSRDIYNLQQSPHLASVQLVFEEPSISLFALEHCEGRELHLEEAVNSVLNKDLHFYIPMHRGSFRMKIYERENFGGQMSELMDDCDNVMDRYRMSN
UniRef90_G3PLG4 UniRef90_Q5XTP2 UniRef90_UPl00042B9999 UniRef90_UPl00042B9999	I PMHRGSFRMKI YERENFGGQMSEL MDDCDNVMDRYRMSN I PMHRGSYRLKI YERENFGGQMYEL MDDCDNI MDRYRMSH LKMSTEEPKVI I YEKPFFEGKHMKLESET LTLTEEEKQKE LKMSTEEPKVI I YEKPFFEGKHMKLESET LTL I EEEKQKE
UniRef90_UPI00042B9999 UniRef90_V8P0L7 UniRef90_UPI0003B5752C UniRef90_UPI00035021F6	II M D S Y Y
UniRef90_UPI00035021F6 UniRef90_J3KQW1 UniRef90_W5L0S1	V L K N C S I P E I E L H P Q T D P A C C P V Y I Q K A I P D L E E L N I S K S V L K N C S I P E I E L H P Q T D P A C C P V Y I Q K A I P D L E E L N I S K S V H D L H F V S K L Q L F S R P D F L G D H F S F E D D Q A A L P A S F R L R D M Q W H P H

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UniRef90_H2LYT2 UniRef90_P10042 UniRef90_S4REU9	VGSVIVESGPWVAFELPGFAGDQFLLEKGEYPRWSTWTSCVGSMKIPCGAWVCYQYPGYRGYQYVLEAGDYKHWREWGAQARSVRVHDGTWVAYEEPHYRGRQYLLEKGDYRKCSEWGAM
UniRef90_UPI0004401B84 UniRef90_UPI0004401B84 UniRef90_UPI00038904DE UniRef90_UPI00038904DE	A R S V R V H D G T W V A Y E E P H Y R G R Q Y L L E K G D Y R K C S E W G A M V G S L Q V L G G C W V G Y E K E G F R G H Q Y L L E E G E Y A D W S H W G G Y P Q S C R V H G G S W I L Y D G R E F E G E Q H V L S D G E Y P S L T A M G G S P Q S C R V H G G S W I L Y D G R E F E G E Q H V L S D G E Y P S L T A M G G S V A S A T V S A G L W L L Y P K P F F E G T P Y I L E P G E Y P T S E A W C A S V G S M K V L R G I W L L Y P K P F F E G T P Y L L E E G E Y R D W K D W G G Y V A S A T V S A G L W L L Y P K P F F E D T P C I L E P G E Y P T S E A W G T S V A S A T V S A G L W L L Y P K P F F E D T P C I L E P G E Y P T S E A W G T S V A S A T V S A G L W L L Y P K P F F E D T P C I L E P G E Y P T S E A W G T S
UniRef90_H0WMK5 UniRef90_H0WMK5 UniRef90_UPI00027FA404	VASATVSAGLWLLYPKPFFEGTPYILEPGEYPTSEAWCAS VASATVSAGLWLLYPKPFFEGTPYILEPGEYPTSEAWCAS VGSMKVLRGIWVAYFKPGFTGHQYILEFGFYRDWKDWGGY
UniRef90_UPI0002C54B9D UniRef90_UPI0002C54B9D UniRef90_Q4VBU2	
UniRef90_UPI00042AAC38 UniRef90_UPI00042AAC38 UniRef90_H2UW41	V G Ś L R I L G G C W V G Y E K E G F R G H Q Y L L E E G E Y A D W Ś Q W G G Y C M S C Q V M D G H W L L Y E Q P H F R G R M M Y L R P G E Y K N F R D L G L N
UniRef90_H2LWN8 UniRef90_F7AV55 UniRef90_H2UVY1 UniRef90_Q05714	TYSCNVMEGFWIFYEHPNYRGRQYFMRPGEYRSCGDWGCH I HSFNVLEGSWVLYELLNYRGRQYLLRPGDYRQYLDWGTT VASIQVTGGTWVGYQYPGYRGYQYVLEMGPYKHWNDWGAH
UniRef90_H2V078 UniRef90_M4AIF0 UniRef90_UPI0003D07BB9	INSVRVYDGAWVMYEEPNFRGRMYIVERGNYCSPTEWQAQAASIIVHSGLWLIYSKPFFDDDPYVLEPGGYPSLKAWGARVGSMKVLRGIWVAYEKPGFTGHQYLLEEGEYRDWKAWGGY
UniRef90_H2PJY0 UniRef90_H2PJY0 UniRef90_M7BG46 UniRef90_M7BG46	VGSMKVLRGI         WVAYEKPGFTGHQYLLEEGEYRDWKAWGGY           VGSMKVLRGI         WVAYEKPGFTGHQYLLEEGEYRDWKAWGGY           ASSIIVHSGLWLIYSRPFFDDDPYVLEPGGYPNLKAWGAK           ASSIIVHSGLWLIYSRPFFDDDPYVLEPGGYPNLKAWGAK
UniRef90_B1MUD6 UniRef90_UPI0002C66F63 UniRef90_UPI0002A4A10F	VNALKVYDGAWVLYEEPNYRGRMYLVERGDFRSFSDWEAP
UniRef90_UPI00038C6305 UniRef90_UPI00038C6305 UniRef90_M3W3G3	V A S A T V S A G L W L L Y P K P F F E D T P Y I L E P G E Y P T L E A W G T S V A S A T V S A G L W L L Y P K P F F E D T P Y I L E P G E Y P T L E A W G T S I R S V Q V I G G L W V T Y E Y G N Y R G R Q F L L S P A E V P N W Y E F S G
UniRef90_UPI0003500D19 UniRef90_I3JYV9 UniRef90_D3ZD79 UniRef90_A7E2K5	VASARAIINGT WVSYEFPGYCGSQFPFELLGEYRHWNEWATGVASIKALNGT WVGYMYPGYRGRQFVFERGDFKHWNDWEAPVGSMKVLRGVWVAYEKCGFTGHQYLLEEGEYRDWNAWGGY
UniRef90_UPI0003D0C822 UniRef90_UPI0003D0C822 UniRef90_UPI00038366EF	VGSTMVSCGTWVGYQYPGYRGSQYLLEKGDYRHFNEYGARTKSCRVLGGSWVAYDGENFSGNQYVLEEGHYPCLSAMGGFTKSCRVLGGSWVAYDGENFSGNQYVLEEGHYPCLSAMGGFCQSCHVMDGHWLMYEQPHYRGRMLYFRPGEYRSFRDMGYS
UniRef90_W5KKH8 UniRef90_F7A3L4 UniRef90_V8NT06	CNSCRVESGCFMVYDRSNFMGNQYFLRRGEYSDYQRMG M VRSVQVLGGUWVTYFFGTYRGRQULUSPADUPNWYFFSG
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UniRef90_UPI000328AE7E UniRef90_UPI000328AE7E UniRef90_UPI000328AE7E UniRef90_G1NZ04	TKSCKVLGGSWVAYDGENFTGNQYVLEEGHYPCLSAMGCLTKSCKVLGGSWVAYDGENFTGNQYVLEEGHYPCLSAMGCLTCSMKVHWGTWLIYEEPGFLGVPFILEPGEYPDLSFWNTETCSMKVHWGTWLIYEEPGFLGVPFILEPGEYPDLSFWNTE
UniRef90_G1NZ04 UniRef90_UPI0003835255 UniRef90_UPI0003835255	PRSCRVRGGSWILFDGKAFAGEQHVLISEGEYPTILISAMGCLI PRSCRVRGGSWILFDGKAFAGEQHVLISEGEYPTILISAMGCLI
UniRef90_Q4S3L8 UniRef90_UPI0003330479 UniRef90_I3JN63 UniRef90_UPI0002034F64	VR S LR VE C G P Y V G F E Q M N L C G E M Y I L E K G E Y P R W D S W S N C V G S V K V L R G I W V A Y E K S G F M G H Q Y L L E E G E Y Q D W K D W G G Y T C S I K V H W G I W L I Y E E P G F Q G V P L M L E P G E Y P N L A F W E K K
UniRef90_UPI0002034F64 UniRef90_F6Y404 UniRef90_F6Y404	T CSI KVH WGI WL I Y E E P G F Q G V P L M L E P G E Y P N L A F W E K K V G S I K V L G G I WV A F E K P G F T G H Q Y L L E E G E Y K E W Q D W G G Y V G S I K V L G G I WV A F E K P G F T G H Q Y L L E F G F Y K F W Q D W G G Y
UniRef90_UPI0003ACC351 UniRef90_H3B627 UniRef90_UPI0003C17FB9	TFSVHVGGGLWILYEHISF <mark>C</mark> GQQFILERGEYPRWDAWSGS TFSVHVGGGLWILYEHSNYRGRQ <u>LVL</u> RLTDLPSWHRFSGW
UniRef90_UPI0003C17FB9 UniRef90_UPI0003C17FB9 UniRef90_G3WI39 UniRef90_UPI0003EABEBC	TCSMKVHWGTWL IYEEPGFQGIPFVLEPGEYPDLSFWDTE
UniRef90_F7IEE0 UniRef90_F7IEE0 UniRef90_G3P1W3	V A S A T V S A G L W L L Y P K P F K T L P P Y I L E P G E Y P T S E A W G T S V A S A T V S A G L W L L Y P K P F K T L P P Y I L E P G E Y P T S E A W G T S L F S C N V T D G N W L F Y F Q P D Y R G R M Y L L R P G D Y T R F S F W G G R
UniRef90_H2N1D0 UniRef90_UPI0002A486AA UniRef90_UPI0003347BAC	
UniRef90_UPI00034F45DC UniRef90_A4FVH2 UniRef90_UPI0002039059	TQ\$VWVRS  CQ\$CHVMDGHWLMFEQPHYRGRMLYFRPGEYRSFRDMGFS PC\$FKVLRGCWLLHYQG\$SDNDQCVLEEDLYTDLA\$CGCP PC\$FKVLRGCWLLHYQG\$SDNDQCVLEEDLYTDLA\$CGCP
UniRef90_UPI0002039059 UniRef90_H2L3K8 UniRef90_D8KW04 UniRef90_Q9NTH7	CHSCRVERGCFMVYDRTNYMGNQYFMRRGEYADYMSMFGM VGSMKVLGGVWVAYEKPGFEGHQYLLEEGAYRDWADWGGY VGSLRVLGGCWVGAYEKPGFEGHQYLLEEGAYRDWADWGGY VGSLRVLGGCWVGYEKEGFRGHQYLLEEGEYPDWSHWGGY TQSVWVKSGLWIAYEGPNFLGRQLLLKPNELPNWTAFSGW
UniRef90_S9WG07 UniRef90_G3PLG4 UniRef90_Q5XTP2	C M S C H V   S D G H W   M Y E Q P Q Y R G R M M Y   V   R P G E Y R N F M N M G S S C Q S C H V   M D G H W   M Y E Q P Q Y R G R M M Y   L   R P G E Y R S F R E M G G T
UniRef90_UPI00042B9999 UniRef90_UPI00042B9999 UniRef90_V8P0L7	VGSIKVLEGIWVAYEKPGFAGHQYLLEEGTYQEWKDWGGY VGSIKVLEGIWVAYEKPGFAGHQYLLEEGTYQEWKDWGGY SSKVLSGSWLAYDEENFSGNQYVLEEGAYPDLSAMG <mark>C</mark> L
UniRef90_UPI0003B5752C UniRef90_UPI00035021F6 UniRef90_UPI00035021F6 UniRef90_J3KQW1	V SFTVKSGVWLAYPDINFKGQATVLE EDHGLFEISAA V SFTVKSGVWLAYPDINFKGQATVLE EDHGLFEISAA PQSCRVHGGSWILFDETN
UniRef90_W5L0S1	

	470
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UniRef90_S4REU9	SPTMQSVRCIRQF
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UniRef90_UPI00038904DE UniRef90_H0WMK5	STAIRSLQKVPLFF VGSLKPMR
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UniRef90_UPI00042AAC38 UniRef90 H2UW41	G M R II IO S M R R II IM D
UniRef90_H2LWN8	N P M V G S <u>F</u> R R M R
UniRef90_F7AV55 UniRef90_H2UVY1	D A R V G S L R R Q P Q L Q S L R R V R D M
UniRef90_Q05714 UniRef90_H2V078	<u> </u>
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UniRef90_H2PJY0	NGFILIOSILIRPILLIDE
UniRef90_M7BG46 UniRef90 M7BG46	D P S V C S M H P I D P S V C S M H P I
UniRef90_B1MUD6	
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UniRef90_F7IEE0	D P R V G S L K P M T
UniRef90_G3P1W3 UniRef90 H2N1D0	SARIVIGSILIR RILLI
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UniRef90_UPI0002039059	A A A V K S L K P I S D C I R S C R M I
UniRef90_H2L3K8 UniRef90 D8KW04	D F F IV IQ S II IR P II V ID F
UniRef90_Q9NTH7	D E <u>L                                  </u>
UniRef90_S9WG07 UniRef90_G3PLG4	K TIGSLRPM GMRFMSMKRISD
UniRef90_Q5XTP2	R F M S M R R II I I D
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UniRef90_UPI00035021F6	EMK SLHPL
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UniRef90_W5L0S1	

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UniRef90_V9K7D4 UniRef90_W5N2Y8 UniRef90_S4RVF4 UniRef90_UPl0004418F96 UniRef90_UPl0004418F96 UniRef90_W5LEL2 UniRef90_UPl00022CF024 UniRef90_R0K1Q0 UniRef90_B5M4A7 UniRef90_UPl00042C1A3A UniRef90_UPl0003C2672C UniRef90_UPl0003C2672C UniRef90_UPl0003EAD3B5 UniRef90_F1NNF6 UniRef90_F1NNF6 UniRef90_G1KEG6	A Q V F Y E K K N F Q G R K Y E S T A D C T D L E D M V G P V S S L R V E MI MY T E K D F G T K S I N V L G I I P N F K D Y G L R T Q S I N V I M I MY T E K D F G T K S I N V L G I I P N F K D Y G L R T Q S I N V I G K I F Y E D R G F Q G H G Y E C S R D C P N L Q P Y L S C C N S I H V I V K S S K V I V Q L F S E P E F K G N C K I F T R Y I D S L A V K S S K V I M I M Y S E E N F K G A N I S V L G I I S N L K D Y G L R T K S I N V L M I M Y S E E N F K G A N I S V L G I I S N L K D Y G L R T K S I N V L S L F A E E N G E G A R L Q F S D S A E D V Q G Q S L T A S S I I V K T S S I R V K T S S I R V E	DSG LSG ESGG LSGG HSGG HSGH
UniRef90_F7A3M2 UniRef90_W5K2Q4 UniRef90_W5K2Q4 UniRef90_UPI00033378B9 UniRef90_UPI00033378B9 UniRef90_UPI000333471C7 UniRef90_UPI00033471C7 UniRef90_UPI0003471C7 UniRef90_UPI00042AD20B UniRef90_UPI00042AD20B UniRef90_UPI0004624A6B UniRef90_UPI000273AEDA UniRef90_UPI000273AEDA UniRef90_UPI0004419E18 UniRef90_UPI0003EADD12 UniRef90_UPI0003EADD12 UniRef90_UPI0003EADD12 UniRef90_UPI0003EADD12	QIHLFSEPQFQGHSQSFEETTSQIDDSFSTKSCRVSIELYPQSDPAYCSVYIQRAVPDLEDLNVSKSSFTVFIELYPQSDPAYCSVYIQRAVPDLEDLNVSKSSFTVFISLFAEPNGEGRKLMFCEESEDIRGYQPKTASIIVFISLFAEPNGEGRKLMFCEESEDIRGYQPKTASIIVFISLFAEPNGEGRKLMFCEESEDIRGYQPKTASIIVFISLFAEPNGALIKVVQCNVPDATTWFPNGALIKVVQCKMIIY DLHGSKYEVYCNVPDATTWFPNGALIKVVQVCNVPDATTWFPNGALIKVVQCKMIIY DLHGSKYEVYCNVPDATTWFPNGALIKVVQCKMIIY DLHGSKYEVYCNVPDATTWFPNGALIKVVQCKMIIY DLHGSKYEVYCNVPDATTWFPNGALIKVVQCKMIIY DLHGSKYEVYCNVPDATTWFPNGALIKVVQQLVFYEGKCFTGRKLEVVSGPCDNFQEFTNRVNAILYVQQLVFYEGKCFTGRKLEVSGRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFLQRAVANLEENLPRSVSFAVFL	K A G K A G
UniRef90_H3BBT0 UniRef90_H3BBT0 UniRef90_U3JC85 UniRef90_U7HM00 UniRef90_UPI0003F18EC1 UniRef90_UPI0003F18EC1 UniRef90_UPI0002B4CA5B UniRef90_UPI0002B4CA5B UniRef90_D2GWG7 UniRef90_D2GWG7 UniRef90_L8XZC6 UniRef90_L8XZC6 UniRef90_Q8HY68 UniRef90_Q8HY68 UniRef90_G1KIM3 UniRef90_G1KIM3 UniRef90_UPI0003870B2E	GKIILYNLECFEGKEIELTTEMQSINGFNNHTLSVHVIGKIILYSDAGFAGQKREIWDDVPDATSWLSHTISIRVIVVLFEDMDFQGHRVEVSSALPDLAQHGPSTQAIHVL	D S G I R G L R G L R G E S G K A G
UniRef90_UPI0003F067EC UniRef90_UPI0003F067EC UniRef90_UPI000398FB8D UniRef90_UPI000454622D UniRef90_UPI000454622D UniRef90_UPI0004448BAC UniRef90_UPI00034448BAC UniRef90_UPI0003500F55 UniRef90_UPI00038C62AD UniRef90_UPI00034448BAC UniRef90_UPI0003E062AD UniRef90_UPI0003E06AD UniRef90_UPI0003E06AD UniRef90_UPI00044406F6 UniRef90_UPI00044406F6 UniRef90_UPI0003314CE8	KIIVYEKTHFGGWSKEFSENISSVPEEFLEIGSIRVI SYTVE SYTVE SYTVE SYTVE KMVVWDEDGFQGRRHEFTAECPSLELGFETVRSLKVL GKIVIHEHAQFGGEAFEVYGDVEDTSMKLSPVISIKVL GKIVIHEHAQFGGEAFEVYGDVEDTSMKLSPVISIKVL KVQLFSEPDFKGSTHIFEGDVNSIEDLF TTKSCKVE GKITFYEDRSFQGRCYECSSDCPNLQTYFS GKMITY DIHGEKSKREIYHDLPDATSWIFPIGTLRVX KVLLFEFENFQGCKAEFSSDCKDVTEGLEKVGSIIIE ISLFSLECFEGKEISLTSEVLSLEGFNNHVLSVRVE ISLFSLECFEGKEISLTSEVLSLEGFNNHVLSVRVE I SLFSLECFEGKEISLTSEVLSLEGFNNHVLSVRVE	I G G G K S G G L R G G F S G
UniRef90_UPI0003314CE8 UniRef90_W5MMH5 UniRef90_UPI000273CFFC UniRef90_UPI0003B5DA5F UniRef90_UPI0003EBE950 UniRef90_W5L233 UniRef90_W5L233 UniRef90_UPI000350B881 UniRef90_UPI000393D13D	KVTVWEQEYFQGKCQEFTAECCNIQDGFDNLRSIRVEGKITFYEDRGLRGRSYECTTDCPNLQPYFSRCNSIRVEKIQLYSEPEFQGRLLALLDSTDALDADFTPKSCKVCKVQLYSEPEFQGRLVCLEDSAAALDEGFTPRSCKVLTTLFESDLESGKFIDITNEISDLEEFGRETRSIHVEKVQLYSEEHFQGRLVCLEDSAAALDEGFTPRSCKVLTTLFESDLESGKFIDITNEISDLEEFGRETRSIHVEKVQLYSEEHFQGRLVCLEDSAAALDEGFTPRSCKVLTTLFESDLESGKFIDITNEISDLEEFGRETRSIHVEKVQLYSEEHFGAKTQSVDVSVLTTLFESDLESGKFIDITNEISDLEEFGRETRSIHVEKVGKVLTTLFESDIENSKYVINRDVPVVNLEEHFGAKTQSVDVSVLTTLFESDIENSKYVINRDVPDLEEFGNETRSIHVEKVGKVLTTLFESDIENSKYVINRDVPDLEEFGNETRSIHVEKVGKVLTTLFESDIEGSMTSYMDDAEELQVYLQRTCSIKVVLTTLFSDPNFRGGHMDLVGPVISMEERSTKTQSVTVTLFSDPNFRGGHMDLVGPVISMEERSTKTQSVTVT	SKAAS RGGGGG

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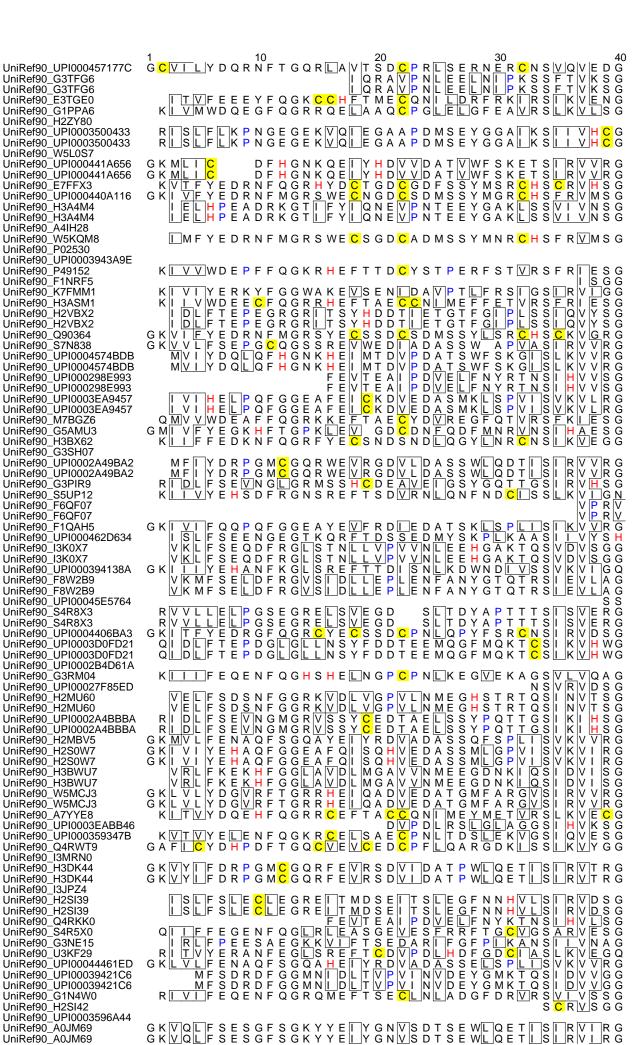
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UniRef90_L8XZC6 UniRef90_Q8HY68 UniRef90_G1KIM3 UniRef90_G1KIM3 UniRef90_UPI0003870B2E UniRef90_UPI000398FB8D UniRef90_UPI000454622D UniRef90_UPI000454622D UniRef90_UPI000454622D UniRef90_UPI000454622D UniRef90_UPI0004448BAC UniRef90_UPI0003500F55 UniRef90_UPI00038C62AD UniRef90_UPI00038C62AD UniRef90_M7BJ04 UniRef90_H3D1M1 UniRef90_H3D1M1 UniRef90_W5MCD2	T N Q L Q S L R R V N S T L L S F R N S T L L S F R P L S F R P L S F R P L S K L I M S L R P L N G P L M S F R R A P Q V Q S L R P L R L R L R L R L R L R L R L R L
UniRef90_W5MCD2 UniRef90_UPl00044406F6 UniRef90_UPl0003314CE8 UniRef90_UPl0003314CE8 UniRef90_UPl0003314CE8 UniRef90_UPl000273CFFC UniRef90_UPl0003B5DA5F UniRef90_UPl0003EBE950 UniRef90_UPl0003EBE950 UniRef90_W5L233 UniRef90_K7GPE1 UniRef90_UPl000393D13D	D R V G S M Y P V R H F F S G P I L S F R S P Q I Q S I R R V I D L Y G S L R P L L L S A R V R A L K P I L D F S A R V R A L K P I L D F S A D V K S L R P L D F S A D V K S L R P L D W S F R S I Q D W S F R S I Q D W S F R S I L R P I L D F S A R V K S L R P I L D F S A R V K S L R P I L D F S A D V K S L R P I L D F S A R V K S L R P I L D F S A R V K S L R P I L D F S M R F Q S L R P I L D F S M R F Q S L R P I L D F S M R F Q S L R P I L D F S M R F Q S L R P I L D F S M R F R S V Q D G L L Q S L R P I L D F D S I I R S V Q D S L I R S V Q D S I I R S V Q



UniRef90_UPI000457177C UniRef90_G3TFG6 UniRef90_G3TFG6	50 60 70 80  V WV G Y E G E N Y S G R Q Y L WE A G D Y G S Y D K WWA S T D Q L S S V R A  V WL A Y P D I N F K G Q A T V L E E D H G L F E I S A T E M K S L H P  V WL A Y P D I N F K G Q A T V L E E D H G L F E I S A T E M K S L H P
UniRef90_E3TGE0 UniRef90_G1PPA6 UniRef90_H2ZY80	P WV G Y E Y P E Y Q G Q Q F V L E K G D Y P C Y Q A WS G N S E H L L S F R P A WV G F E H P G F Q G Q Q Y V L E R G E Y P C W G A R S G P S E R L A S F R P
UniRef90_UPI0003500433 UniRef90_UPI0003500433 UniRef90_W5L0S7 UniRef90_UPI000441A656	M W L V F S K P L F Q G D P Y I L E P G G Y P N R T S W G A E D P Q V C S L E P M W L V F S K P L F Q G D P Y I L E P G G Y P N R T S W G A E D P Q V C S L E P C W I L Y E K P T F Q G Q K Y V L E E G E R M L T D I L N L H T E K I G S V R Q
UniRef90_UPI000441A656 UniRef90_E7FFX3 UniRef90_UPI000440A116 UniRef90_H3A4M4 UniRef90_H3A4M4 UniRef90_A4IH28	C WI L Y E K P T F Q G Q K Y V L E E G E R ML T D I L N L H T E K I G S V R Q C W L Y E K P T F Q G Q K Y V L E E G E R M L T D I L N L H T E K I G S V R Q C W M M Y D Q P N Y M G N Q Y F F R R G D Y D D C M S M F S M S N C I R S C R M C W M F Y D K S N Y M G H H Y F F R R G E Y S D Y M S M W G C N N C V R S C R M I W L A Y K R P D F E G K F V V L E Q G C P P L P K S G A E E L D P V K S L R P I W L A Y K R P D F E G K F V V L E Q G C P P L P K S G A E E L D P V K S L R P
UniRef90_W5KQM8 UniRef90_P02530 UniRef90_UP10003943A9E	CWMFYDQPNYMGHQYCFRRGEYSDYMSMWGSSSWVRSCRM WMLYEHPNYTGHQYFLRRGEYPDFQQWMGLNDSIRSCRV CVQHVHA
UniRef90_P49152 UniRef90_F1NRF5 UniRef90_K7FMM1 UniRef90_H2VBX2 UniRef90_H2VBX2 UniRef90_G90364 UniRef90_S7N838 UniRef90_UP10004574BDB UniRef90_UP10004574BDB UniRef90_UP1000298E993 UniRef90_UP1000298E993 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457 UniRef90_UP10003EA9457	A WV G F E H C G F Q G Q Q F V L E R G E Y P C WE A WS G S N D R M S S F R P S W L L Y Y Q G E T D D D H C V L E E G L Y I D L P S C G C P T A A I K S L K P V W V A Y E K E Q Y K G R Q Y L L E E G D Y E D V H S Y G G I N G V L L S F R F A WV G Y E H A A Y M G Q Q F V L E R G E Y P R W D A WS G S N E R M T S F R P V W L V F S D P G F Q G M L A V L E K G E Y P F P E S W G F S S P F V G S L R P V W L V F S D P G F Q G M L A V L E K G E Y P F P E S W G F S S P F V G S L R P C W M V Y D R P N F M G N Q F F I R R G E Y P D Y M S W G W G N N C I R S C R M C W V L Y E E P E F R G R K L V L P E G D V E L R A A G A G S I H S I G S L R R C W I L Y E K P K F Q G Q A Y I L E E G E K E L Q Q L W L N H D F V I G S I K R C W I L Y E K P K F Q G Q A Y I L E E G E K E L Q Q L W L N H D F V I G S I K R A W I A Y S H V D F S G N Q Y I L E K G F Y N N C A D W G S Q D N R I C S V Q P C W I L Y E K P N F E G R T I A L E E G P T E L E N V W S V C E D K I G S I R L A W A G F E H V G F Q G Q F V L E R G E Y P R W E A W G G R H E R M S S F R P P W V C F D H P D F R S Q Q F I L E H G D Y P D F F C W N G H N D H M G S R R P F W V L Y E R P N Y M G Y Q Y V L S P G F Y P D Y Q C W I S S N D T I R S C R I
UniRef90_H3BX62 UniRef90_G3SH07 UniRef90_UPI0002A49BA2	
UniRef90_UPI0002A49BA2 UniRef90_G3PIR9 UniRef90_S5UP12 UniRef90_F6QF07 UniRef90_F6QF07 UniRef90_F1QAH5 UniRef90_I3K0X7 UniRef90_I3K0X7 UniRef90_I3K0X7 UniRef90_UPI000394138A UniRef90_F8W2B9 UniRef90_F8W2B9 UniRef90_UPI00045E5764 UniRef90_UPI0004406BA3 UniRef90_UPI0003D0FD21 UniRef90_UPI0003D0FD21 UniRef90_UPI0003D0FD21 UniRef90_UPI0003B4D61A	VWL VYS D P G F G G F V G V L E V G E Y P C P Q N W G F P E P F I G S I R P P W V A Y T D V N F S G E P T A Y E E G E Y P S L R Y Y N D S L S S L Q L L W I L Y E K P H F Q G H K C V L E E G E K V L N R D W I F R S K K I G S I K R L W I L Y E K P H F Q G H K C V L E E G E K V L N R D W I F R S K K I G S I K R C W L Y E K P G F Q G R S I A L E E G P A D L A N E W A D Q N D S I G S I R L R W L Y S K P Y F D D D P Y V L E P G G Y P S L Q A W G A K D S S V C S I H P V W V A F E K P G F S G E L Y V L E K G M Y A N P E D W G A Q N F R I A S I Q P P W V A Y E H V D Y K G R F L V F E E G E Y N S V D K K M N D R I S S L Q V V W L A F E A P G F S G Q Q Y V L E K G L Y G A P E D W G A S D S R I C S V I P V W L A F E A P G F S G Q Q Y V L E K G L Y G A P E D W G A S D S R I C S V I P V W L A F E Q S N F R G E M F V L E K G Y Y A T P A D W G G Q G P T L S S I R P V W V A F E L E D F M G Q M F V L E K G Y Y A T P A D W G G Q G P T L S S I R P V W V A F E L E D F M G Q M F V L E K G Y Y A T P A D W G G Q G P T L S S I R P V W V A F E L E D F M G Q M F V L E K G Y Y A T P A D W G G Q G P T L S S I R P V W V A F E L E D F M G Q M F V L E K G Y Y A T P A D W G G Q G P T L S S I R P V W V A F E L E D F M G Q M F V L E K G Y Y D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A Y I G S M R P T W L I Y E E P G F Q G I P Y I L E Q G E Y P D L S F W D T E E A
UniRef90_G3RM04 UniRef90_UPI00027F85ED UniRef90_H2MU60 UniRef90_H2MU60 UniRef90_UPI0002A4BBBA UniRef90_UPI0002A4BBBA UniRef90_H2MBV5 UniRef90_H2SW7 UniRef90_H2SW7 UniRef90_H2SW7 UniRef90_H3BWU7 UniRef90_H3BWU7 UniRef90_W5MCJ3 UniRef90_W5MCJ3 UniRef90_W5MCJ3 UniRef90_W5MCJ3 UniRef90_UPI0003EABB46 UniRef90_UPI000359347B UniRef90_UPI000359347B UniRef90_UARWT9 UniRef90_I3MRN0 UniRef90_H3DK44 UniRef90_H3DK44 UniRef90_H3DK44	P WV G Y E Q A N C K G E Q F V F E K G E Y P R WD S WT S S T D S L S S L R P C R ML Y E Q P N Y S G L Q Y F L R R R R D Y A N H Q Q WM G L S G S I C S C R L V WV A F E Q P G F S G E L Y V V L E K G L Y A C P E D WG A E N G R I S S I L P V WL A F E Q P G F S G E L Y V L E K G L Y A C P E D WG A E N G R I S S I L P V WL V Y I D P G F Q G F M Q V L E V G E Y P V P Q S W G F P E P F I G S L R P V W L V Y I D P G F Q G F M Q V L E V G E Y P V P Q S W G F P E P F I G S L R P V W L V Y I D P G F Q G R I I A L E E G A T D L E N E W A E C G P E I G S L R P V W L Y E R P D F Q G R I I A L E E G A T D L E N M W G S K D Q I G S V R L C W L L Y E K P G F Q G R I I A L E E G P T E H I V N M W G S K D Q I G S V R L V Y E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W V A F E K P G F S G E G Y I L E K G L Y A S P E D W G A L S Y K I S S I Q P V W A Y N Q R C F C G E Q Y V L E E G E L N H F S G F R G M E N S I G S I K R A W V G F E H S T F N G Q Q F I L E K G D Y P C W E A W S G N N E R L I S F R P V W A Y N Q R C F C G E Q Y V L E K G D Y P C W E A W S S S N D I L L S L R P A W V L Y E E P N Y R G R M Y V V E R G N Y C S H V E W Q A E N P N I L G S I R R G W V L Y E K P N F K G E K F A L D E G D I E I T C P F G R P H Q H I G S I R R G W V L Y E K P N F K G E K F A L D E G D I E I T C P F G R P H Q H I G S I R R G W V L Y E K P N F K G E K F A L D E G D I E I T C P F G R P H Q H I G S I R R G W V L Y E K P N F K G E K F A L D E G D I E I T C P F G R P H Q H I G S I R R G W V L Y E K P N F K G E K F A L D E G D I E I T C P F G R P H Q H I G S I R R
UniRef90_H2SI39 UniRef90_H2SI39 UniRef90_Q4RKK0 UniRef90_G4R5X0 UniRef90_G3NE15 UniRef90_U3KF29 UniRef90_UPl00039421C6 UniRef90_UPl00039421C6 UniRef90_UPl00039421C6 UniRef90_H2SI42 UniRef90_H2SI42 UniRef90_H2SI42 UniRef90_A0JM69 UniRef90_A0JM69	C WV I C E H S N Y R G R Q F F L E P L E I T N W L K F S S L Q T V G S L F P V W V I C E H S N Y R G R Q F F L E P L E I T N W L K F S S L Q T V G S L F P V A W V A Y S H V D F S G N Q Y I L E K G F Y N N C A D W G S Q D N R I C S L Q P A W L C F E H A H L Q G Q L V L E H G E Y A H L R S W G D R C E G I G S C R P L W L V Y A H P F F Q G L P R V L E V G G Y S N P A A W G V E Q P Y V G S L H P P W L A Y T D P K Y E G E P H A F E E G E T N D L E N L W G P P T A I G S L R L V W V V F E E P G F C G E P Y V L E K G L Y G S P E D W G A L Q H R V G S T M P V W V V F E E P G F C G E P Y V L E K G L Y G S P E D W G A L Q H R V G S T M P P W V A Y E Q A N M R G E M F I L E K G E Y P R W D T W S S S S D C F M S M R P S W V I Y E E K N Y S G S L Y V L S E G D Y P N L S S M G C P S G T I C S V K T Y F L R R G D Y P D Y Q W M G F S D S I R S C R L G W L Y E E P R F H G R R V M L L E G D A E L K C P W L G Q T D S V G S L R L G W L Y E E P R F H G R R V M L L E G D A E L K C P W L G Q T D S V G S L R L

UniRef90 UPI000457177C	90 100 110 120  V R Q E T S   P K   V   H   L   H E R P G F S G R K   V   E   I   Q E D   P N   L   M S R F S   D R
UniRef90_G3TFG6 UniRef90_G3TFG6 UniRef90_E3TGE0	L Q M M P M N L K V I I Y E K P H F F G Q A K D F S E H I D S V P N F L K N D K L Q M M P M N L K V I I Y E K P H F F G Q A K D F S E H I D S V P N F L K N D K I H C K H S D S K V S L Y E C E D F Q G R K F E L C D D Y P S L Q A M G W C S E
UniRef90_E3TGE0 UniRef90_G1PPA6 UniRef90_H2ZY80	
UniRef90_UPI0003500433 UniRef90_UPI0003500433	T   V   E   K   P   N   E   P   K   L   L   F   Q   N   T   G   F   E   G   T   C   L   E   V   T   R   D   M   H   S   L   Q   G   E   P   N   L   R   G   T   C   L   E   V   T   R   D   M   H   S   L   Q   G   E   P   N   L   R   G   T   C   T   T   T   T   T   T   T   T
UniRef90_W5L0S7 UniRef90_UPI000441A656 UniRef90_UPI000441A656	MSPFWKVTVFEQEHFQGKCQEFTSECCNIQQCGF DN I MKDCCIPEIELCPHNSTGHFPVCIQAGIANLDELEFENP I MKDCCIPEIELCPHNSTGHFPVCIQAGIANLDELEFENP
UniRef90_E7FFX3 UniRef90_UPI000440A116	
UniRef90_H3A4M4 UniRef90_H3A4M4 UniRef90_A4IH28	L K M R P T N P K I I I Y E Q P F F T G W S M E L T E N A Y N L K M L L D D S R L K M R P T N P K I I I Y E Q P F F T G W S M E L T E N A Y N L K M L L D D S R H W K I I V W D E E C F Q G R R H E F T A E C Y N I M E C G F E T
UniRef90_W5KQM8 UniRef90_P02530	
UniRef90_UPI0003943A9E UniRef90_P49152 UniRef90_F1NRF5	T
UniRef90_K7FMM1 UniRef90_H3ASM1	L Q A D F D E S S V I L F E S D E D D G K I I V N Q D L P D L Q Q F G F G Q E
UniRef90_H2VBX2 UniRef90_H2VBX2	L   K   M   G   G   F   K   A   V   V   E   K   P   G   F   Q   G   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   C   M   E   V   D   G   N   I   F   S   F   P   E   N   D   A   D   S   T   T   T   T   T   T   T   T   T
UniRef90_Q90364 UniRef90_S7N838 UniRef90_UPI0004574BDB	I PMYRGAYRMKI YERENFLGQMMEI SDDCDSIMDRYRWSGVVRDYITPEI SLYSEEGLKGEQVKLTQALEDPHIQKRALQVTKNHCIPEVEI RESC QDNIPI FLQNEI ACIGEVGI SI L
UniRef90_UPI0004574BDB UniRef90_UPI000298E993	VTKNHCLPEVEI RESC QDNLPIFLQNELACI GEVGI SILLILM LILYSEPDFKGECRVFDHNQEAVSEKLV
UniRef90_UPI000298E993 UniRef90_UPI0003EA9457 UniRef90_UPI0003EA9457	L M
UniRef90_M7BGZ6 UniRef90_G5AMU3	
UniRef90_H3BX62 UniRef90_G3SH07 UniRef90_UPI0002A49BA2	I R NVG N S WR L KV WE R P N F E G Q S I E VA D N M P A F H E R W H S R D L P V R S G M S S L T L W D E E D F Q G R R C R L L S D C A N V C E R G G L P R A V R D Y S V P E I S L F P E E N A E G K K V V F R D T S E D A R I F G L P I K
UniRef90_UPI0002A49BA2 UniRef90_G3PIR9	A   V   R D Y S   V   P E   I   S   L   F P E E N A E G K K   V V   F R D T S E D A R   I   F G   L   P   I   K
UniRef90_S5UP12 UniRef90_F6QF07 UniRef90_F6QF07	LREHPHEFKALLFEKPDFEGACTEVDSDVYNLQEKRTLSA VTEDLDNPQITLYEQSNHQGQSLVLNCE TSLLYGTFNDK VLKDCSVPEIELCPQSDAACCPIYVQKSVANLEELNLPRS VLKDCSVPEIELCPQSDAACCPIYVQKSVANLEELNLPRS
UniRef90_F1QAH5 UniRef90_UPI000462D634	TKL VISIT PPKL VI V EKPHFOGRSWEVISRDITYNVISODCKI PT
UniRef90_I3K0X7 UniRef90_I3K0X7 UniRef90_UPI000394138A	F H V Q L Y S E E H F Q G R L V S L E D S A A A L D E D F T V F H V Q L Y S E E H F Q G R L V S L E D S A A A L D E D F T I T E S L Y N P Q L T L Y E H L N Y Q G K S R I I T E A _ T N L A A G H D N D L
UniRef90_F8W2B9 UniRef90_F8W2B9	VMVECCHFQMELFSECDCRGASVLLQDSLPIMPQGF VMVECCHFQMELFSECDCRGASVLLQDSLPIMPQGF S
UniRef90_UPI00045E5764 UniRef90_S4R8X3 UniRef90_S4R8X3	I K M D S Q E H K I C L F E G A N F K G N T M E I E D D V P S L WV Y G F C D R V P R S F V C V Q M E V Y S Q R D F S G M H R L A D A D F K T L P E G W S T V P R S F V C V Q M E V Y S Q R D F S G M H R L A D A D F K T L P E G W S T
UniRef90_UPI0004406BA3 UniRef90_UPI0003D0FD21	I PPGSI K P  GGRKVEFPTDEREREREREA
UniRef90_UPI0003D0FD21 UniRef90_UPI0002B4D61A UniRef90_G3RM04	GGRKVEFPTDEREREREREA  LRSLEMGKIIIYEHANFRGVSRELTSDESNLGHLDFNDL
UniRef90_UPI00027F85ED UniRef90_H2MU60	MPHGRATHRI RIYERED CRGQ MVELTED CSSL HDRFHLSE VFHDMLCFKVQLFSEEDFRGRELTLEDSAAALDEDF
UniRef90_H2MU60 UniRef90_UPI0002A4BBBA	I PPGS KP  CGRKVEFPTDERERERERERER  GGRKVEFPTDERERERERERER  LRSLEMGKIIIYEHANFRGVSREITSDISNLGHIDFNDI  KVNPHESKLLPWRKACFSG  WPHGRATHRIRIYEREDCRGQMVEITEDCSSLHDRFHLSE  VFHDMLCFKVQLFSEEDFRGRELTLEDSAAALDEDF  TVFHDMLCFKVQLFSEEDFRGRELTLEDSAAALDEDF  TTVFHDMLCFKVQLFSEEDFRGRELTLEDSAAALDEDF  TTVFHDMLCFKVQLFSEEDFRGRELTTLEDSAAALDEDF  TTVFHDMLCFKVQLFSEEDFRGRENTATTCTTTT
UniRef90_UPI0002A4BBBA UniRef90_H2MBV5 UniRef90_H2S0W7	VVRDHSIPHIDLETDPEGRGRVASYHDDTIETGTEGIPLT AVRDYSIPQIDLEAEVNGVGRMTSYCDDTVEISSYRIPQT
UniRef90_H2S0W7 UniRef90_H3BWU7 UniRef90_H3BWU7	AVRDYSIPQIDLFAEVNGVGRMTSYCDDTVEISSYRIPQT ILHDRSRHKLELYSEPNFQGEMVDVEDNTAALPEDFI
UniRef90_M5MCJ3 UniRef90_W5MCJ3	AVKDNCIPELELHCQE GAPVCFQKELGSLENHGRGLG AVKDNCIPELELHCQE GAPVCFQKELGSLENHGRGLG
UniRef90_A7YYE8 UniRef90_UPI0003EABB46 UniRef90_UPI000359347B	I S A M H S D S R M M L F D C E N M T G K Q W E V C N D Y P S L Q G M W C N N E V R L L R A Y R A P H Y R G N S V E F E S D C S S F V P K L H L V S Q D L L V S P R W R A Q Q M Q A L K G C A W G G G R Q E
UniRef90_Q4RWT9 UniRef90_I3MRN0	
UniRef90_H3DK44 UniRef90_H3DK44 UniRef90_I3 IP74	I P P K Q G S H R I L L Y E R E D H K G L M V E L T E D C S C I Q D R F H L N E A V R D Y S V P E I S L F P E E N A E G K K V V F R D T S E D A R I F G L P V R A V R D Y S V P E I S L F P E E N A E G K K V V F R D T S E D A R I F G L P V R P M P M G P W K I T V Y D Q E Y F Q G R R M E F T A S C Q N L M E C G M E N
UniRef90_I3JPZ4 UniRef90_H2SI39 UniRef90_H2SI39	RQQKRRVFRIKNSERGQF RQQKRRVFRIKNSERGQF
UniRef90_Q4RKK0 UniRef90_S4R5X0	I L M A H G S Q V L E V F D R N Q D A V P E K L L V R M F G E N F S I E L F E G A D L T G Q C L E L N E D C P L L V Q T W G R R A
UniRef90_G3NE15 UniRef90_U3KF29 UniRef90_UPI00044461ED	VHHDLGDPQITLYEHPNFQGACKVVTEE TNLAYGYFNDR AVTDYSLPHIDLFTEPEGQGRVTPYHDDVIETGSFGIPLN
UniRef90_UPI00039421C6 UniRef90_UPI00039421C6	VML D D F K F K V Q L F S D P G F K G S V L T L E D S V A S L Q D G F S V M L D D F K F K V Q L F S D P G F K G S V L T L E D S V A S L Q D G F S V M L D D F K F K V Q L F S D P G F K G S V L T L E D S V A S L Q D G F S
UniRef90_G1N4W0 UniRef90_H2SI42 UniRef90_UPI0003596A44	PMPMGPWKITVYDQEYFQGRRMEFTASCQNIMECG MEN RQQKRRVFRIKNSERGQF RQQKRRVFRIKNSERGQF ILMAHGSQVLEVFDRN QDAVPEKLL VRMFGENFSIELFEGADLTGQCLELNEDCPLLVQTWGRRA LKENMSQPKLVIYDKPYFTGKSRTITTNMRDFVTRADRQQ VHHDLGDPQITLYEHPNFQGACKVVTEE TNLAYGYFNDR AVTDYSIPHIDLFTEPEGQGRVTPYHDDVIETGSFGIPLN VMLDDFKFKVQLFSDPGFKGSVLTLEDSVASLQDGF S VMLDDFKFKVQLFSDPGFKGSVLTLEDSVASLQDGF S IRMEAEDHKISLYESADFKGNKMDIEDDVPSLWAYGFCDR VPVVRDHPSLSLFSLECLEGREITMDSEITSLVEEGFNNH IPHHSGTYRMRIYERDDFRGQMSEITDDCLSLQDRFHLSE VVRDFRVPRISLFLKPNGEGEKVQIEGAAPDMSEYGGAIK
UniRef90_A0JM69 UniRef90_A0JM69	V VR D F R V P R I S L F L K P N G E G E K V Q I E G A A P D M S E Y G G A I K V V R D F R V P R I S L F L K P N G E G E K V Q I E G A A P D M S E Y G G A I K

	130 140 150 160
UniRef90_UPI000457177C UniRef90_G3TFG6	F A S   R   V   G G N   W   G Y Q E P H Y R G P H Y   V L   E K R D Y N S Y S E W G A P   G S   V R   V   G G V   W   A Y E K E H F K G Q Q F L L E E G D F E D S S A C G A L
UniRef90_G3TFG6 UniRef90_E3TGE0	I GSVRVI GGVWVAYEKEHFKGQQFLLEEGDFEDSSA <mark>C</mark> GAL VPSLKVNSGAWVAYQFPGYRGYQYI LERGEYRNYNEFGAH
UniRef90_G1PPA6 UniRef90_H2ZY80	U G S F R V Q A G A W V C C Q F P G Y R G F Q Y V L E C G D Y K R F R E W G A Q L R S V R V E S G A W V G Y E H H D F Q G Q Q F I L E R G E Y P R W E G W S G S
UniRef90_UPI0003500433 UniRef90_UPI0003500433	F O S II   K A S G G C W  V   G Y F K F G F R G H O Y II   I   F F G F Y N D F S D W G G C
UniRef90_W5L0S7 UniRef90_UPI000441A656	I R S I R V E S G S W V G Y E H H D F Q G Q Q F V L E R G E Y P H W D S Y C G H V L S V K A G V W L A Y S D I D Y K G E E M V L E E N Q S P C K I S A T V L S V K A G V W L A Y S D L D Y K G E E M V L E E N Q S P C K L S A T
UniRef90_UPI000441A656 UniRef90_E7FFX3	VLS VKAGVWLAYSDIDYKGEEMVLE ENQSPCKISAT CMSCHVMDGHWLFYDQAHYRGRMWYFGPGEYRNFNNMGGM
UniRef90_UPI000440A116 UniRef90_H3A4M4	COSCHIVIMDGH WILLEYEOPNYMGRMWYEGPGHYRSERDWG
UniRef90_H3A4M4 UniRef90_A4IH28	VGSVRVI SGLWTAYEKEGYKGHQYLLEEGEYEDWKMWGGF VGSVRVI SGLWTAYEKEGYKGHQYLLEEGEYEDWKMWGGF VRSFKI ESGAWVGYEHLGFQGQQFVLERGEYPRWEAWSGS
UniRef90_W5KQM8 UniRef90_P02530	C Q S C H V M D G H WILLE Y D Q P N Y M G R M W Y F
UniRef90_UPI0003943A9E UniRef90_P49152	I H S C N V L E G H W L Y E Q P N Y R G R Q Y Y L R P G E Y R R Y T E W G A V I R S L K V E C G A W A G Y E H S S F C G Q Q F V L E R G E Y P Y W E S W S G S V G S F L V C S G A W V C S Q Y P G Y R G F Q Y L L E A G E Y K H V R E W G A Q
UniRef90_F1NRF5 UniRef90_K7FMM1	AQSVWVRSGLWIAYEGCNFLGKQLLEFGELSNWNEYSGW TRSLHVKSGVWVAYQQKYFOGEQYILEKGKYKCFFDWGGS
UniRef90_H3ASM1	IVIG S F RILIH S G A WIVI <mark>C</mark> Y Q Y P G Y R G Y Q Y ILIM F <mark>C</mark> G F Y K H W R F W G A Q
UniRef90_H2VBX2 UniRef90_H2VBX2	AGSLKI I GGLWVGYSEPRFEGQQHI LEEGEYWDGSEWGGS AGSLKI I GGLWVGYSEPRFEGQQHI LEEGEYWDGSEWGGS
UniRef90_Q90364 UniRef90_S7N838	CHSCHVTGGHWLMYEQPHYRGRMWYFRPGEYRSFRDFG VASATVSAGLWLLYPKPFFEDTPCILEPGEYPTSKDWGAS MSSIIVNSGIWLAYKKPNFNGQFTVLEPDSNPGAMSSELR
UniRef90_UPI0004574BDB UniRef90_UPI0004574BDB	MSSILI VINSGILIWILIAYKKPNENGQETIVLIEPDSNPGAMSSEILIR
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UniRef90_UPI0003EA9457 UniRef90_UPI0003EA9457	TESVKVHSGVWLVFDQPGFQGALSVLEPGEYPCPESWGFHTESVKVHSGVWLVFDQPGFQGALSVLEPGEYPCPESWGFHVSSFRAHSGAWVCSQFPGYRGFQYILECGEYKHFREWGSHVKAAKVYGGGWVLHEEPNYCGRMVLLERGDLGGFSDWEAH
UniRef90_M7BGZ6 UniRef90_G5AMU3	VSSFRAHSGAWVCSQFPGYRGFQYILECGEYKHFREWGSH VKAAKVYGGGWVLHEEPNYCGRMVLLERGDLGGFSDWEAH
UniRef90_H3BX62 UniRef90_G3SH07	VRSVKVENGVWAFEYPDFQGQQFILLEKGDYPRWSAWSGS
UniRef90_UPI0002A49BA2 UniRef90_UPI0002A49BA2	ATSIIVNSGLWLVYAEPFFQGVPRILEVGGYTNPAAWGVEATSIIVNSGLWLVYAEPFFQGVPRILEVGGYTNPAAWGVEVGSLKILGGLWVGYLEADFEGQQYILEEGEYPHCSDWGGS
UniRef90_G3PIR9 UniRef90_S5UP12	ASSHKIVIQRGAWIVIIYQHKDKGGHCMIVIARAGRDII IPDYDW F
UniRef90_F6QF07 UniRef90_F6QF07	V SFAVKSGVWLAYTDVNFKGQMTVLEEG V SFAVKSGVWLAYTDVNFKGQMTVLEEG
UniRef90_F1QAH5 UniRef90_UPI000462D634	TGSIKVHSGVWLVFSDPGFQGLLAVLEEGVYPCPQDWGFPVGSLKIMGGCWVGYEKEGFRGHQYLLEEGEYNDWNQWGGYPRSCKVLAGSWVAYEGSQFTENMYILEEGEYPSTEAMGSS
UniRef90_I3K0X7 UniRef90_I3K0X7	PRSCKIVI AGSWIVIAYEGSQETENMYII LIEEGEYPSTEAMGSS
UniRef90_UPI000394138A UniRef90_F8W2B9	VSSHKVQRGAWLLCEHSDGSGIQYLARAQEHFPNYKAINF ARSCRVLSGSWQVFAAQSFSGVQCVLDEGVYPDLRIMGFM
UniRef90_F8W2B9 UniRef90_UPI00045E5764	ARSCRVLSGSWQVFAAQSFSGVQCVLDEGVYPDLRTMGFMVGSVRVSSGTWVGYQYPGYRGYQYLLEPGDFRHWNEWGAFVGSARVLKGCWVLYSNDDFSGREFILEEGCYSCPEAFFSLVGSARVLKGCWVLYSNDDFSGREFILEEGCYSCPEAFFSL
UniRef90_S4R8X3 UniRef90_S4R8X3	V G S A R V L K G C W V L Y S N D D F S G R E F I L E E G C Y S C P E A F F S L V G S A R V L K G C W V L Y S N D D F S G R E F I L E E G C Y S C P E A F F S L
UniRef90_UPI0004406BA3 UniRef90_UPI0003D0FD21	TCSE SCSWVAYEKCGETGHQYILIFEGEYRDWNAWGGY
UniRef90_UPI0003D0FD21 UniRef90_UPI0002B4D61A	
UniRef90_G3RM04 UniRef90_UPI00027F85ED	VQYSTGLQSKWVGYQYPGYRGLQYLLEKGDYKDSSDFGAP LHSYNMLEGSWVLYELPNYQGRQHLLRPGDYRRCLDWGAA
UniRef90_H2MU60 UniRef90_H2MU60	PRSCKVLLGSWVAYEGSQFTENMYVLDEGEYPNTDAMGLL PRSCKVLLGSWVAYEGSQFTENMYVLDEGEYPNTDAMGLL
UniRef90_UPI0002A4BBBA UniRef90_UPI0002A4BBBA	V G S L K I L R G L W V G Y L E A D F E G Q Q Y I L E E G E Y S D C R D W G G S V G S L K I L R G L W V G Y L E A D F E G Q Q Y I L E E G E Y S D C R D W G G S
UniRef90_H2MBV5 UniRef90_H2S0W7	T A S I I Q I I H S G V W L V F S D P G F Q G M L I S V L E A G E Y P F P E S W G F P T G S I R V H S G V W L V Y S D P G F D G F V S V L E V G E Y P Y P E S W G F S
UniRef90_H2S0W7 UniRef90_H3BWU7	VQYSTGLQSKWVGYQYPGYRGLQYLLEKGDYKDSSDFGAP HSYNMLEGSWVLYELPNYQGRQHLLRPGDYRRCLDWGAA PRSCKVLLGSWVAYEGSQFTENMYVLDEGEYPNTDAMGLL VGSLKILGSWVAYEGSQFTENMYVLDEGEYPNTDAMGLL VGSLKILRGLWVGYLEADFEGQQYILEEGEYSDCRDWGGS VGSLKILRGLWVGYLEADFEGQQYILEEGEYSDCRDWGGS TASIQIHSGVWLVFSDPGFDGFVSVLEVGEYPPFPESWGFP TGSIRVHSGVWLVYSDPGFDGFVSVLEVGEYPPPESWGFS PRSCKVFSGSWVAYEGAQFTENMYVLEKGEYPYPESWGFS PRSCKVFSGSWVAYEGAQFTENMYVLEKGEYPTTEAMGLA PRSCKVFSGSWVAYEGAQFTENMYVLEKGEYPTTEAMGLA LASLAVKSGCWLAYDSINFEGNYTLLG
UniRef90_H3BWU7 UniRef90_W5MCJ3	PRSCKVIFSGSWVIAYEGAQFTENMYVLEKGEYPTTEAMGLA LASLAVKSGCWLAYDSINFEGNYTILLG
UniRef90_W5MCJ3 UniRef90_A7YYE8	L A S L A V K S G C W L A Y D S L N F E G N Y T L L G V R S L Q V M S G A F V C Y Q Y P G Y R G Y Q Y L M E C G E Y R H Y R E Y G A Q
UniRef90_UPI0003EABB46 UniRef90_UPI000359347B	SFRVIRGCWLLFDEEGFAGNQFVLEEGLYPDLTSCGCV EHASHLLLHRWVGYEFPGYRGRQYVFERGEFRHWNEWDAN
UniRef90_Q4RWT9 UniRef90_I3MRN0	F P S L H V L E G C W V L Y E M P N Y R G R Q Y L L R P Q E Y R H Y Q D W G A V A N S I I V N A G L W L V Y A Q P S F Q G A P R V L E V G G Y S N P A A W G V D
UniRef90_H3DK44 UniRef90_H3DK44	A N S I I V N A G L W L V Y A Q P S F Q G A P R V L E V G G Y S N P A A W G V D A N S I I V N A G L W L V Y A Q P S F Q G A P R V L E V G G Y S N P A A W G V D L R S L K V E C G A W V G Y E H S S F C G Q Q F V L E K G D Y P R F E A Y S G S
UniRef90_I3JPZ4 UniRef90_H2SI39	ILIR SILIK VIE CGAWVGYEHSSFCGQQFVLEKGDYPRFEAYSGS
UniRef90_H2SI39 UniRef90_Q4RKK0	TKSCRVSGGSWVIYEEKNYSGSLYVLSEGDYPNLSSMGCP
UniRef90_S4R5X0 UniRef90_G3NE15	TKSCRVSGGSWVIYEEKNYSGSLYVLSEGDYPNLSSMGCPVASIRVRDGAWVLYDDSNYRGRQYLLERGVYRCPAAWKASTGSLKVHGGIWVGYEKEGFRGHQYLLEEGEYHDWRVWGGHVASHVVQRGVWLLYQHPGRGGWHCLAWPGELADYKLELNFTASIQVHSGVWLVFTDPGFEGMLAVLEKGVYPVPEAWGYSVASCKVLAGSWIAFEGQDFTCRMYVLEVGNYPDLRSMGCVVASCKVLAGSWIAFEGQDFTCRMYVLEVGNYPDLRSMGCV
UniRef90_U3KF29 UniRef90_UPI00044461ED	VASHVVQRGVWLLYQHPGRGGWHCLAWPGELADYKLELNF TASLQVHSGVWLVFTDPGFEGMLAVLEKGVYPVPEAWGYS
UniRef90_UPI00039421C6 UniRef90_UPI00039421C6	V   A S
UniRef90_G1N4W0 UniRef90_H2SI42	VISIRVDSGCWVICEHSNYRGROFFIEPIFITNWIKESSI
UniRef90_UPI0003596A44 UniRef90_A0JM69	I H S L N V M E G C W V L Y E M P S Y R G R Q Y L L R P G E Y R R Y L D W G A T T E S I I V H C G M W L V F S K P L F Q G D P Y I L E P G G Y P N R T S W G A E T E S I I V H C G M W L V F S K P L F Q G D P Y I L E P G G Y P N R T S W G A E
UniRef90_A0JM69	TËS <u>LI</u> VH <mark>C</mark> GMWLVFSKPLFQGDPYLLEPGGYPNRTSWGAE

UniRef90_UPI000457177C	170 RATMGS I RR     R
UniRef90_G3TFG6 UniRef90_G3TFG6	S G P I L S F R S G P I L S F R
UniRef90_E3TGE0 UniRef90_G1PPA6	T N O I O S I R R I
UniRef90_H2ZY80	TPQVQSVRRI NSRLMSFRPV
UniRef90_UPI0003500433 UniRef90_UPI0003500433	TEELGSVRLIRDF TEELGSVRLIRDF VERFMSFRPI
UniRef90_W5L0S7 UniRef90_UPI000441A656	D  V KSFRP L
UniRef90_UPI000441A656 UniRef90_E7FFX3	D VKSFRPL KFMSMRRI MNSW
UniRef90_UPI000440A116 UniRef90_H3A4M4	N M R F M S M R R I M D N G L F S L R
UniRef90_H3A4M4 UniRef90_A4IH28	DNGLFSLR NARMTSFRP
UniRef90_W5KQM8	
UniRef90_P02530 UniRef90_UPI0003943A9E	T P R V G A F R R V Q E M F N A R M M S F R P I
UniRef90_P49152 UniRef90_F1NRF5	T G Q V  Q S      R R  V   K _  V      G S   L  R P  V
UniRef90_K7FMM1 UniRef90_H3ASM1	S E T    M S    R P  L
UniRef90_H2VBX2 UniRef90_H2VBX2	EG LKSLQPVIDFF
UniRef90_Q90364 UniRef90_S7N838 UniRef90_UPI0004574BDB	N T N F M S M R R I M D P S V G S L K P L
UniRef90_UPI0004574BDB UniRef90_UPI0004574BDB	SEHVKSLRPL
UniRef90_UPI000298E993 UniRef90_UPI000298E993	S G T   C S   K T   V   S G T   I   C S   V   K T   V   S G T   I   C S   V   K T   V
UniRef90_UPI0003EA9457	E P F  V  R S  L  R P  L
UniRef90_UPI0003EA9457 UniRef90_M7BGZ6	EPFVRSLRPL TSQVQSIRRI
UniRef90_G5AMU3 UniRef90_H3BX62	S G R V Q S L R R V V N F F
	SNQLLSFRPVL KPYIGSLHPL
UniRef90_UPI0002A49BA2 UniRef90_G3PIR9	KPYI GŠLHPL EDGLLSLRPV
UniRef90_S5UP12 UniRef90_F6QF07	N D R L T H L R P L
UniRef90_F6QF07 UniRef90_F1QAH5	TPFVGSLR <u>PM</u>
UniRef90_UPI000462D634 UniRef90_I3K0X7	N D R L M S L R L I R D F D W S F R S I Q
UniRef90_I3K0X7 UniRef90_UPI000394138A	D WS F R S I Q N D E L S F L R P L R
UniRef90_F8W2B9 UniRef90_F8W2B9	Q T A  V  Q S  L  Q P
UniRef90_UPI00045E5764	QTAVQSLQP QPQMQAVRRLRD
UniRef90_S4R8X3 UniRef90_S4R8X3	D A QI K S L R P I D A QI K S L R P I
UniRef90_UPI0004406BA3 UniRef90_UPI0003D0FD21	NAKAGSLRRVTDFY SAELQSLRPILDF
UniRef90_UPI0003D0FD21 UniRef90_UPI0002B4D61A	SAELQSLRPILDF NDTISSLQMITE HPQVQSVRRLRDM
UniRef90_G3RM04 UniRef90_UPI00027F85ED	HPQVQSVRRIERDM DARVGSLRRAVELY
UniRef90_H2MU60 UniRef90_H2MU60	DARVGSLRRAVELY DSKLRSIQ DSKLRSIQ EEGLLSLRPVL
UniRef90_UPI0002A4BBBA UniRef90_UPI0002A4BBBA	E E G L L S L R P V L  E E G L L S L R P V L  S P F V G S L R P L
UniRef90_H2MBV5 UniRef90_H2S0W7	E P F IV IG S IL IR P IL I
UniRef90_H2S0W7 UniRef90_H3BWU7	EPFVGSLRPL SSHVRSIQSI
UniRef90_H3BWU7 UniRef90_W5MCJ3	S S H V R S L Q S L
UniRef90_W5MCJ3 UniRef90_A7YYE8	T P Q I Q S I R R I
UniRef90_UPI0003EABB46	ANSIKSLKPI
UniRef90_UPI000359347B UniRef90_Q4RWT9	Q P Q L Q S V R R L R D
UniRef90_I3MRN0 UniRef90_H3DK44	DAKAGSLRRVVDLY QPYVGSLHPL
UniRef90_H3DK44 UniRef90_I3JPZ4	QPYVGSLHPL NSRMISFRPL
UniRef90_H2SI39 UniRef90_H2SI39	
UniRef90_Q4RKK0 UniRef90_S4R5X0	S S T   I <u>H</u> S   V   K A   V   S G A   V <u>L  </u> S   L   R <u>R  </u> V   N N Y
UniRef90_G3NE15 UniRef90_U3KF29	DAELRSVRVIR QSRLSHLRPLR SPFVGSLRPL
UniRef90_UPI00044461ED UniRef90_UPI00039421C6	SPFVGSLRPL SAS SSI
UniRef90_UPI00039421C6 UniRef90_G1N4W0	SAS SSL
UniRef90_H2SI42 UniRef90_UPI0003596A44	Q TVGSLFPVR NAKVGSFRRVMDFY
UniRef90_A0JM69 UniRef90_A0JM69	DPQVCSL DPQVCSL
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	UPI000388D50E UPI0003B5F477		□ D L F	T E	ΕP	ΕC	R	G R	V	ΓР	Υ⊦	l D	DTI	TE T	G	SF	GΙ	PL	N S	F	R V E	S G S G	
	UPI0003B5F477		I D L F I D L F	T I	Ξ P	E	R	G R	ר <u>י∨</u> . א	Г <mark>Р</mark> ИF	Y F	d D	DTL ACP	ĘŢ	Ğ :	SF	ĢĻ	PL	N S R S	I C	Q V H	SG	
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UniRef90_ UniRef90_	UPI00027439D6		S L F	SI	ΕE	GL	. K	GΕ	Q١	/ K	LT	· E .	A L K	N S	S Q I	ΞK	PL	QV	NS AS	V P A T		WI A G	
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UniRef90_	Q5RGY5	Ŭ	K I I F Y Q M E L F	s i	ÉC	D C	Ř	ĞA	Š	/ L	Ĺ	Ď	SLP	L	ИP	ă Ġ	FS	Ä	ŔŠ	Č F	ŶĹ	.」S G	
UniRef90_	UPI0003EDDB9F UPI0002038C81		KILVY	DΙ	< A	N F	E	GΈ	Sk	ζE	FΤ	C	DIP	DL	. Н	DΕ	G D	CI	s s	LE	R V I	]g Q	
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UniRef90_Q7LZA0	UniRef90_UPI0003B6E088 UniRef90_UPI000194CB95 UniRef90_Q9BE81	TASSR WIVIAYQYPGYRGYQYIVI I FRGFFKKYNFYSAH
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UniRef90_UPI00038E9908 UniRef90_Q80W49-3	1 10 20 30 40 GKLTFYEDRGFQGRCYECSTDCPNLQPYFSRCNSLRVLEG FSKAGFQGECLDFVKECADLTSFTP ASFKVLRG
UniRef90_V9L9G9 UniRef90_UPI0003318E83	TTĽY E QP F F K G N S K T F N E N V R D L Y S F L K M V R S L K V E G K Y E K K D F Q G H H C D H D S D G A D F H M K
UniRef90_Q4RNC6	KVTLYE <mark>C</mark> EDFQGRKFELCDDYPSLQAMGW <mark>C</mark> VPSLKVNSG LTLGEKKDXQGRRGRLLSD <mark>C</mark> TNT <b>C</b> EGLRRVRSSRVSGW
UniRef90_UPI0003EC3A85 UniRef90_Q4S9R3	
UniRef90_UPI0003469A9C UniRef90_UPI0003F16548	LFSAPDLRGDSTRVVRDTGDFNEFNDRASSLQVEEG KLTLYDQKNFQGTRTEYTSS <mark>C</mark> PNLXAQLNNYLKLRLTSG
UniRef90_UPI0004548E04 UniRef90_K4G0K6	TLYNETSLGGGGQTYTEDVPDMKDFSNRARSLKVEGY
UniRef90_H3C5L7 UniRef90_W5NNK6	
UniRef90_UPI0003836796 UniRef90_UPI0003EBD17B	ISLFPEENAEGKKVTFTSEDARIFGFPIKANSI I I NAG EGKHLTGRKLEASGX <mark>C</mark> DTFQDFVNRVPAI QVGSK LEKVGSI QVESG
UniRef90_UPI000333D130	LE KVGS LQVES G
UniRef90_D3ZEG1 UniRef90_UPI00042BE562	
UniRef90_C3XQP3 UniRef90_UPI0003C426D2	ERGLQGRRGR <mark>VL</mark> SD <mark>C</mark> TNT <mark>C</mark> ERLRR <b>V</b> RSSRW NA
UniRef90_UPI0003B3B7B0 UniRef90_A0A059DQ76	G G A V L Y S N A G F R G E A V R I D G A V P S L G G F N D R A S S I A I N R G
UniRef90_UPI00034F41D3 UniRef90_F6YDF0	LFSEPNLKGDSQRLTADSGDLSSFLKRAQSLRVTGD QLQLFSGPDFLGEQVSFQDDQPALP FQPQSCRVHGG
UniRef90_S7NB95 UniRef90_UPI000333EBDB	
UniRef90_UPI0002890596 UniRef90_UPI000379C8C3	VYSGAGQNGGSARLNRDTDDFVSFNDRTTSIVIHNG KVTLYEHLNFGGVQRVVTSDTASLGDFNDKTSSLKVEKI
UniRef90_UPI0003B3188F	LIVY DET DY GGEALGT NR DLA RLWDF DNR LS SVELLR G
UniRef90_L8YAW9 UniRef90_A0A017T981	RVILFDHENFEGEASVLTSDTASLGSFNDETSSLVVEAG
UniRef90_UPI0003B3421F UniRef90_UPI00034AB66F	L VA Y Q H H H F G G K A L L F N D N C L V D N Q F N D T L S S L R V R R P
UniRef90_F8W389 UniRef90_G3URT2	R L T V W E E E N F Q G K R C E F R L E C P N I L D R F Q K L R S I K V D N G E G L P I C I Q S A V A N L E E L D V E K N P I H V K S G
UniRef90_B2BRT1 UniRef90_A4BHP0	KIILY DEPSFEGLS LELTRS QTKL QNFSKAASSLRVIĞQ LFQHLDFKGNSVHLTEDNS CLTDFDNDATSLKVTEV
UniRef90_K7GIG6 UniRef90_R9ERA1	CFYESDNFEGESICLSGNHYVLNPLNDRVDSIKVPED
UniRef90_UPI0003EDCB00 UniRef90_UPI00035E6D09	I LY QHGDFSGQSI LIQGTTEALPVLDDQVSAIQVLSG
UniRef90_L9PB84 UniRef90_D3PIA3	LYSETGFHGRSTEIRDYVGDLDTNFDDVSQSAVING
UniRef90_UPI0002894E31	KVT I Y Q N N F K G Y A T V L N S D L S C L S D WN D D I S S I R I E R P VT L Y E H P N F Y G R R K T F T S N T T Y V G D D F E N L T S L I V Q G G
UniRef90_S9PJP7 UniRef90_UPI0003940B8B	
UniRef90_UPI0003B44C34 UniRef90_UPI00042BE810	G E L V L F D G A N F N G E A R A L N G P L D T L V D F N D R A A S L D F Q G P
UniRef90_UPI000370173C UniRef90_B5YBM7	VFYEDKN <mark>C</mark> DGFYF <u>PVL</u> NDIPDLSGFNDRVSSIYLPPS
UniRef90_A1SWJ5 UniRef90_D0LWS8	RATITY FHAN FR GRHKS FSSDAS WVGDD FN DITAS GILL V FK
UniRef90_W0UI68 UniRef90_W8G2Q2	KVCFFADEGYQGKSFCASQAVSDLSEWNDRISSIYIPPGKVCFYMDDNYNGESLCTTADIPD QWNDRISSISVPHGVSVFKDLNFSGRTLTLKDSVDSLSSLDDEISSFKVRSA
UniRef90_C4TXN3 UniRef90_C4T6M3	V S V F K D I N F S G R T L T L K D S V D S L S S L D D E I S S F K V R S A K V C F F A N N N Y T G K S V C A G E V S D L K D W S D K I S S I F V P S G
UniRef90_Q95K08 UniRef90_A4BGK1	
UniRef90_X4BGK1 UniRef90_UPI0003B3E575 UniRef90_K9Q430	KVILHQHRDYRGKRLALGGFYPNLHDFADRLSSINVPGP
UniRef90_C4S439	RVTLYQHHNRTGNSLTHDFSTTYIGDWFDETSSIVIEKA VTLYEHVDFSGHSFTLNRDTDLLHSFNDKTSSLRV KD
UniRef90_P02966 UniRef90_K2MTN3	I TVFYNEDFQGKQVDLRAQLAALGIENNTI SSVKVPPGVCFYEHANFRGESFCAIGDGTRLQFWNDRI SSI RVGRRVTVYQDGDFGGTSQQFGVGLFNVSQGNDKI SSVKVPGY
UniRef90_UPI000413E327 UniRef90_A0A059E2W9	UTIVIY QDGDFGGTSQQFGVGLFNVSQGNDKLSSVKVPGY LFSGEDFRGEVREVFDSVYSLNDFNDRAQSVAVLSG
UniRef90_UPI00037FA1E4 UniRef90_A8C9L8	LFSGEDFRGEVREVFDSVYSLNDFNDRAQSVAVLSG LIAYHRSDFQGERINIHADWSVNNPWNDAINSLIVPRG GAHEEFTDSEENLKSNLNYER AEVTAG
UniRef90_G8TM94 UniRef90_F7GES6	QVQLYNDDNFAGTVVTVTSDNSCLNSFNDLTSSLKISAV KITMFNQPGFRRLSVEFAFKIPN CVFDKAISSLKMISQ TLYTDINYLGDDI QTNDDI SCLADMNDTI SSVKLAEG
UniRef90_A0A023V551 UniRef90_A0A059G6X4	T L Y T D [ N Y L G D D I Q T N D D I S C L A D M N D T I S S V K [ A E G L C E H S D F T G R C V F L R E D V P D L R Y F D G E V S S V R P E S G
UniRef90_UPI00034B9126 UniRef90_S9P4N6	VILYENNFRGGRRLGUNATNSDFGNWNDKTSSIEVVRG
UniRef90_C9J5N2	USLFALEHCEGRELHLEGAVNSVKDLHFYTQSVWVKSGCFYDRPNFKGRRY CAGIGDDVRGLRGRIASIRVERT
UniRef90_I5C4H9 UniRef90_S4XQ36	V V L Y E H S D F S G A S Q A F R Y D V D L T I G N D R T S S I R V P A G
UniRef90_UPI000287E8B9 UniRef90_B4RH80	G D V I I Y E H C N F G G E S L A L N S N F N N L K F S N D Q L S S I K I A S G G S A T L Y E L P N Y Q G R S V T I T N S V S D L G D F N D R A R S A R F Q G V C F F E D A N F R G R S F C A D S D R R L S E F W N D R I S S V L V G R R
UniRef90_K2N7K9 UniRef90_Q08R12	V C F F E D A N F R G R S F C A D S D R R L   S E F W N D R   I   S S V L V   G R R K V T F Y E N D N F G G A S L V K T A D C L V G A G W N D R V   S S M V V E S P
UniRef90_A1JJD3 UniRef90_UPI0002EF4B32	K V T F Y E N D N F G G A S L V K T A D C L V G A G W N D R V S S M V V E S P G K V C F Y E L A D F N G K S F C S A E N E S I S A Y N N E I E S I S V P P G K V C F F A D E G Y Q G K S F C A S Q A V S D L S E W N D R I S S L Y I P P G
UniRef90_C4SEK4 UniRef90_UPI00037F6C11	V TVY E D G D F A G R S L T L K E S L D F L S S K N D A I S S F S I K H L T L Y E D R N Q A G R A V S L G S G R H N L N D F N D L A T S V F V R R V
UniRef90_D9UIG8 UniRef90_S4XT18	RVTVFTHHNFEGEARVFTSDADLVAAGFSDVISSFVVSD
UniRef90_UPI00036A29A1 UniRef90_J3BWN7	GG
UniRef90_L7F7B0	$SFSGG\square PS\square RP\square TG$
UniRef90_M5FDS0 UniRef90_Q6LIE0	KVCFYEDENFLGQKWCTQGQQNMPSSLNDKVTALRLYGN
UniRef90_UPI00036788A8	Y A H A WF Q G Q F L D F T A D V P A V S D WN D Q V S S L V V E P P

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UniRef90_UPI00038E9908 UniRef90_Q80W49-3	H WV L Y E L P N Y R G R Q Y L L R P Q E Y R R Y H D W G A M D A K A G S L R R C W L L Y Y Q E D G F Y H Q C V L E E G L Y V D L T S C G C P S A R I R A L Q P
UniRef90_V9L9G9 UniRef90_UPI0003318E83	PWIAYGGQEFCGDFKIYKEG DHTNLGDFSEKISSLQV KPHLAGHMFVLPQSEDPEYQYWLGVSDRLGSVCL
UniRef90_Q4RNC6	A WIVIA Y Q F P G Y R G Y Q Y II L IE R G E Y R N Y N E Y S A H T N Q IV IQ S II IR R
UniRef90_UPI0003EC3A85 UniRef90_Q4S9R3	P EYPNFQGQQIILEKGDHSCWSTWNHSSDQLLSFRV MGFSSCIRSCRM
UniRef90_UPI0003469A9C UniRef90_UPI0003F16548	S WQLCSDADYRGVCRVFEPGAYRDVGR ELNGRVSSARL S WLGHEHLSFCGQXFLLERGKYPRWNAWSGHNERLMSFHS
UniRef90_UPI0004548E04	
UniRef90_K4G0K6 UniRef90_H3C5L7	P WVA F T K K A F Q G E F K L Y R V G Q Y M N L N D F A V K I S S L R V M S M S D C L R S S R M
UniRef90_W5NNK6	
UniRef90_UPI0003836796 UniRef90_UPI0003EBD17B	LWLVFAEPFFQGVPRVLEVGGFPSPSAWGVTHPYVGSLHAWVSLTHPNCRGQQYVLEXRDHPNFFWWNGHDDHXGSCQPPCLTFECRAFCGEQFVLEKGDYPHWDVWSSSHHSDSLLSL
UniRef90_UPI000333D130 UniRef90_D3ZEG1	P CLT F E C R A F C G E Q F V L E K G D Y P H W D V W S S S H H S D S L L S L M G S C R P
UniRef90_UPI00042BE562	WIGS CIKF
UniRef90_C3XQP3 UniRef90_UPI0003C426D2	F WMAYEYPNFQGQQLLLEKGDHSCXSAWNHSSDQLLSFRY
UniRef90_UPI0003B3B7B0	M S G GIL IR S C R M
UniRef90_A0A059DQ76 UniRef90_UPI00034F41D3	VWEVCVDANFRGRCELIDASKRHLNA YRLNDTISSIRPPWIVFTGTQYHGEFTHYREGSCNTP GFANQISSVRVSWILFDETEFEGDQHMLSEGEYPTLTAMGYFSATPRSLRK
UniRef90_F6YDF0 UniRef90_S7NB95	S WILF DETEFEGDQHMLSEGEYPTLT A MGYFSATPRSLRK NP
UniRef90_UPI000333EBDB	
UniRef90_UPI0002890596 UniRef90_UPI000379C8C3	Y WQL
UniRef90_UPI0003B3188F	EWEF <mark>C</mark> EGSNFRGD <mark>CVIL</mark> TADETRLYA   LQLDNRLSSLRE
UniRef90_L8YAW9 UniRef90_A0A017T981	N P Q V V L Y K D Y R Y A G T S Q V L T P G R Q D M S A L T A S D N R L S S V K V
UniRef90_UPI0003B3421F UniRef90_UPI00034AB66F	PPVVYQHCNFAGYARNLAPGRYNLLTRLGIRNDDLSALRV
UniRef90_F8W389	PWVGYEYPEYQGQQFILEKGDYPCYQAWSGNSEHMLSFRP IWLAYSDLNYKGEMKILEECSEPS EIPSADVRSVRP
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UniRef90_A4BHP0	P WV VY D Q C N F E G R V A R L S V A D Y R D L A V L G L A N D S I S S V R V I
UniRef90_K7GIG6 UniRef90_R9ERA1	SLKSLRV IQVVYKDNDFSGDYFVLADDFYYDELEKLGMNYALTSLKV
UniRef90_UPI0003EDCB00 UniRef90_UPI00035E6D09	H WK A WS G P Q G T G E Y M Y L Q P G L Y D I K D L K W N D A I S S I E Q
UniRef90_L9PB84	
UniRef90_D3PIA3 UniRef90_UPI0002894E31	V W V F Y E D V D Y F G R R S F Y G W G K N H Q I P S F G Q L N W A F S S I R Y Q V M V Y K D C G F N G K S V V L K S G N Y S Q L A N L G I L N D D I S S I K I
UniRef90_S9PJP7 UniRef90_UPI0003940B8B	QVMVYKDCGFNGKSVVLKSGNYSQLANLGILNDDISSIKI PAVIFDDLQLQGGGQALVPGIYHLSDIGMGDN AVSSLMV
UniRef90_UPI0003B44C34	GWLLCKDSFYEGPCLV ARQPIADLDRF GMGDEITSAYP
UniRef90_UPI00042BE810 UniRef90_UPI000370173C	_ IYSDVRYGGKSQKLTVGKY DMNSLTIGNDTLSSFHV
UniRef90_B5YBM7	L WE V Y
UniRef90_A1SWJ5 UniRef90_D0LWS8	
UniRef90_W0UI68 UniRef90_W8G2Q2	MIVVFKDIYFSGENLTFKESIDLEFRRWANLNDAISSFKV LIVVYGDINFAGASRTFEADDLVSDKSLMYLNDNISSFEI
UniRef90_C4TXN3	_ A _ C
UniRef90_C4T6M3 UniRef90_Q95K08	MIVVY ENN DFSGKALT FRDDVDLSSRSWADLN NEI SSFRV DLTSCGCPASKVKSLKP YRNCQYENWFLAPGQYADLEYLGFGNNRVSALRV
UniRef90_A4BGK1	Y R N C Q Y E N W F L A P G Q Y A D L E Y L G F G N N R V S A L R V
UniRef90_UPI0003B3E575 UniRef90_K9Q430	E W D C Y E H V E F R G R K   T     L   R D N L   R D P Q G G T W F E D R     S S     R       P P V   Y R D G S Y R G R R Q E L S V G S Y N V G G L S Y I G N E Q L S S L K V
UniRef90_C4S439 UniRef90_P02966	E WD C Y E HVE F R G R K II T I L R D N L R D P Q G G T W F E D R I S S I R I P P V I Y R D G S Y R G R R Q E L S V G S Y N V G G L S Y I G N E Q L S S L K V A V C L Y E S D N F I G D A I C L S E G K Q I D L Y S L N S L N D Q I N S I T V Y A I L Y Q N D G F A G D Q I E V V A N A E E L G P L N N N V S S L R V
UniRef90_K2MTN3	ASIV VICEBENEGGI WICELII IRD DIVIREER GRAND AII ISS YRIV
UniRef90_UPI000413E327 UniRef90_A0A059E2W9	_
UniRef90_UPI00037FA1E4 UniRef90_A8C9L8	Y A HL F E H G G F R G G Y L V I R G R W S S R Q D W Y N R I S S I R S C S R T W F Y K H A N F N D Q Q K L L N P G A I E D I K S V N G S M Y L
UniRef90_G8TM94	
UniRef90_F7GES6 UniRef90_A0A023V551	S   L   G   V   F T N C N Y S G T K   I   A   L   L   E S N S A   L   S S G N N A   I   S S   V   K   I
UniRef90_A0A059G6X4 UniRef90_UPI00034B9126	Y II R Y A D D A Q Y G Y D N Y V Y H Y G Y S P A Y R S Y G Y Y D N T Y R P H H R
UniRef90_S9P4N6	GIVIT F Y P D P N F G G T GIVITIL IGIVIG S Y D Q M R A A GII IA N D S II IS S II IRIVI
UniRef90_C9J5N2 UniRef90_I5C4H9	LWIAYEGSNFLGROILLRPNEIPNWTAFSRW KTIGSLRP SVEICSWPDRDGRCSLLTRDV PLLRRG DAASSFRV
UniRef90_S4XQ36	SVEI CS WP DR DGR CS L LT R DV PL LR RG DA ASSFRV LR V V FF N A N F E E GAY V FT S DT N LATA GT N GV S V S I S S I V V
UniRef90_UPI000287E8B9 UniRef90_B4RH80	TWPV CENDERCOOL PROVENIED VENERALIST
UniRef90_K2N7K9 UniRef90_Q08R12	A AVV CEHENFGGWCQMVTDDIRLFP GSRNDAISSGGGTVVVYKDCNFTNPGFNLPVGSYNELRTLGLSPDVLSSLQMVVLYDETDFSGNKITLKNDINLKRLKSSGFYKRINSMLVVFKDLYFSGENLTFKESLDLEFRRWANLNDAISSFKV
UniRef90_A1JJD3	MV V L Y D E T D F S G N K I T L K N D I N L K R L K S S G F Y K R I N S
UniRef90_UPI0002EF4B32 UniRef90_C4SEK4	MIVVFKDIYFSGENLTFKESIDLEFRRWANINDAISSFKV AACFYEYDQYFGGSMCISGGEKMDLYKGLSLNDRVSSIKV
UniRef90_UPI00037F6C11	A A C F Y E Y D Q Y F G G S M C L S G G E K M D L Y K G L S L N D R V S S I K V A V E F F S D Y D F T G E R L K V D T L G Y Y A M P G Y F N D K I S S L I V V L Y T D G G Y A G T S A V L A P G D H P A L R A A G L G N D S V S S L R V
UniRef90_D9UIG8 UniRef90_S4XT18	
UniRef90_UPI00036A29A1 UniRef90_J3BWN7	V L C E D A D Y Q G Y C L G L Y A G T R I N T L D E K F F N D K A S S I V T V Y Q N C N Y T G Y A I A L P A G N Y T L L K S Y G I V N D D L S S V R L A V A F K D V N Y T D P G T V L A V G D Y A Q L Q Q A G L G T L S L S S L W L A C V M F E D T N F R G R S L E M S P D D R V D F R N G Q F W N D R I S S V M V A Y V V Y E H A Y Q W G K S T T V M Q D T Y R L A R L S D S I S S F E L
UniRef90_L7F7B0	A VAFKDVNYTDPGTVLAVGDYAQLQQAGLGTLSLSSLWL
UniRef90_M5FDS0 UniRef90_Q6LIE0	A CVMFEDTNFRGRSLEMSPDDRVDFRNGQFWNDRISSVMV A YV VY E H A Y Q W G K S T T V M Q D T Y R L A R L S D S I S S F E L
UniRef90_UPI00036788A8	PV VD H VA D F WG R WLV L K P G R Y D DLN A T S L G A A T L S A L L L

	90	100	110	120
UniRef90_UPI00038E9908 UniRef90_Q80W49-3 UniRef90_V9L9G9	V I DYVFEEPSISLFA I KVSLEDPEI VLYE	LEHCEGRELHI HINYGGKKVSV	E D A V N S V L N K D L H F L E V N R N V K G A G L E G	- γ 3 <del>H</del>
UniRef90_UPI0003318E83 UniRef90_Q4RNC6 UniRef90_UPI0003EC3A85 UniRef90_Q4S9R3	I Q H F C R N H S D S P A T L F E	G D N F E G C R F E F	TED <mark>C</mark> PSIWELFHMX SDDYPSLPSMGWAS MDD <mark>C</mark> P <mark>CL</mark> SDRFHHR	S R
UniRef90_UPI0003469A9C UniRef90_UPI0003F16548 UniRef90_UPI0004548E04	V D D G G R D G R V V L F E I C S N H K E S K I N I S E	H G D M R G R P A P L K E N F T G H H W X T	LRDASNFGEFNFNC CDDYPSLQAMWFNN TGPSDDPRGQGPPL	O K N E
UniRef90_K4G0K6 UniRef90_H3C5L7 UniRef90_W5NNK6	I KESLENPQLTLYK LPMHRGPFRMRIYE QYQGSYRMRIYE	NVNYTGAGKDI RENFGGQMHEL	FEELDNVDQLKKGG VDD <mark>C</mark> DNMVERFRMS MDDLPNVYDRFRYH	GE SD
UniRef90_UPI0003836796 UniRef90_UPI0003EBD17B UniRef90_UPI000333D130	PLKIGEPRVELYEVGMLREHFRLEVFQXPLHVPDHKLHLFE	GCTFSGQCLEIL NPAFSGRKMEI	Q E D C P P A E Q G X A K I M E D V L N L X A H G F Q D	□R 0 W
UniRef90_D3ZEG1 UniRef90_UPI00042BE562 UniRef90_C3XQP3 UniRef90_UPI0003C426D2	VGMLREHFRLEVFQ XPLHVPDHKLHLFE VGMHGEHFRIDLFE MSQYSGKITFYE SISIYD PNLNHSDSPVTLFE	GKYFTGRKLEN EEGLRGTKHTF	VEDUPFLQSRWAKS CONFODREFM SDTVADVPAG QN SDDYPSLPSMGWAS	NR NS R
UniRef90_UPI0003B3B7B0 UniRef90_A0A059DQ76 UniRef90_UPI00034F41D3	PSYRGSYRMRIYE AGYDRGGRHVVLFP VPGGLITPKITIYE	RENFGGQMYEN DSNQRGYAMEN DNYFGRAVTU	1 M D D <mark>C</mark> D S I M D R Y R M S   S R D V A D L S Q Y R F N D   F K A T F T I K S H G F D N	S D O K
UniRef90_F6YDF0 UniRef90_S7NB95 UniRef90_UPI000333EBDB	WPWSAATRAPMRG MPGSVGPWKITIYD MNHTQTSQTTLCE	GKHFPGWKII IFI\	/   W G D <mark>C</mark> D O P P G R G F   V   N	O N N R
UniRef90_UPI0002890596 UniRef90_UPI000379C8C3 UniRef90_UPI0003B3188F UniRef90_L8YAW9	LDEREÜRRQVLLFPS GYKVTLYEVPVGTARADVVVYQLPGALGPWKITIYD	HGDFQGATKIVL	.LIGDASYILIG IVIDEN D	) K
UniRef90_A0A017T981 UniRef90_UPI0003B3421F UniRef90_UPI00034AB66F	PT NWT VIL YK	DSGYSGTSKTL HDNFGGRALTF	_]T	D T
UniRef90_F8W389 UniRef90_G3URT2 UniRef90_B2BRT1	I K C L K M M P M N V K I I I Y E I L A N L G N P V I K L F E	KTHFGGWSKEF GQSLSGKSIV	'INEA AIILINFGKILIEN	٧G
UniRef90_A4BHP0 UniRef90_K7GIG6 UniRef90_R9ERA1 UniRef90_UPI0003EDCB00	INLELS E P C LALF E S Q Q E Y F	KEGFKGKKMEF DPDVSDACIEN	T S D D D <mark>C</mark> L T D D D W N N T A E V L N L Q F L G Y N F T F S D T E D C S S W S L S	Q
UniRef90_UPI00035E6D09 UniRef90_L9PB84 UniRef90_D3PIA3	VYATRTPPAVEVFT MAQITFYE SNENMKYSTLNFYE	HDNQSGESYAL HDGWRGRTFTA ESGFMGDEQYF	_R	E K O R K S
UniRef90_UPI0002894E31 UniRef90_S9PJP7 UniRef90_UPI0003940B8B	P N G Y K M T I   Y Q P P G W T V T L   Y E M S M R G K I I F Y E	HNNFRGYNASF	T S D T K <mark>C</mark> L S D S N W N C T T S N T T Y V G N D F E N M S D C S D M T S Y L S	D D
UniRef90_UPI0003B44C34 UniRef90_UPI00042BE810 UniRef90_UPI000370173C UniRef90_B5YBM7	HPTQPGINKIIVYEPPGLQVTLYT	RTDFEGLSREF DANFKGDALRF NKNESGAFIKI	T S D V P D L H E L D F G C F S D V P V I N S K Y N C P Y S I P N I S O Y K F N C	) <mark>C</mark> ) T
UniRef90_A1SWJ5 UniRef90_D0LWS8 UniRef90_W0UI68	LKYPRDLLEFLFYE AEVQAFVCKDSFYR PQGLMA TLYE RSAACFYD			
UniRef90_W8G2Q2 UniRef90_C4TXN3 UniRef90_C4T6M3	KKA VCFY GPDT QVTLYE	E S N F T G D S V C L H D S F T G K Y Y V I Q D N F L G E S I C L	S G E E L D L Y R G G Y N C T N D F S D L E A L G M N K S G D L F N N T D R R R N C	) D ( N ) Q
UniRef90_Q95K08 UniRef90_A4BGK1 UniRef90_UPI0003B3E575 UniRef90 K9Q430	P D F P R D G A F V V F Y F	HPEFEGASIEN	KKELPNI HLONEGE	N K D S
UniRef90_C4S439 UniRef90_P02966 UniRef90_K2MTN3	I S <u>VPVQPRARFFY</u> LGGGESFSRA <mark>C</mark> FYE	KEQFDGKEVDL HADFQGARI <mark>C</mark> F	T S N T S Y V G N G F D N T E T Y S D L K D [ G M D N Q Y T Q A E L E R Y G D N N D E G T A R L P Q Q W N D	N T D R
UniRef90_UPI000413E327 UniRef90_A0A059E2W9 UniRef90_UPI00037FA1E4	ERLGGPNKPVIAYS IYEYTEAEHGLMFT TCEYLPPPTITVFE	N S P Y G G Q Q F D   R D H H S Y R G A S F T   I	_ S	D T D R
UniRef90_A8C9L8 UniRef90_G8TM94 UniRef90_F7GES6 UniRef90_A0A023V551	T S G Y Q V Q L Y A	DDNFLGNSQT Y LVPLLPIKKE	TEES <mark>C</mark> ANVNPDFQSG 'GVDNS <mark>C</mark> LVTNGFND DNISHKGFG 1DGD  KDLSTYSLND	O A K
UniRef90_A0A059G6X4 UniRef90_UPI00034B9126 UniRef90_S9P4N6	KPRPLRGHDATLYV VG	DSKGRGASLIGI	NHGVSDLSRYRFNC TSDNANDANTGNDN	O N
UniRef90_C9J5N2 UniRef90_I5C4H9 UniRef90_S4XQ36	MKQPAVYIRL LRRFEPMSRACFYE SHASDPQLDVTFYE	GVDFRGASL <mark>C</mark> F	<del></del>	R
UniRef90_UPI000287E8B9 UniRef90_B4RH80 UniRef90_K2N7K9 UniRef90_Q08R12	SKTNEAKP AGFGRPRP NWGGGRSKRA <mark>C</mark> FFE	HANFQGAR <mark>IC</mark> F	DEGTARLPPNW NC	) R
UniRef90_Q08R12 UniRef90_A1JJD3 UniRef90_UPI0002EF4B32 UniRef90_C4SEK4	RSAA <mark>C</mark> FYE PKNM QVTUFK	F D N F T G D S I C I	T G T T S C L V G A G W N C Y H D Q E A I I E S G H N C S G E R I D L Y N E T Y G R A E N Y A E L E D L D M D Y	R R
UniRef90_UPI00037F6C11 UniRef90_D9UIG8 UniRef90_S4XT18	PS GYEVTLYE P AGWTVTAYA P DGFKLTLYD	DYNQAGRS <u>I KIL</u> DAGFTGTRWV F	GAGRHNVSR FND TGDTPDLVALGAND TAD ANIDSYDEDD	O R O R
UniRef90_UPI00036A29A1 UniRef90_J3BWN7 UniRef90_L7F7B0	I K I L D N R Y N V T V F E E N G Y K I T M Y Q A P G Y R L V G Y S	HLNWTGRSTTN NDNFGGES <u>VVI</u> GDNFTGTSWTF	<u> </u>	O K
UniRef90_M5FDS0 UniRef90_Q6LIE0 UniRef90_UPI00036788A8	<u>L</u> ERT <u>S</u> NDFA <u>C</u> LYQ	NAGYDGTPMCA	N R G L R D L Q R A G W N D M M E G I A D M G M A E L T N L A D T L E L P A E W N N	١E

			130	140	150	160
UniRef90_ UniRef90_	_UPI00038E9908 _Q80W49-3 _V9L9G9 _UPI0003318E83	I IS S H K V K K	GAWIILIYTE	ETE ILI <mark>H</mark> GKRM	LTPKELPNWTAI MFSMEDQPNY <mark>C</mark> LL LDRME <mark>C</mark> XKPLDV	L G W
UniRef90_ UniRef90_ UniRef90_	Q4RNC6 _UPI0003EC3A85 _Q4S9R3	VGSLKVSS VYS <mark>C</mark> NVMN	E A WV A Y Q Y G Y WI F Y E Y	Y P G Y Q G X Q Y V Y P N Y R G R Q Y F	LEQDXHRELHT` LRTGEYRRYRD\	Y S G F W <mark>C</mark> A T
UniRef90	_UPI0003469A9C _UPI0003F16548 _UPI0004548E04	VGSMKTQ GASIIVSA	GLWVAYE H		<u>'Y</u> G P G R Y P R L D <u>'L E K G V Y R N <mark>C</mark> D D N</u> T K E N V P N Y V (	G M W G S G
UniRef90_ UniRef90_		CQSCHVMD LHSCNVME	G H WL M F E C G Y W M F Y E C	Q P N F R G R M <u>L</u> Y Q P N Y R G R Q Y F	VRPGEYRDLRDI MRPGEYRRFSD	LEMS
UniRef90_ UniRef90_		V S A T A V S D V A S V Y A I S V N A I K V Y D	WGVGYEF	F	FKQGEYQ <mark>H</mark> VVERGDFRSFSDV LEHG <u>E</u> YPNFYRV	WNAS WEAH
UniRef90_ UniRef90_	_UPI00042BE562 _C3XQP3 _UPI0003C426D2 _UPI0003B3B7B0	CFSIKVTS VGSLKVSS	G E WL VIY S Y E A WV A Y Q Y	/	'LENGEYPNFYR' LPPGIYPDPGAI 'LEQDELHTYSEI 'MRPGEYRSFREI	N T T W F G T <mark>H</mark>
UniRef90	_A0A059DQ76 _UPl00034F41D3	ASSFYVSG TSSHKAER AFKVWVGG	GTWQV <mark>C</mark> EF GVWILYD0 GTWIL <mark>C</mark> EF	H	L T A G D L G P L R / T V A G D WV P D Y V I / L D C T E I T N WL T I	M PLGW FSG
UniRef90	_UPI000333EBDB _UPI0002890596	VRSLKVEC MNSVRVES ASSIVVNE	GALITLEFE	( F N F I G R O W F	II	MGWF
UniRef90_ UniRef90_	_UPI000379C8C3 _UPI0003B3188F _L8YAW9 _A0A017T981	T S S I K V I S S I Q V R R V R S L K V E C	GTWEI <mark>C</mark> SI GAW <mark>VC</mark> YQY	O G N Y R G R <mark>C</mark> E T Y P G Y R G Y Q Y <u>[</u>	ISADMPR LNO LE <mark>C</mark> GDYKHWREV	GIRM WGAQ
UniRef90	_UPI0003B3421F _UPI00034AB66F	ISSVVIRR TSSIKVEE	PKA <u>II</u> YEF	H G N F Q G R S Q C		
UniRef90_ UniRef90_ UniRef90_	B2BRT1 _A4BHP0	ASSWQVLS ATSLKVKS	G A WK I <mark>C</mark> D E A A A <mark>C</mark> L Y D L	<u>:</u> . P G F G G G E L <mark>C</mark>	LEEGDYEDTHT\ VGTGEFNVPTF\ LSPNK[]SDWPK[	W
		VVIVKVVR TSSIRVIS	G <mark>C</mark> WLLYEK	(PNFEGHSIP		WGAE
UniRef90_ UniRef90_ UniRef90_	_L9PB84 _D3PIA3 _UPI0002894E31	ASSIVVVIDR	G Q W E  V <mark>C</mark> D [	O A N F R G N <mark>C</mark> M V	L R H G S Y E S L A G I	M G L
UniRef90	_S9PJP7 _UPI0003940B8B _UPI0003B44C34 _UPI00042BE810			<del></del>	MRPGEYRSFREI	
	_UPI000370173C _B5YBM7	I S S I E V S E	S R   V V I   Y Q S G W I I V   Y E N	S G <mark>C</mark> F T G S <mark>C</mark> M D N T H F E G K E M E	)FAPGQY D V DK I	L]G∐G M G W
	_W0UI68 _W8G2Q2	SHILNPLD VYSIKIPP	T Q A L I Y E N G M Q T V Y E D	N D G Y G G V Y F T D D N Y N G K Y F V	LTES <mark>H</mark> SESNLEI LTEDYTSDDLSI	NI G M
UniRef90_ UniRef90_ UniRef90_ UniRef90_	_C4T6M3 _Q95K08	T S M K V S L S S I K L Q N T Q S V W V K S	T Q V T V Y K N G L WI A Y E O	Q E Y F T <mark>C</mark> D Q Y <mark>C</mark> N D N Y S G D Y F T G S N F L G R Q I L	;    LTDDYSAFLQI  LRPNEIPNWTAI  LTEGLYNDLQKI	K I G M F S R W
	_UPI0003B3E575 _K9Q430	I S A I K I E G T S S I K V I S S L K A Y Q	D N N F L C D F	H S		
UniRef90_ UniRef90_ UniRef90_	_P02966 _K2MTN3 _UPl000413E327	I S S V K P Q G	LAVVLFKN GAQAVCF	N D N F S G D T <mark>L </mark> F H F N F G G W C O T	V NSDAPT VRR DIRRFPQI LTADAIYVGSDI	G A M Y
		ISSIHIRG VSSAIVLS ATSIKI	Y A <mark>V I L</mark> Y E E K N Q S F F S k	OAYYQGRS <u>VV</u> KPNFQGLQQK	L E H N W S P Y N S I L K P G Q Y A T P N A I	RDFW MGFP
UniRef90_ UniRef90_		V S G H S V Q R L S S I Q V Q G	Y K A R L Y E N	(	FRDGD DITAG SAAII LDASTGK LNO	
UniRef90_ UniRef90_	_C9J5N2	□S S F R □Q				
UniRef90_ UniRef90_ UniRef90_ UniRef90_	_S4XQ36 _UPI000287E8B9	VSSVRV	GAAR <u>II</u> CEF	RRN <u>L</u> T GW <mark>C</mark> ET	∐E K	
UniRef90_ UniRef90_ UniRef90_	_K2N7K9 _Q08R12	AASIVI			VR GDAARFSD	R H A L G M
UniRef90_ UniRef90_ UniRef90_	_UPI0002EF4B32 _C4SEK4 _UPI00037F6C11	S H L L N P L N I T S M T A S	D F V L L Q (	DENFII <mark>C</mark> DQY <mark>C</mark>	A I K G D Y W H D E R [I V V D R G Y Y A I P R	
UniRef90_ UniRef90_ UniRef90_ UniRef90_	_S4XT18 _UPI00036A29A1	TSSFTVER ASSLYVSG ASSVKISA	P H Q N GVV L \	/ D N Y G	M S G D W T S S A N	ΤIPL
UniRef90_ UniRef90_ UniRef90_	_L7F7B0 _M5FDS0	VTSLRVQ LSSAECYC MSSVFLSG	A R A S A T L Y S [	O T N F N S R S [V]T	LSSGNLKDH	G F
UniRef90_	_UPI00036788A8	AASLEVID	TRQ			

Unikel90 UP10003818908 Unikel90 UP1000318E803 Unikel90 UP1000318E803 Unikel90 UP1000318E803 Unikel90 UP1000318E803 Unikel90 UP1000318E803 Unikel90 UP1000316548 Unikel90 UP1000316548 Unikel90 UP10003816504 Unikel90 UP100038167658 Unikel90 UP100038167658 Unikel90 UP100038167658 Unikel90 UP10003816767 Unikel90 UP10003816767 Unikel90 UP10003816767 Unikel90 UP10003816767 Unikel90 UP100038167 Unikel90 UP1000381687 Unikel90 UP100381687 U		170
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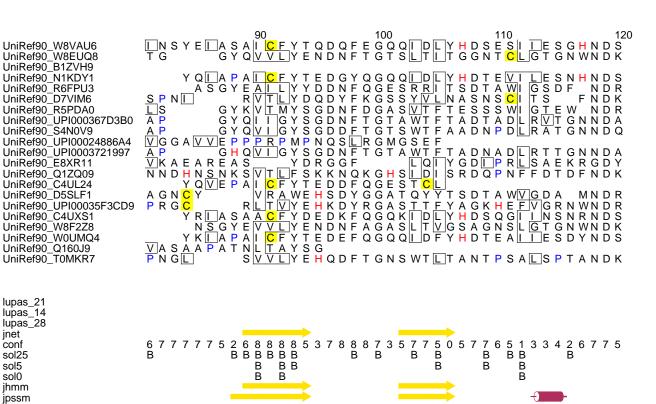
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lupas\_21 lupas\_14 lupas\_28 inet conf sol25 sol5 sol0 jhmm

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lupas\_21 lupas\_14 lupas\_28 inet conf sol25 sol5 sol0 jhmm

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