

QUERY	1	10	20	30	40
UniRef90_UPI00037DD740	V S R R H	M N V D I A A L R A I L E R D K K D I S V N E L L E T I E	V D R G I S V N E L L E T I E	K S A L L T A Y R R	
UniRef90_A0A059MSA7		M N V D I A A L R A I L E R D K K D I S V N E L L E T I E	V D R G I S V N E L L E T I E	K S A L L T A Y R R	
UniRef90_C8XJB6		M N V D I A A L R A I L E R D K K D I S V N E L L E T I E	V D R G I S V N E L L E T I E	K S A L L T A Y R R	
UniRef90_UPI000374FE8F		M N I D I A A L R A I L E R E K K G I S F D T L V I Q E A I E	V D T L V I Q E A I E	K S A L L T A Y K Q	
UniRef90_A0LV29		M N I D I A A L R A I L E R E K K G I S F D T L V I Q E A I E	V D T L V I Q E A I E	K S A L L T A Y R R	
UniRef90_H6RUVV3		M N I D V T A L K R A V L E R E R E K K G I S E E T I L L Q E A I E	V D T T V I L Q E A I E	K S A L L T A Y R R	
UniRef90_UPI00036A4DD9		M N I D L A A L R A L L A R D K E I S E E T I L L Q E A I E	V D T T V I L Q E A I E	K S A L L T A Y R R	
UniRef90_UPI0003828CD3		M K I D M S A L R G L I E R E R E K K I K F D D T L L V E A I E	V D T L L V E A I E	K S A L L T A Y H	
UniRef90_F8B3B7		M K I D V A A L R G I L E R E R E K K I K F D D T L L V E A I E	V D T L L V E A I E	K S A L L T A Y R R	
UniRef90_K6PY52		M N A E I E A L E D L L E R E R Q K K G I D K D T L L L E A I E	V D T L L L E A I E	K S A A L V T A F R R	
UniRef90_D5WVPJ1		M N Q D I E A L D Q M L E R E R E K K G I S K D T V L I E T I E	V D T V L I E T I E	K S A A L I T S G Y K	
UniRef90_G7GU23		M H I D I S A L R M Q I L E R E A D K K G I P I D T V L I E T I E	V D T V L I E T I E	K S A A L I T S A Y K	
UniRef90_C9R8X9		M N A E L Q A L R D L I E R E R R G L K T E V L L S V I E E A A L L T S A Y R R	V D V L L S V I E E A A L L T S A Y R R	K S A A L L T S A Y R R	
UniRef90_UPI000368FF60		M K V D L M T A L R A I L E R E R D K K G I A S F E T V L L E A A I E	V D T V L L E A A I E	K S A A L L T S A Y K	
UniRef90_B0THR0		M N V E L T A L R K D L E R E R E K K G I S S K E L L L E A A I E	V D T L L E A A I E	K S A A L L T S A Y K	
UniRef90_D6Z8N0		M H I D V Q T L R A I L E A E K K G L A I D V L L V P A I E E Q A A L L V A Y H	V D V L L V P A I E E Q A A L L V A Y H	K S A A L L V A Y H	
UniRef90_D5XF10		M N T E I E A L E E L E R E R E R D V A I D V L L V P A I E E Q A A L L V A Y H	V D V L L V P A I E E Q A A L L V A Y H	K S A A L L V A Y H	
UniRef90_K6W6B3		M D I D M S A L R L L E R E K E R E I P L D K L V P T I E E Q A A L L V A Y H	V D K L V P T I E E Q A A L L V A Y H	K S A A L L V A Y H	
UniRef90_UPI000255DD96		M D I D M S A L R L L E R E K E R E I P L D K L V P T I E E Q A A L L V A Y H	V D K L V P T I E E Q A A L L V A Y H	K S A A L L V A Y H	
UniRef90_U7JST3		M D I D L A A L R M I L E R E K E I S L D F L V K T A I E E D A A L L N A Y G	V D F L V K T A I E E D A A L L N A Y G	K S A A L L N A Y G	
UniRef90_L7ZQF5		M N T Q L E A L A D L M R E R E K K G I S K E V V M E A I E E Q A A L L V S A Y K	V D V V M E A I E E Q A A L L V S A Y K	K S A A L L V S A Y K	
UniRef90_C5BWS5		M D I D M S A L R A L E R E R E R E I S L D V L V G A I E E Q A A L L S A Y E	V D V L V G A I E E Q A A L L S A Y E	K S A A L L S A Y E	
UniRef90_I3VVD5		M N S E I E A L E Q I L E R E K K G I T K E T M F E A I E E Q A A L L V S A Y K	V D T M F E A I E E Q A A L L V S A Y K	K S A A L L V S A Y K	
UniRef90_D2Q1L4		M D I D M A V L R S L E R E R E K K D I A F E V V V I E A I E E Q A A L L V A Y H	V D V V V I E A I E E Q A A L L V A Y H	K S A A L L V A Y H	
UniRef90_W4V319		M S A D L H A L R E Q L E R E K E K G I D K D T L I I E A I E E A A L I S A Y K	V D T L I I E A I E E A A L I S A Y K	K S A A L I S A Y K	
UniRef90_R7XVB6		M D I D L S L L R M L E R E R E K K G I S F D V L V D A I E E Q A A L M L T S A Y H	V D V L V D A I E E Q A A L M L T S A Y H	K S A A L M L T S A Y H	
UniRef90_C8W4P7		M N T E L D L A L R E L E R E R E K K G I A V D V L V I D A I E E Q A A L L S A Y K	V D V L V I D A I E E Q A A L L S A Y K	K S A A L L S A Y K	
UniRef90_UPI000377BCE0		M D V D L S A L K A L L E R E R D K E I S M E V L L G A I E S D A A L L N A Y E	V D V L L G A I E S D A A L L N A Y E	K S A A L L N A Y E	
UniRef90_F0SU93		M N L E I E A V G E L E R E K E K K G I S S E K L F F Q A I E E S A A L L V S A Y K	V D K L F F Q A I E E S A A L L V S A Y K	K S A A L L V S A Y K	
UniRef90_G8U0U3		M N N E M D A L A E L E R E R E K K G V D K D Y I F T A I E E S A A L V S A Y K	V D Y I F T A I E E S A A L V S A Y K	K S A A L V S A Y K	
UniRef90_I7J574		I E A L N E I A K E K K G I D K D Y I F T A I E E S A A L V S A Y K	V I F T A I E E S A A L V S A Y K	K S A A L V S A Y K	
UniRef90_C7MBA5		M D I D M G A L R A L L E R E R D I R L P V L L D A I E R S Q A L H A A Y L	V D V L L D A I E R S Q A L H A A Y L	K S A A L H A A Y L	
UniRef90_M2XVG6		M D I D I S A L R M L E R E R S D I P L D L L I P T I E R S Q A L V L A Y Q	V D L L I P T I E R S Q A L V L A Y Q	K S A A L V L A Y Q	
UniRef90_U7VAF8	N N	M T I D L S V L S T L L E K E R G I A L L E E L F A L V E E N A L L L A Y M	V D L S V L S T L L E K E R G I A L L E E L F A L V E E N A L L L A Y M	K S A A L L L A Y M	
UniRef90_A0A010NSB3		M D I D M S A L R M L S K R E R I P L L Q R L T P A I E E Q A A L L V L A Y H	V D M S A L R M L S K R E R I P L L Q R L T P A I E E Q A A L L V L A Y H	K S A A L L V L A Y H	
UniRef90_I0GRD9	A K D N	Q E F L E T L R E L S K D R G I D E E I L F D A I E E Q A L I T A Y K	V D F L F D A I E E Q A L I T A Y K	K S A A L I T A Y K	
UniRef90_U4Q8N7	S K M N	I E I E A L A Q I S K K D I L L D A L E E A S L I T A Y K	V I E I E A L A Q I S K K D I L L D A L E E A S L I T A Y K	K S A A L I T A Y K	
UniRef90_A0A023CUF2	M S K E	L L N A L D A L E K E K K G I K K Q V V L D A L E E A S L I T A Y K	V L D A L E K E K K G I K K Q V V L D A L E E A S L I T A Y K	K S A A L I T A Y K	
UniRef90_UPI0003B42E0A		M D I D M T A L R L L E R E R E R E I P M D I I V Q A I E E Q A A L L S A Y Q	V D I I V Q A I E E Q A A L L S A Y Q	K S A A L L S A Y Q	
UniRef90_F6CNP1		M N T E I L A V K E L E K E K G I S A E L L F E A L E E A A L L S A Y R	V D L A V K E L E K E K G I S A E L L F E A L E E A A L L S A Y R	K S A A L L S A Y R	
UniRef90_A0A022LIQ8		M N I D M A A L R N M L S Q E R E I P L D D L V L R T A I E E N A L L T A Y K	V D M A A L R N M L S Q E R E I P L D D L V L R T A I E E N A L L T A Y K	K S A A L L T A Y K	
UniRef90_UPI000371F620		M N N D M D A L T S L S E T D R K G I D K E L V L L E A I E E A A L L S A Y K	V D M D A L T S L S E T D R K G I D K E L V L L E A I E E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_D9S3L9		M N I E I E A L D Q I E K E K K G I S K E I L L E A I E E A A L L S A Y K	V D I E I E A L D Q I E K E K K G I S K E I L L E A I E E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_UPI0004716D9F		M N A E L E A I E Q I G K E K K G I D A D A V L F E A M N Q A I V Q K A G R	V D A A V L F E A M N Q A I V Q K A G R	K S A A I V Q K A G R	
UniRef90_V6F5T0		L Q V A D A V A R D K K G I D R D E V L F E A M N Q A I V Q K A G R	V D V A D A V A R D K K G I D R D E V L F E A M N Q A I V Q K A G R	K S A A I V Q K A G R	
UniRef90_UPI0003695DCF		M D I D M A A L R L L E R E R E R E I P M D V I I P A I E E Q A A L L T A Y H	V D M A A L R L L E R E R E R E I P M D V I I P A I E E Q A A L L T A Y H	K S A A L L T A Y H	
UniRef90_H5UUA7		M D I D M A A L R L L E R E R E R E I P M E V I I P A I E E Q A A L L L A Y Q	V D M A A L R L L E R E R E R E I P M E V I I P A I E E Q A A L L L A Y Q	K S A A L L L A Y Q	
UniRef90_UPI0004052F81	M S S E	L L D A L T L L L E K E K K G I S K E V I I P A I E E A A L L S A Y K	V D A L T L L L E K E K K G I S K E V I I P A I E E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_J4UZ33		L Q T L K E L A Y E K K G I D E E L L F E T I E E A A L I T A Y R	V D T L K E L A Y E K K G I D E E L L F E T I E E A A L I T A Y R	K S A A L I T A Y R	
UniRef90_D2RKW7	M N A D	F K A I A L L A K E K S I P D V L Y S A V E E A A L I T A Y K	V D K A I A L L A K E K S I P D V L Y S A V E E A A L I T A Y K	K S A A L I T A Y K	
UniRef90_S0FPD6	M S A E	L L A L E Q L E K E K K G I K K D V I I T E A I E E A A L I T A Y K	V D L A L E Q L E K E K K G I K K D V I I T E A I E E A A L I T A Y K	K S A A L I T A Y K	
UniRef90_D2AXS9		M S V L R S L E R E R E K D I S F D L V V K A I E E D A L L I A Y F	V D V L R S L E R E R E K D I S F D L V V K A I E E D A L L I A Y F	K S A A L L I A Y F	
UniRef90_G0VQ93		M N K E L L A I A Y L A K E K K G V S P D V I C D S L E A A V L I T A Y K	V D K E L L A I A Y L A K E K K G V S P D V I C D S L E A A V L I T A Y K	K S A A V L I T A Y K	
UniRef90_E3B9A6		M D I D M A A L R A L E R E R E R E I P M D V I V P A I E E Q A A L L A Y Q	V D M A A L R A L E R E R E R E I P M D V I V P A I E E Q A A L L A Y Q	K S A A L L A Y Q	
UniRef90_F3PC87		M D I N M P E L R G A A D E L G I D L D N L L P A I E E D A I L L G A Y S	V D N M P E L R G A A D E L G I D L D N L L P A I E E D A I L L G A Y S	K S A A I L L G A Y S	
UniRef90_UPI00037D31EC		M N A E M Q A F E Q L G K E K G I A P E V L F D A I E E A A L L S A Y K	V D M Q A F E Q L G K E K G I A P E V L F D A I E E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_U2Q8U5		M D V D M T A L R A I L E R E R E K K G I S F D Y L V R A I E E A A L Y N A Y T	V D V D M T A L R A I L E R E R E K K G I S F D Y L V R A I E E A A L Y N A Y T	K S A A L Y N A Y T	
UniRef90_W1U1J5		M N Q E L Q A V Q F L K T E K G L T A D V I F E S L E A V L L S A Y K	V D Q E L Q A V Q F L K T E K G L T A D V I F E S L E A V L L S A Y K	K S A A V L L S A Y K	
UniRef90_K4LHC9		M N L E I N A L K D I E K E K K G I S S E V L L Q A I E H A L L T A Y R	V D L E I N A L K D I E K E K K G I S S E V L L Q A I E H A L L T A Y R	K S A A L L T A Y R	
UniRef90_C0GIV5		M N E E L A A M D A I E K E K K G V K K E V L F E A I E E A A L L S A Y K	V D E E L A A M D A I E K E K K G V K K E V L F E A I E E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_R6HMK2		M N A D I M A V Q E L G K E K K G I E P S I L F E A V E E A A L V T A Y K	V D A D I M A V Q E L G K E K K G I E P S I L F E A V E E A A L V T A Y K	K S A A L V T A Y K	
UniRef90_W7AU15		M S T E L D A L H V L E H D K K G I S R D V I V I E A I E E A A L V S A Y K	V D T E L D A L H V L E H D K K G I S R D V I V I E A I E E A A L V S A Y K	K S A A L V S A Y K	
UniRef90_UPI00046AD18D		M N I D M E A L T A V L E K E K K G I S K E V L I E A I E E A A L I S G Y K	V D M E A L T A V L E K E K K G I S K E V L I E A I E E A A L I S G Y K	K S A A L I S G Y K	
UniRef90_UPI0002E48E96		M S K E L G A L D A L E Q E K K G I K K Q V V I E A L E E A A L V S A Y K	V D M A L D A L E Q E K K G I K K Q V V I E A L E E A A L V S A Y K	K S A A L V S A Y K	
UniRef90_S2RLW7		M S K E M Q A L D A L E Q E K K G V K K E V V I E A L E E A A L V S A Y K	V D M Q A L D A L E Q E K K G V K K E V V I E A L E E A A L V S A Y K	K S A A L V S A Y K	
UniRef90_S3WNJ4		M E I D L S P L R L I E R E R K G I P F D Y L K A L Q D A L L N A Y L	V D L S P L R L I E R E R K G I P F D Y L K A L Q D A L L N A Y L	K S A A L L N A Y L	
UniRef90_A7HZ91		L Q I A D A V A R E K S L D R E V V I E A M A E A I Q K A A R	V D I A D A V A R E K S L D R E V V I E A M A E A I Q K A A R	K S A A I Q K A A R	
UniRef90_D0YT95		M Q I D M T A L R L V E A E K K G M D F E S L V A T V E E A A L L K A Y R	V D M T A L R L V E A E K K G M D F E S L V A T V E E A A L L K A Y R	K S A A L L K A Y R	
UniRef90_S2XLC5		N E L D A L I A L E K Q K G I S R D V L I E A I E E A A L V T A Y K	V D A L I A L E K Q K G I S R D V L I E A I E E A A L V T A Y K	K S A A L V T A Y K	
UniRef90_K2LWE3		L Q V A D A V A R E K K G I D R D E V L L G A M E Q A I Q K A G R	V D V A D A V A R E K K G I D R D E V L L G A M E Q A I Q K A G R	K S A A I Q K A G R	
UniRef90_UPI0004654DB7		M S K E L L A L D V L E T E K K G I K K E V V I E A L E E A A L V S A Y K	V D M A L D V L E T E K K G I K K E V V I E A L E E A A L V S A Y K	K S A A L V S A Y K	
UniRef90_UPI000424D769		M D I D P A A T L R A L E A E R G I S M D V L V P A I E E K A L L S A Y E	V D I D P A A T L R A L E A E R G I S M D V L V P A I E E K A L L S A Y E	K S A A L L S A Y E	
UniRef90_E2SD81		M S S E L L A L E I I E R E K K G I S K D V V I E A I E E A A L I S A Y K	V D M S S E L L A L E I I E R E K K G I S K D V V I E A I E E A A L I S A Y K	K S A A L I S A Y K	
UniRef90_UPI000424D769		M D I D M N A L R A L E R E R K D L S F D V V V E A I E E Q A A L L S A Y H	V D M N A L R A L E R E R K D L S F D V V V E A I E E Q A A L L S A Y H	K S A A L L S A Y H	
UniRef90_D5UD69		M D I D M Q A L R L I E R E R E R E I S L D V L V E A I E E Q A L L S A Y H	V D M Q A L R L I E R E R E R E I S L D V L V E A I E E Q A L L S A Y H	K S A A L L S A Y H	
UniRef90_R6E2G8		M N K E I R A I E D L E K E K H I S K E I L L E A I E E S A A L V S A Y K	V D R A I E D L E K E K H I S K E I L L E A I E E S A A L V S A Y K	K S A A L V S A Y K	
UniRef90_A8MHI1		M N A E F E A L E Q I A R E K K G I S K D I L I D A V E A A L V S S Y K	V D A E F E A L E Q I A R E K K G I S K D I L I D A V E A A L V S S Y K	K S A A L V S S Y K	
UniRef90_V4RRW2		L Q I A D A V A R E K K V I D R Q I V I E A M E D A I Q K A A R	V D I A D A V A R E K K V I D R Q I V I E A M E D A I Q K A A R	K S A A I Q K A A R	
UniRef90_E31L8		L Q I A D A V A R E K S I D R T L V L S A M E D A I Q K A A K	V D I A D A V A R E K S I D R T L V L S A M E D A I Q K A A K	K S A A I Q K A A K	
UniRef90_UPI00045E647A		M D I D M T A L R L V E H E R D I S I D T L V L S A I E E Q A L L S A Y H	V D M T A L R L V E H E R D I S I D T L V L S A I E E Q A L L S A Y H	K S A A L L S A Y H	
UniRef90_K2J5L7		L Q V A D I V A R E K N I D R E V L I L A M E M A I Q K A G R	V D V A D I V A R E K N I D R E V L I L A M E M A I Q K A G R	K S A A I Q K A G R	
UniRef90_C7R3D8	M H I	D M A A L R M L E R E R E I S L D V L L E A I E E Q A L L A L A Y Q	V D M A A L R M L E R E R E I S L D V L L E A I E E Q A L L A L A Y Q	K S A A L L A L A Y Q	
UniRef90_U2G8P9		M N I D L N A L R S I E T E K K G I P F F E L L E T I E A R A L L G A Y R	V D I D L N A L R S I E T E K K G I P F F E L L E T I E A R A L L G A Y R	K S A A L L G A Y R	
UniRef90_UPI0003777683		L Q I A E A V A R E K K V I D R S I V I D A M E Q A I A K A A R	V D I A E A V A R E K K V I D R S I V I D A M E Q A I A K A A R	K S A A I A K A A R	
UniRef90_UPI00041F1371		L H V A D V V A R E K S I D R D E V L T A M E Q A I Q K A G R	V D H V A D V V A R E K S I D R D E V L T A M E Q A I Q K A G R	K S A A I Q K A G R	
UniRef90_W0CJX9	M S T E	L D A L L V L E S E K K G I S K D I L I D A I E A A L L S A Y K	V D A L L V L E S E K K G I S K D I L I D A I E A A L L S A Y K	K S A A L L S A Y K	
UniRef90_C4LJ84		M N I D L S T L R A I E R E R G V S V E D M T A T I A K A L L E A W E	V D I D L S T L R A I E R E R G V S V E D M T A T I A K A L L E A W E	K S A A L L E A W E	
UniRef90_R5QIV4		L Q V A D A V A R D K K G I E K D E V L T A M E F A I Q K A G R	V D V A D A V A R D K K G I E K D E V L T A M E F A I Q K A G R	K S A A I Q K A G R	
UniRef90_K2EGX8		L L V A E T V A R E K S I E K D Q V L E A M E Q A I Q K A G R	V D L V A E T V A R E K S I E K D Q V L E A M E Q A I Q K A G R	K S A A I Q K A G R	
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R N F N S A A A N V D I V N R R K S G D V R V R V F A R K E T V V E E T D L V E I E V T
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90 100 110 120

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UniRef90_D5UD69 K V Y I M D V A R K S N K G G P P Q Q I F L L S
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UniRef90_A8MHI1 R A Y V Y D V R S E Q R G G P P Q Q I F L L S
UniRef90_V4RRW2 R A Y V Y D V R R E N R G G P P Q Q I F L L S
UniRef90_E31L8 R A Y V L D V S R E G A K G G P P S S I T L L S
UniRef90_UPI00045E647A R A Y I Y D V R R E P R G G P P Q Q I F M L S
UniRef90_K2J5L7 R A Y V V E V A R K A K G G P S S I T L L S
UniRef90_C7R3D8 K A Y V V G V N R Q N T N Q V Q Q V N L S
UniRef90_U2G8P9 R S Y L F D V R R E V R G G P P Q Q I F L L S
UniRef90_UPI0003777683 R A Y I Y D V R E E P R G G P P Q Q I F L L S
UniRef90_UPI00041F1371 R V F I T K V E K T T K G G P P Q Q I Y V L S
UniRef90_W0CJX9 K F Y V V N K V N R G T P R G G P P Q Q I M I L S
UniRef90_C4LJ84 R A Y I M D V N R Q E P R G G P P Q Q I F L L S
UniRef90_R5QIV4 R A Y I S D V R T E A P R G G A Q Q I F L L S
UniRef90_K2EGX8 K A Y I Y E V K R S A K G G P P Q Q I F L L S
UniRef90_D7CM44 K T F V V G V T R N N R N L Q Q I N L S
UniRef90_W5Y1G4

QUERY	R	N	V	M	S	E	L	S	G	G	E	K	I	D	I	I	D	Y	D	D	260	P	A	R	F	V	A	N	A	L	L	270	P	A	K	V	V	S	V	S	V	I	L	280	
UniRef90_UPI00037DD740	R	N	V	M	S	E	L	S	G	G	E	K	I	D	I	I	D	Y	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L			
UniRef90_AOA059MSA7	R	N	V	M	S	E	L	A	G	D	E	K	I	D	I	I	D	Y	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L			
UniRef90_C8XJB6	R	R	A	V	M	S	E	L	A	G	D	E	K	I	D	I	I	D	Y	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_UPI000374FE8F	R	R	A	V	M	S	E	L	S	G	G	E	K	I	D	I	I	D	Y	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_A0LV29	R	R	A	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	Y	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_H6RVV3	R	R	N	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI00036A4DD9	R	R	A	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI0003828CD3	R	R	A	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_F8B3B7	R	R	A	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_K6PY52	Q	A	V	V	A	E	L	R	G	G	E	K	I	D	I	I	V	R	W	A	E	D	P	E	E	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_D5WJP1	Q	H	V	V	A	E	L	H	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	E	E	F	V	K	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_G7GU23	R	R	N	V	M	S	E	L	H	G	G	E	K	I	D	I	I	D	F	D	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_C9R8X9	Q	A	V	V	N	E	L	R	G	G	E	K	I	D	I	I	V	R	W	D	P	D	P	S	R	F	V	A	E	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI000368FF60	R	Q	G	V	M	D	E	L	H	G	G	E	K	I	D	I	I	V	K	H	S	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_B0THR0	R	Q	A	V	V	N	E	L	H	G	G	E	K	I	D	I	I	V	K	W	N	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_D6Z8N0	R	R	N	V	M	S	E	L	A	G	G	E	K	I	D	I	I	D	F	D	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_D5XF10	Q	T	I	V	N	E	L	K	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_K6W6B3	R	R	A	V	M	S	E	L	R	G	G	E	K	I	D	I	I	V	D	Y	S	P	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_UPI000255DD96	R	R	A	V	M	S	E	L	N	D	E	K	I	D	I	I	V	D	Y	S	E	D	P	E	R	F	V	A	S	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_U7JST3	R	R	A	V	M	H	E	L	G	G	E	K	I	D	I	I	V	D	W	S	A	D	P	A	R	F	V	A	G	E	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_L7ZQF5	Q	A	I	V	D	E	L	N	G	G	E	K	I	D	I	I	V	R	W	S	A	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_C5BWS5	R	R	A	V	M	A	E	L	R	G	G	E	K	I	D	I	I	V	D	F	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_I3VWD5	Q	R	A	V	V	N	E	L	K	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	A	R	F	V	T	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_D2Q1L4	Q	R	A	I	V	D	E	L	H	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	A	R	F	V	T	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_W4V319	Q	A	I	V	D	E	L	R	G	G	E	K	I	D	I	I	V	K	W	S	E	N	P	E	E	F	V	S	S	S	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_R7XVB6	R	R	N	V	M	A	E	L	H	G	G	E	K	I	D	I	I	V	D	W	S	E	D	P	A	R	F	V	H	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_C8W4P7	R	R	N	V	M	A	E	L	H	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	A	R	F	V	A	S	S	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI000377BCE0	R	R	A	V	M	H	E	L	N	E	E	K	I	D	I	I	V	D	Y	S	D	S	A	E	E	F	V	A	Q	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_F0SU93	Q	Q	S	I	V	N	E	L	K	G	G	E	K	I	D	I	I	V	T	W	Q	D	P	V	E	F	V	A	S	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_G8U0U3	Q	N	S	I	V	N	E	L	R	G	G	E	K	I	D	I	I	V	A	W	D	P	A	V	L	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_I7J574	Q	N	V	V	N	E	L	N	G	G	E	K	I	D	I	I	V	K	W	S	K	D	P	A	E	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_C7MBA5	R	S	V	M	N	E	L	G	G	G	E	K	I	D	I	I	V	D	F	D	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_M2XVG6	R	R	A	V	M	N	E	L	G	G	G	E	K	I	D	I	I	V	D	W	S	G	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_U7VAF8	R	R	A	V	A	A	E	L	N	D	E	K	I	D	I	I	V	D	Y	S	S	D	P	A	E	F	V	A	A	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_AOA010NSB3	R	R	A	V	M	N	E	L	N	D	E	K	I	D	I	I	V	D	H	S	D	D	A	A	E	F	V	A	H	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_I0GRD9	Q	A	I	V	D	E	L	G	S	D	E	K	I	D	I	I	V	K	W	S	E	D	P	A	R	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_U4Q8N7	Q	S	I	V	D	E	L	N	G	G	E	K	I	D	I	I	V	K	W	D	K	D	V	A	E	F	V	S	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_AOA023CUF2	Q	R	A	V	V	N	E	L	K	G	G	E	K	I	D	I	I	V	E	W	R	D	P	A	E	F	V	A	S	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_UPI0003B42E0A	R	R	A	V	M	A	E	L	N	G	G	E	K	I	D	I	I	V	D	Y	S	D	D	P	A	R	F	V	A	S	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_F6CNP1	Q	A	I	V	N	E	L	N	G	G	E	K	I	D	I	I	V	K	W	N	P	D	P	S	K	F	V	A	A	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_AOA022LIQ8	R	R	A	V	M	A	E	L	N	G	G	E	K	I	D	I	I	V	D	F	D	E	P	T	V	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI000371F620	Q	T	I	V	D	E	L	K	G	G	E	K	I	D	I	I	V	H	Y	E	D	P	I	D	Y	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L		
UniRef90_D9S3L9	Q	A	V	V	E	E	L	K	G	G	E	K	I	D	I	I	V	K	W	S	K	N	V	T	E	F	V	S	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI0004716D9F	H	V	L	D	E	L	K	G	G	E	K	I	D	I	I	V	K	W	S	S	G	E	P	A	E	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_V6F5T0	Q	A	V	V	A	E	L	N	G	G	E	K	I	D	I	I	V	P	W	S	G	E	Y	A	T	F	V	V	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI0003695DCF	R	R	A	V	M	N	E	L	Q	G	G	E	K	I	D	I	I	V	D	Y	S	D	D	P	A	E	F	V	K	S	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L
UniRef90_H5UUA7	R	S	V	T	T	E	L	R	G	G	E	K	I	D	I	I	V	D	W	S	E	D	P	A	R	F	V	A	A	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_UPI0004052F81	Q	T	I	V	N	E	L	N	G	G	E	K	I	D	I	I	V	D	W	S	E	D	P	V	V	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_J4UZ33	Q	A	V	V	D	E	L	A	G	G	E	K	I	D	I	I	V	K	W	S	E	D	P	A	T	F	V	A	N	A	L	L	S	P	A	K	V	V	S	V	S	V	I	L	
UniRef90_D2R2KW7	R	T	A	I	V	D	E	L	R	G	G	E	K	I	D	I	I	V	K	Y	S	E	D	P	E	E	F	V	A	N	A	L	L	S	P	A	K	V	V	S					

QUERY	D	Q	T	A	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	G	W	R	I	D	I			
UniRef90_UPI00037DD740	D	P	R	T	K	T	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	G	W	R	I	D	I			
UniRef90_AA059MSA7	D	P	D	A	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_C8XJB6	D	P	V	A	K	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_UPI000374FE8F	D	A	H	A	K	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_A0LV29	D	P	V	T	K	S	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_H6RVV3	D	A	Q	A	K	A	V	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_UPI00036A4DD9	D	L	A	R	A	A	R	V	T	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_UPI0003828CD3	D	L	A	R	S	A	R	V	T	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_F8B3B7	D	P	A	V	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_K6PY52	P	E	T	R	V	A	R	V	I	V	V	P	D	H	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I		
UniRef90_D5WJP1	E	D	E	R	V	A	R	V	I	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I		
UniRef90_G7GU23	D	L	A	L	K	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_C9R8X9	E	E	E	K	I	A	R	V	I	V	V	P	D	N	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I		
UniRef90_UPI000368FF60	D	L	R	A	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_B0THR0	E	E	E	K	V	A	R	V	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I		
UniRef90_D6Z8N0	D	P	V	V	K	A	V	R	V	V	V	P	D	S	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_D5XF10	N	E	A	E	K	I	A	R	V	I	V	P	D	N	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I		
UniRef90_K6W6B3	D	A	A	T	R	T	A	R	V	I	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_UPI000255DD96	D	A	A	T	R	S	A	R	V	V	V	P	R	D	V	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
UniRef90_U7JST3	D	P	K	A	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I	
UniRef90_L7ZQF5	E	E	Q	K	A	T	T	V	I	V	V	P	D	F	Q	L	S	L	A	I	G	K	R	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	K	I	D	I	
UniRef90_C5BWS5	D	A	E	A	R	S	A	R	V	I	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
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UniRef90_D2Q1L4	D	A	A	A	R	A	A	R	V	V	V	P	D	F	Q	L	S	L	A	I	G	K	E	G	Q	N	A	R	L	A	A	R	L	T	T	G	W	R	I	D	I		
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UniRef90_D9I3B3			L A V A E A V	A R E K G I	E R D E V L Y A M E D A I Q K A A R
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UniRef90_A5GF84 K[A]L[V]T[E]I[R]M[A]E[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[E]G
UniRef90_L0GU93 R[G]Y[L]F[D]V[R]M[A]E[P]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_F3YB55 K[V]Y[V]S[K]V[E]N[T]S[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_A1B585 R[A]Y[V]K[D]V[R]R[E]A[T]170N[K]K[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_D8FCA2 R[A]Y[V]L[D]V[R]K[E]S[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[S]E[G]G
UniRef90_Q2J2K1 R[A]Y[V]F[D]V[R]R[E]T[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_UPI00036BBD60 K[A]F[V]V[G]V[N]R[N]P[K]A[V]Q[V]N[L]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]V[D]D[G]G
UniRef90_UPI000363AE42 K[A]Y[V]V[G]V[N]R[G]E[R]A[V]Q[V]N[L]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]V[A]D[G]G
UniRef90_UPI0003764B43 R[A]L[V]Y[D]V[R]R[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_T3HU44 K[F]Y[V]L[E]V[V]K[T]N[S]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_G4L7U0 K[V]Y[V]T[R]E[V]E[N]T[S]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_D4LTW9 K[V]Y[V]L[E]V[V]K[D]T[P]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]K[D]D[G]G
UniRef90_UPI00038257ED K[A]Y[V]V[G]V[V]Q[R]G[D]P[R]S[V]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_D7WF52 K[C]Y[V]V[G]V[S]G[G]D[R]R[T]T[V]S[N]L[V]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_M1Z640 K[L]I[L]L[E]V[V]K[K]T[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]N[E]G
UniRef90_UPI00036C021E K[T]Y[V]L[E]V[V]K[K]T[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]K[E]G
UniRef90_G4RA60 R[A]Y[V]Y[D]V[R]R[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_W2BXE2 K[V]Y[V]M[D]V[V]K[K]T[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Q[D]D[G]G
UniRef90_UPI0003615F41 K[V]Y[V]L[E]V[V]K[K]N[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]F[Q]G
UniRef90_UPI000469DCE8 R[V]Y[V]T[K]V[E]N[T]S[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_L0K800 K[V]Y[V]V[E]V[E]Q[T]T[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Q[D]D[G]G
UniRef90_UPI000363852F K[A]F[V]V[G]V[N]K[G]D[R]A[V]Q[V]N[L]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_R9KIL8 K[L]Y[V]L[E]V[V]K[S]T[S]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]V[K]E[G]G
UniRef90_UPI0003A75CCA R[A]Y[V]Y[D]V[R]R[E]T[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[E]G
UniRef90_K7YLB5 R[A]Y[V]E[N]V[R]E[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_M4ZZE3 K[A]Y[V]V[E]V[R]R[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_L0ESW8 R[S]Y[V]H[D]V[R]R[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_C8NEV2 K[V]L[V]S[K]V[D]N[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_A3PNL0 R[A]Y[V]K[D]V[R]R[E]A[T]170N[K]K[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_B8GP01 R[G]Y[L]K[E]V[R]S[E]P[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]G[G]G
UniRef90_E1QFC3 R[A]Y[V]L[D]V[K]R[V]S[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[E]G
UniRef90_UPI00021929C0 K[S]Y[V]T[G]V[T]K[T]P[S]V[Q]I[N]L[V]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_N2ALH8 K[L]Y[V]V[E]V[V]K[N]T[P]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]V[A]D[G]G
UniRef90_D9I3B3 R[A]Y[V]S[D]V[R]P[D]A[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_E0TEQ1 R[A]Y[V]A[D]V[R]R[E]P[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_F4X9L1 K[V]Y[V]M[V]E[V]R[K]A[T]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]Y[D]D[G]G
UniRef90_A1AML9 R[A]L[V]T[D]I[R]V[T]P[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[R]D[G]G
UniRef90_D4J330 K[V]Y[V]V[E]V[V]K[T]S[N]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[R]D[G]G
UniRef90_R5JW52 K[L]Y[V]T[E]V[V]R[K]S[S]R[G]P[K]I[S]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_B8FCY4 R[A]F[V]L[D]V[V]L[E]G[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[G]E[G]G
UniRef90_R5EJ46 K[L]Y[V]V[E]V[V]K[K]T[S]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_A3TRX8 R[V]Y[V]V[S]V[K]R[G]L[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_U2WT21 R[A]Y[V]I[Q]D]V[K]R[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[S]D[G]G
UniRef90_U1MSW6 R[V]F[V]T[K]V[E]R[E]Q[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[S]G
UniRef90_R5REP9 K[L]Y[V]L[E]V[V]K[E]T[P]K[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]K[D]D[G]G
UniRef90_A4G7S8 R[A]Y[V]L[R]I[D]R[N]A[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]E[Q]G
UniRef90_H0EA15 K[A]V[I]K[E]V[S]Q[S]A[K]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]A[D]D[G]G
UniRef90_G8QPW3 K[A]F[L]L[R]I[D]R[N]A[R]G[G]P[Q]Q[I]F[V]V[S]S[R]S[H]P[G]L[L]K[R]R[L]L[F]E[E]E[V]V[P]E[E]E[I]E[D]G

UniRef90_UPI0002D9EFD6	L	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_W7CNL1	T	V	E	I	V	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_G9ZSK8	T	V	E	I	V	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_D0WR23	T	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI000371D5BF	T	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_V8A4E0	L	V	E	I	K	A	G	S	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_R6PIY3	T	V	E	I	K	A	G	S	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_A0A031FQ63	V	V	E	I	L	S	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V		
UniRef90_B2IJ9	V	V	E	I	K	A	G	S	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_U2WJ36	V	V	E	I	K	A	G	S	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_E6YG54	I	I	E	I	K	S	V	A	R	D	P	G	S	R	R	A	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI00035DEDE6	L	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_C5C9S9	S	V	E	I	T	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_X5E967	S	V	E	I	T	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI00047C0CBF	L	V	E	I	Y	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_L1MH09	A	V	E	I	V	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_S2Z6M4	D	V	E	I	V	G	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI0003604450	V	I	E	I	R	A	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_F2F2T0	U	N	I	E	R	A	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_W4F1E7	T	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_W6N4V6	L	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI00039B2093	L	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI00041FA99D	T	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_G2LFH9	T	V	E	I	K	A	A	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_B0PH18	T	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_D1BM57	V	V	E	I	K	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI0003B4764F	A	V	E	I	V	S	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_S2WG86	T	V	E	I	V	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_F9MTD3	V	V	E	I	Y	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_R4YZJ4	I	V	E	I	K	A	C	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_H3NKI4	L	V	E	I	K	A	A	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_K1DVC2	S	V	E	I	A	A	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_E4RKT8	L	V	E	I	K	A	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI000262A292	L	V	E	I	V	S	L	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_N1ZM86	T	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_F2I505	T	V	E	I	R	S	V	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_F4BQQ3	V	V	E	I	V	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_K9EYK0	T	V	E	I	V	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_U3GXN7	A	V	E	I	V	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_R5TQ74	L	V	E	I	K	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_C7LXY2	L	V	E	I	V	K	A	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V
UniRef90_C3PH21	A	V	E	I	I	A	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI00024926EB	T	V	E	I	V	S	I	A	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_UPI000373A998	V	V	E	I	K	S	V	S	R	E	E	A	G	D	R	R	K	I	S	V	Y	A	Q	D	P	D	I	D	P	V	G	S	C	V	G	T	K	K	G	Q	R	V	
UniRef90_A5GF84	I	V	E	I	K	S	V	A	R																																		

UniRef90_UPI0002D9EFD6 Q T V V D E E L K G G E K I D I V E Y S E D P I V Y V S N A L L S P S K V T K V I V
UniRef90_W7CNL1 Q T A I V D E E L K G G E K I D I V E W S E D D P V E F Y V S N A L L S P S A Q V V K V V T V F D
UniRef90_G9ZSK8 Q T A I V N E E L H G G E K I M D I V E Y W D D D D P A H Y V A N A L L S N P A E K V I V D V V T V F D
UniRef90_D0WR23 R T A V T T E E L H G G E K I M D I V E D Y D D D D P K A F I A N A S L S P S A K V V E V V D I V L L
UniRef90_UPI000371D5BF Q T A I V N E E L K G G E K I D I V R W S D S D V E E F Y V A N A L L S P S A K V V L E V V T V F
UniRef90_V8A4E0 Q D A I V A E E L K G G E K I D I I P W S E P D Q A A T F F I V A N A L L A P P A E N V T K A V E I M D
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UniRef90_A0A031FQ63 R A V T E E E L G G G E K I D I V D Y D E T L P K F F I A N A L L S P S A K V V T S S F V L
UniRef90_B2IJ9 Q A V V N E E L Q G G E K I D I V P W S E P D A A T F I V A N A L L S P P A E V V S K V V V L
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UniRef90_E6YG54 Q A V V A E E L Q G G E K I D I I P W S E P D A A T F I V A N A L L S P P A E V V S K V V V L
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UniRef90_C5C9S9 R A V M T E E L N D E E K I D I I D H V D P A A M I V A N A L L S P P A T T V V S V E I V L
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UniRef90_UPI0003604450 Q A V V Q E E L G G G E K I D I I P W S E D D P V T F I V A N A L L Q P P A E V A K V V L
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UniRef90_G2LFH9 Q A V I R E E L R G G E K I D I V P Y S A D P P V F A A N A L L S P A K V I S R V V Q I T
UniRef90_B0PH18 S A I V D E E L H D E K I D I V K W D E D P A I Y I A N A S L S P A K V V S V D V V S
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UniRef90_UPI0003B4764F R A V T T E E L N S G E K I D I V D Y S D D D P L S T F I A S A L S P A K V T R A F V I
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UniRef90_N1ZM86 N I V I N E E L H G G E K I D I V I N W S E D P K E F I A A L S P S A K V V A V A I F V
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UniRef90_L0GU93 Q N A V S N E L N G G E R V D I I P W D E N P A Q F V I N A M S P A D V V S I V I
UniRef90_F3YB55 Q A I V N E E L K G G E N M D I V E W N E D P V V Y I S N A L L N P A Q V V D V I F D
UniRef90_A1B585 Q A V V N E E L Q G G E K I D I V P W S D D D Q A T F L V N A L L Q P P A E V A K V V V F
UniRef90_D8FCA2 Q A V V Q E E L R G G E K I D I V T W D P D S A K F I C A N A L L A P A E I T R V V I V
UniRef90_Q2J2K1 Q A V V N E E L Q G G E K I D I V P W S P D I A T F V V A N A L L A P A E V S K V V I D
UniRef90_UPI00036BBD60 N N V M E A L G G G E K I D I V D F D E D P A V Y V G N A L L A P A R A V R V D I V I
UniRef90_UPI000363AE42 T N I M K A L G G G E K I D I I D Y S E D P A V F V G N A L L A P S A K V V R V E V I
UniRef90_UPI0003764B43 Q A V V A E L Q G G E K I D I I P W Q P D A A S F I V A N A L L Q P P A E V A K V V L
UniRef90_T3HU44 K N I V D E L G D E K I D I I K Y S E D P A E F I S A A L S P S K V V S V D I
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UniRef90_D4LTW9 N S I V E E L R G G E K I D I I N W D E N P A I L I E N A L L S P A K V I A V I M A
UniRef90_UPI00038257ED R N I M E S L N G G E K I D I V D F N E D P A V Y V G N A L L A P S A K V V R V D V V
UniRef90_D7WF52 T N I M E S L G G G E K I D I V D Y S D D P A V Y V G N S L A P S K V V R V D V V
UniRef90_M1Z640 K A I V E E L N G G E K I D I I T W S K N I D E F I A N S L S P S K V I K V E I
UniRef90_UPI00036C021E Q T A I V N E E L R G G E K I D I V K Y D Q D P K I Y I S N A L L S P A K V L V D V
UniRef90_G4RA60 Q A V V G E L R G G E K I D I I P W T N N I A D L V V I S A L Q P A D V A K V V L
UniRef90_W2BXE2 Q N I V D E L N G G E K I D I I S W S E D P V I E L I S N V L S P A T V E E V I V E
UniRef90_UPI0003615F41 K Y V V D E L G G G E K I D I I N Y S E N D P A E F V C A S L S P S K V V K V V E V
UniRef90_UPI000469DCE8 Q A V V D E L N G G E N I D V I P Y V D P I D F I A N A L L S N P A E V I A V Q F D
UniRef90_L0K800 R V V N E E L N N E K I D I V E W S D D I K E Y V S N A L L S P A E V I K V A A
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UniRef90_R9KIL8 N A I V N E E L R G G E K I D I I N W S D N A A M L I E N A L L S P A K V I S V I A
UniRef90_UPI0003A75CCA Q A V V N E E L A G G E K I D I I P W S P D A A T F I V A N A L L Q P P A E V A K V V L D
UniRef90_K7YLB5 Q A V V G E L H G G E K I D I I P F S E D P A T F V V A N A L L S P A E V S K V V I L L
UniRef90_M4ZZE3 R M V V N E M R G G E K I D I V P F S E D I N D F V A K A L S P A K V T Q V I S
UniRef90_L0ESW8 Q A V V G E L Q G G E R L D I V P W S P D P A T F V V A N A L L Q P A T V T K I V L
UniRef90_C8NEV2 H A I V E E L N G G E K I D I V E W N E D P A I Y I K N A L L N P A Q V L K V E F
UniRef90_A3PNL0 Q A V V N E E L Q G G E K I D I I P W N Q D Q A T F L V N A L L Q P P A E V S K V V I D
UniRef90_B8GP01 Q S V S N E E L A G G E R V D I I L W D D N P A Q F V I N A M S P A E V S I V M
UniRef90_E1QFC3 Q A V V Q E L R G G E K I D I I A Y D S D P A R Y V V N A L L A P A E I S R V V V
UniRef90_UPI00021929C0 N S I M E E L G G G E K I D I I D Y A D A P P E R Y V G N A L L A P A K V I S V V V T
UniRef90_N2ALH8 N A V V S E L R G G E K I D I I N W S D N P A L L I E N A L L S P A K V I S V V V M A
UniRef90_D9I3B3 Q A V V T E L Q G G E K I D I V P W S S N P A T F V V A N A L L A P A E V I K V V L D
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UniRef90_F4X9L1 N T I V E E L K G G E K M D I I K Y S D D P A E Y I A A L S P A D V V S V E P L
UniRef90_A1AML9 Q N I V N E E L R G G E K I D I I P W S E D I A R F A C A N A L L S P A Q V V S K V V F V I A
UniRef90_D4J330 N A I V N E E L R G G E K I D I V E W D E N P A Y L I E N A L L S P A K V I S V I A
UniRef90_R5JW52 N N V V E D L N G G E K I D I I C W D E N P A I F I K N A L L S P S E V I S V D V I A
UniRef90_B8FCY4 Q N I V H E L R G G E K I D I V P W H A D S A K F V C A N A L L A P A Q I S R V I V
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UniRef90_A3TRX8 R A V M A E L H G G E K I D I V D F S E D P A S F I A S A L S P S R V Q V V E I V
UniRef90_U2WT21 Q A V V N E L Q G G E K I D I V P Y S E D A A A F I V N G L G P P A E V A K V V L
UniRef90_U1MSW6 R A V Q A E L G D E K I D I V D Y S D D L P A F V A S A L S P A R V S D A F M L
UniRef90_R5REP9 N A I V A E L R G G E K I D I I N W D E N P A L L I E N A L L S P A K V I S V V M A
UniRef90_A4G7S8 Q A V T G E L G G G E R V D I I L W S E D P A Q F V I G A L S P A N V S S V V I D
UniRef90_H0EA15 R M V V S E L K G G E K I D I I P F N D E P P G R F I A K A L S P A Q V R E V I D
UniRef90_G8QPW3 T A V T N E L A G G E R V D I V H W S Q D P A Q F V I G A L A P A E V S S I V V

	290	300	310	320
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UniRef90_W7CNL1	D P T N Q S T T V V V	P D D Y Q Q L S L A	A A K L L T G W K I	D I D I D I D I
UniRef90_G9ZSK8	E D N D R A Q V V V	P D D G Q Q L S L A	A A K L L T G F K I	D I D I D I D I
UniRef90_D0WR23	D K A E R Q A R V I V	P D D G Q Q L S L A	A A K L L T G W K I	D I D I D I D I
UniRef90_UPI000371D5BF	E A E E K M A R V I V	P D D Y Q Q L S L A	A A K L L T G W K I	D I D I D I D I
UniRef90_V8A4E0	E E A E G R V E V V V	P D N E Q Q L S L A	A A S Q L L T R W W	D I D I D I D I
UniRef90_R6PIY3	N E A D E K S A K V V V	P D N E Q Q L S L A	A A S R L L T T G W D	D I D I D I D I
UniRef90_A0A031FQ63	D Q A T K A V R A L V	P D D Y Q Q L S L A	A A K L L T G A K I	D I D I D I D I
UniRef90_B2IJ9	D E E D S A R I E V V V	P D D D Q Q L S L A	A A S Q L L T T G W D	D I D I D I D I
UniRef90_U2WJ36	N E E E R V I S R V V V	P D D Y Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_E6YG54	D E D A E R I E V V V	P D D D Q Q L S L A	A A S Q L L T T G W N	D I D I D I D I
UniRef90_UPI00035DEDE6	E E R S R V E V V V V	P D D Y Q Q L S L A	A A S Q L L T T G W T	D I D I D I D I
UniRef90_C5C9S9	D A D Q H S A R A V V	P Q Q Y Q Q L S L A	A A K L L T T G W R	D I D I D I D I
UniRef90_X5E967	D H D M Q V A R A V V	P D H Q Q L S L A	A A R L L T T G W K I	D I D I D I D I
UniRef90_UPI00047C0CBF	N E K E Q S A L V V V	P D D Y Q Q L S L A	A A K L L T T S W K I	D I D I D I D I
UniRef90_L1MH09	D E D E Q S A R V V V	P D D Y Q Q L S L A	A A R L L T T G W K I	D I D I D I D I
UniRef90_S2Z6M4	D A E N Q I A R V T V	P D D Y Q Q L S L A	A A R L L T T G W K I	D I D I D I D I
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UniRef90_F2FT0	N E E E K S T T V V V	P D D Y Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_W4F1E7	D E E E K S T T V V V	P D D Y Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_W6N4V6	D E D D N K F A Q I V	D D D D Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_UPI00039B2093	D L E T Q T A K V V V	P E Y Q Q L S L A	A A R L L T T G W R	D I D I D I D I
UniRef90_UPI00041FA99D	N E E E K A T T V I V	P D D Y Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_G2LFH9	D F T N Q K R L E V I V	E E S Q L S L A	A S Q L L T T G W N	D I D I D I D I
UniRef90_B0PH18	P D G A K S C R V S V	P D H Q L S L A	A A K L L T T G W K I	D I D I D I D I
UniRef90_D1BM57	E E E K S S Y V V V	P D D Y Q Q L S L A	A A K L L T T N W K I	D I D I D I D I
UniRef90_UPI0003B4764F	D D S L K A V R A L V	P D D Y Q Q L S L A	A A K L L T T G A K I	D I D I D I D I
UniRef90_S2WG86	S V I E K R Q A R A I V	P D D G Q Q A S L A	A A K L L T T G A W S	D I D I D I D I
UniRef90_F9MTD3	K E R E K E A L V V V	P D D Y Q Q L S L A	A A K L L T T N W K I	D I D I D I D I
UniRef90_R4YZJ4	R D L G T A E V I V	P D D F Q Q L S L A	A H R L L T T G L R	D I D I D I D I
UniRef90_H3NKI4	N E D D H T C I V V V	P D S Q Q L S L A	A A R L L T T G Y K I	D I D I D I D I
UniRef90_K1DVC2	D P K L R S A R V V V	P D D Y Q Q L S L A	A A K L L T T G W R I	D I D I D I D I
UniRef90_E4RKT8	N K S D K I A E V V V	P D D F Q Q L S L A	A A K L L T T G W K I	D I D I D I D I
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UniRef90_A5GF84	D E D N R S M E I V V	A D D Q L S L A	A A K L L T T G W R I	D I D I D I D I
UniRef90_L0GU93	D E E A R S M D V A V	K E E N L S Q A	A A S Q L L T T G W D	L N V
UniRef90_F3YB55	P E N N K V C T I V V	P D H Q L S L A	A A K L L T T G F K I	D I D I D I D I
UniRef90_A1B585	D E D A T R I E V V V	P D D E Q Q L S L A	A A S Q L L T T G L D	D I D I D I D I
UniRef90_D8FCA2	D E D D N H S M E V V	P D D D Q Q L S L A	A A S Q L L T T G W R	L D I D I D I D I
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UniRef90_UPI00036BBD60	D A D A Q V A R V T V	P D D Y Q Q L S L A	A A R L L T T G W K I	D I D I D I D I
UniRef90_UPI000363AE42	D A E A Q T A K V V V	P D D Y Q Q L S L A	A A R L L T T G W K I	D I D I D I D I
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UniRef90_T3HU44	D E D E K S A L V I V	P D D Y Q Q L S L A	A A K L L T T N W K I	D I D I D I D I
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UniRef90_UPI000469DCE8	D T D K K Q C I V I V	P D D Y H L S L A	A A K L L T T G Y K I	D I D I D I D I
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UniRef90_K7YLB5	D E D Q G R I E V V V	P N E E Q L S L A	A A F M L L T T G W D	D I D I D I D I
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UniRef90_R5EJ46 K S E S
UniRef90_A3TRX8 R S D N P
UniRef90_U2WT21 L T E A E
UniRef90_U1MSW6 Q P D S
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UniRef90_G8QPW3 M T Q E E

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UniRef90_G2IVV3		MSRE	ILLLD	DAV	LA	SE	KS	V	K	D	V	V	F	T	A	L	E	L	A	S	A	T	K														
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UniRef90_U2Q5Q2		MN	EE	LSAL	KEI	I	R	D	K	G	I	S	E	E	L	L	F	A	T	I	E	E	D	A	L	I	N	A	Y	K							
UniRef90_I4BWB6			MR	AL	KQI	A	E	S	D	K	G	L	P	M	D	V	I	S	A	L	E	E	E	A	I	L	V	S	A	Y	K						
UniRef90_D9QJ13			LQIA	NAV	A	E	S	D	K	N	I	D	M	R	E	I	V	I	E	A	M	E	E	E	A	I	L	V	S	A	Y	K					
UniRef90_R5JMB4		MN	VE	MQAL	EE	L	V	K	D	R	G	I	D	K	E	V	L	L	E	T	I	E	E	Q	A	L	T	S	A	Y	K						
UniRef90_W1TN63		MD	LD	MAAL	RMV	A	E	A	E	K	G	V	S	L	D	T	L	M	A	A	I	E	E	D	A	L	L	K	A	Y	H						
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UniRef90_A6NTX6			FA	AI	GM	I	E	Q	E	K	G	I	P	K	G	Y	M	L	E	K	I	T	Q	A	L	L	S	A	Y	K							
UniRef90_R5VKA9		MS	EE	IT	EL	AV	L	E	K	E	R	N	I	S	K	D	V	L	F	E	A	L	E	E	R	S	L	K	T	A	C	K					
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UniRef90_UPI0003B44028			MS	RE	LL	LL	D	A	L	A	R	E	K	N	I	S	G	R	E	I	V	F	D	A	L	E	L	A	L	V	S	A	T	K			
UniRef90_D5BU78			LQ	VA	DV	V	A	R	E	K	S	I	D	R	E	E	V	M	L	A	M	E	E	A	L	L	Q	K	A	G	R						
UniRef90_F8A9F7			I	DL	F	S	K	E	K	G	I	P	R	E	V	I	I	E	A	L	E	E	E	G	M	K	A	A	A	R							
UniRef90_R7ITK2		MN	KE	LE	AL	N	V	L	L	E	T	E	R	G	I	S	K	E	V	I	L	E	A	L	E	E	N	S	L	L	V	A	Y	K			
UniRef90_C4GBG0			LE	AL	N	D	A	L	E	T	E	R	G	I	S	K	E	H	I	L	E	A	L	E	E	K	S	L	L	V	A	A	C	K			
UniRef90_UPI0003FB8BAF			LA	IA	DA	V	A	R	E	K	L	I	D	K	G	I	V	I	E	A	M	E	E	D	A	L	L	Q	R	A	A	R					
UniRef90_D7BN49		ME	LS	MN	EL	R	I	V	E	S	E	K	L	G	I	D	L	N	V	L	N	A	I	E	E	D	A	L	L	V	R	A	Y	N			
UniRef90_G4E594		MN	KE	LL	V	D	A	V	S	N	E	K	G	V	A	K	E	L	I	F	E	A	I	E	E	S	A	L	L	S	A	T	R				
UniRef90_F7V6C8			LD	AL	T	H	L	E	K	E	K	N	I	S	K	D	A	L	L	D	A	L	E	E	K	S	L	L	N	A	C	D					
UniRef90_D1NVA2		MQ	LN	L	V	G	I	H	Q	L	A	K	E	Q	G	I	S	D	T	E	T	V	D	E	A	L	S	E	A	L	R	L	A	Y	L		
UniRef90_I0I5T0		MS	KA	L	I	A	I	N	Q	V	A	T	D	K	G	L	D	R	E	V	I	F	E	A	L	E	E	A	L	V	S	A	Y	K			
UniRef90_UPI000465BB4F		MS	RE	L	T	L	V	D	A	L	A	R	E	K	N	I	D	D	R	E	V	V	F	G	A	L	E	E	A	L	L	S	A	T	K		
UniRef90_E0S1N0		M S N E	L	MD	A	L	D	L	L	A	R	E	K	N	I	S	K	D	S	L	F	D	A	L	E	E	N	S	L	I	T	A	C	K			
UniRef90_W5WYLO			MN	LD	MA	AL	K	A	V	E	R	Q	E	S	V	P	M	D	E	L	L	Q	G	V	K	R	G	L	R	E	A	Y	R				
UniRef90_H1D1Y8			I	E	A	I	K	G	L	S	N	A	K	K	V	D	E	K	I	V	F	D	A	L	E	M	V	L	L	A	T	A	Y	K			
UniRef90_A0A031M4U7		M K S	E	MS	KE	LL	V	V	E	S	V	S	N	E	K	G	V	P	G	V	I	F	E	A	L	E	E	M	A	L	L	T	A	T	K		
UniRef90_R6Y8X1			TE	KE	L	I	T	A	I	E	E	L	E	K	E	R	G	I	S	K	E	Y	L	L	S	S	L	E	T	A	L	V	T	A	Y	K	
UniRef90_R6P3Z2			MS	SE	I	E	A	L	S	L	E	K	E	R	G	I	P	V	D	F	M	L	D	K	I	K	K	A	L	L	T	A	C	K			
UniRef90_C0D3R6		M D R R N	MN	SE	LE	A	M	E	V	L	E	K	E	K	N	I	S	K	E	T	L	L	E	A	I	E	E	N	S	L	I	T	A	C	K		
UniRef90_R5TW95			MN	T	E	M	E	A	L	T	I	L	E	K	E	K	N	I	S	R	D	T	M	M	D	A	I	E	E	N	S	L	I	S	A	C	K
UniRef90_I1XIB1		M N N K E		I	L	L	V	D	A	M	S	N	E	K	G	V	G	K	S	V	I	F	Q	A	L	E	E	A	L	A	M	A	T	R			
UniRef90_C6W5M8			MS	RE	I	L	L	L	D	A	L	A	H	E	K	N	V	D	D	K	S	V	I	F	T	A	L	E	E	A	L	L	S	A	T	K	
UniRef90_B4RC57			LQ	IA	E	A	V	A	R	E	K	A	I	D	K	E	I	V	I	E	A	L	E	E	A	I	L	Q	K	G	A	R					
UniRef90_D9SFJ1			MS	RE	LL	LV	D	A	L	A	R	E	K	N	V	D	D	K	E	V	V	F	S	A	L	E	E	A	L	L	S	A	T	K			
UniRef90_UPI0003B52E63			MS	EL	KKAI	DQI	S	K	D	R	G	I	D	D	R	D	L	L	I	D	T	L	E	E	S	A	V	R	S	A	V	A					
UniRef90_UPI000378D109			K	A	E	L	L	A	I	D	S	V	A	R	E	K	L	I	D	R	E	L	V	I	E	A	M	E	D	A	I	Q	R	A	A	K	
UniRef90_E3GNX1			MN	A	E	M	R	A	L	D	A	L	A	E	A	E	K	N	I	D	K	E	E	L	L	D	A	I	E	V	S	A	Y	K			
UniRef90_R5YXW7			MN	KE	L	E	S	L	N	V	L	E	K	E	K	N	I	S	K	E	V	L	F	E	A	I	E	E	N	S	L	V	V	A	Y	K	
UniRef90_A2SH41			MN	R	D	L	D	V	D	A	I	A	R	E	K	S	V	E	R	D	V	V	F	E	A	V	E	E	A	L	L	S	A	S	K		
UniRef90_M4VRG0		A D N	M	F	S	D	L	A	V	I	D	Q	V	G	K	D	K	G	I	P	K	E	V	V	D	A	V	K	Q	A	M	L	V	A	A	R	
UniRef90_Q4L5W8			N	E	L	L	A	T	E	Y	L	L	E	K	E	K	K	I	D	R	E	V	I	D	A	V	E	E	A	L	I	T	A	Y	K		
UniRef90_R6H1H1			MN	T	E	L	E	A	L	T	I	L	E	K	E	K	N	I	S	K	E	V	L	M	E	A	I	E	E	Q	S	L	I	Q	A	C	K
UniRef90_S6B4L2		M S R E	L	LL	V	D	V	M	S	R	E	K	N	I	S	K	D	V	I	F	S	A	L	E	E	L	A	L	L	A	S	A	T	K			
UniRef90_U2F180			MN	T	E	F	E	A	L	D	A	L	E	K	E	R	G	V	P	A	D	Y	L	J	E	K	I	E	A	A	V	V	I	A	V	K	
UniRef90_L0B3V9			MS	RE	L	M	L	D	A	L	A	R	E	K	N	V	T	R	E	V	I	F	S	A	L	E	E	G	A	L	A	F	A	M	K		
UniRef90_D3R078			MN	V	E	L	E	A	L	K	L	E	K	E	R	G	I	D	A	E	I	L	F	Q	S	I	E	E	A	L	V	S	A	Y	K		
UniRef90_K1M5Q2			MS	K	D	V	Q	A	M	D	L	L	E	A	E	K	G	I	S	R	E	V	I	K	E	A	I	E	E	A	L	L	V	H	A	Y	K
UniRef90_UPI00037ABC0C			MS	KE	L	L	V	V	E	A	V	S	N	E	K	G	V	D	K	E	V	I	F	E	A	L	E	L	A	L	A	T	A	T	K		
UniRef90_U7UBN6			MN	EE	L	L	A	L	N	Q	L	E	N	E	K	G	V	K	K	D	I	I	F	D	A	L	E	E	S	A	L	L	T	S	Y	K	
UniRef90_C0QH1				V	I	E	Q	V	S	R	E	K	G	V	N	E	V	I	S	T	I	K	E	A	S	A	L	V	E	S	A	K					
UniRef90_B2UAA2			MS	RE	L	L	L	V	D	A	L	A	R	E	K	N	V	D	K	D	V	V	F	G	A	L	E	E	A	L	L	S	A	T	K		
UniRef90_A0A037Z4Y6			MN	EE	F	E	A	L	R	E	I	V	K	E	K	G	I	E	D	L	I	F	N	T	I	E	E	D	A	L	L	V	A	Y	K		
UniRef90_R6QW23			MN	S	D	M	E	A	L	S	A	L	E	K	K	I	S	K	D	T	L	J	E	A	I	E	E	N	S	L	L	T	A	C	K		
UniRef90_UPI00047891C6			MN	EE	I	G	A	L	KEI	V	K	E	K	G	I	S	E	E	M	L	F</																

	50	60	70	80
UniRef90_G2IVV3	K K F N Q D D D I R V E I I D R H T G Q Y H T F R R R W T V E V G A V I E E P M E A			
UniRef90_S9RWF4	S R Y G S E M D I R V E I I D R E K T G E M T N V F R Q Y M A E P N V G D V V Y E E E V P			
UniRef90_D9QRG2	K N F G S D K Q T I V E I E I D R E N T G E V E N T V Y W R D P N Y E A G D D I L L A E E K I V T E			
UniRef90_B3PI95	K R F G D E D S T I V E I E I D R E N T G E G D Y E T W R S W D V V S D D I L L A E E K I V T E			
UniRef90_A5I4J6	K N Y G S T N N N V K V I M N R R E N T G E I K V V Y A Q K K V V E L E E D I I N I I V T E			
UniRef90_U4QSU8	K R Y G G G E N D F Q V E I I D R P K T G E I Q V Q V L Q I R R D P E A E V G D E E I L Y L E			
UniRef90_F8JFL3	S R Y G A E N D I R V E I I D R P K T G E A K V V D E V E N D A T Q I I T V E E E T L P			
UniRef90_U2Q5Q2	K N Y R G A N T N V R V S E I I N T S K E T G E L H V Y S Q R E V V E D V I V L V E I I E V T S			
UniRef90_I4BWB6	K Y R G A N T N V R V S E I I D S E N G E L I K L F E I L K E D V D R G E F E V K I I E V T S			
UniRef90_D9QJ13	S R Y G A H H D I R A R I D P K T G E L I A L T R R H V I T E D D W M P E D E L L E E F			
UniRef90_R5JMB4	K N F G S A Q N D V R I D L N R K E T G D I K V Y S Q R V V V D E Q D I I E H E V T			
UniRef90_W1TN63	N A P G A L E D A R V E I I D R K N D S H V M V M A A E I D E D G N K I I G E F D D T			
UniRef90_UPI0003B49678	K N F G Y T G E I R V E H I D P T G E M S I H V Y R S R T V V D D E V M E E T E V V			
UniRef90_A6NTX6	R H E G A G D N I M V E A D E E K G S V R M Y V K K D V V E T V D V V R V E I V K			
UniRef90_R5VKA9	K D F N T D E N I L T V S L D R E T G E Y H V Y K E V V D E V E N P S F Q I I E I T E			
UniRef90_V4JNZ4	K K H G G D I D A R V A L N D R E T G E Y D T F R R W E V V E D T D G E E E Q I E			
UniRef90_R6GR72	K N Y A S A Q N V K V T I D R E T G E I H V Y S Q K V V V D L D D V V D F E E V T			
UniRef90_UPI0003B6B69C	R V P G A L R G A R V A M D R E K S G R V V V W A P E Y D E E D H V I G E F D D T			
UniRef90_X8IT89	K N Y G N Y P N V R V S V D R E D G E V L V L M E D V E D D M M E V S E Y I Q V D T			
UniRef90_D9SKN3	K N Y E T N Q N F K V T M N R E T G D I K V F S R K D I V E N V I E L V D I E V T			
UniRef90_UPI0003B59E0B	K T F P N P D D F D I E V D P E T F R L R V L E K G			
UniRef90_UPI0003B44028	K N F G D D I D V R V Q I I D R A T G Q Y V T F R R W V V V E D N D V K E E P M D			
UniRef90_D5BU78	A K Y G L E R D I R A M I D R E K S G A I R L E R W M E V V E E V I E F S K Q S L P			
UniRef90_F8A9F7	K K F G P K A L I D A Q Y N E T G E L E V Y R R E L D P D V Q V G D E V V V D			
UniRef90_R7ITK2	V H F G K C D N V T I S I I D R H Q T G D Y E V V E I V E D K A T Q I I S L E E V V K			
UniRef90_C4GBG0	K F S D N A T N L R A V V D R E T G D F H V F V K K T V I E E A H D I I E E E L Q			
UniRef90_UPI0003FB8BAF	A R Y G A E N D I R V A K L D P N T G D L R L R W R E V V E E V D D Y F K Q V D L P			
UniRef90_D7BN49	R V P G A V R G A R V A M D R E K S G R V V V W A P E Y D E N N E V I G E F D D T			
UniRef90_G4E594	K K Y E G A I D V R V N I N R L S G D Y E T F R R W L V P D C A V G D Y L E E P			
UniRef90_F7V6C8	N H F G T S E N I R V V M N R E T C E Y H V Y A D K E V D E E V F I G E Y V Q			
UniRef90_D1NVA2	K T P N A A K H V R V E L D E R A G T F T I W A R D E D P H G H I G E Y D D T			
UniRef90_I0I5T0	R N Y G P A A N I T A K V D R A T T G E M R I Y T E R V E E V L N E R T E I T L D			
UniRef90_UPI000465BB4F	K L Y D R D V E V R V E I D R T T G E H Q K T Y R R W L D E A G L P Q E P E E P V A D			
UniRef90_E0S1N0	N N F G K A D N I R V E I D R R N N C D F K K Y V E T A D D V M D P Q I I E I S L D			
UniRef90_W5WYL0	A M S H Y E G Y V D V D I D P I S G E V T V Y Q V E K D E G N V T G R L D D T			
UniRef90_H1D1Y8	K E T G S N A K S V T L N R E T G D Y H I Y E E M V V I E I D P D S E I E V T			
UniRef90_A0A031M4U7	K R Y E D E V D V R V A I N R Q T G N Y D T F R R W T V V V D D D V V E E K I E			
UniRef90_R6Y8X1	R N F D S A E N V K V N M D E N T G D I K V Y A V K T V V E E V L D D E I I E I			
UniRef90_R6P3Z2	S S Y N G N D D A I I N M N P D T G D V F E V Y L Q K T E E V E D K G R E I Q L D			
UniRef90_C0D3R6	N H F G K A D N V R V I N N P D T G C V F A V Y M E K E V V E T P E D D Q I P L D			
UniRef90_R5TW95	N H F G T S D N I K V I M N R E T C D Y A V Y A E K E V E D A E E I D Q V P V Q			
UniRef90_I1XIB1	K R Y E M E D A D V R V A I D R Q T G N Y E T F R R Q W D A K V G D Y I R E E P M D S			
UniRef90_C6WSM8	K K H H D D A D V R V A I D R E S G E Y Q T F R R W Q E N S A Y Q I D E E P D E R			
UniRef90_B4RC57	A R Y G A E H D I R V A I D P K T G E T T I K R R D K D A E V G K V Y E E L L P			
UniRef90_D9SFJ1	K R F E D E A D V R V A I D R N T G E F E S F C W E V M D D E T F E T P D L H			
UniRef90_UPI0003B52E63	K R Y G D A M D I E V T F N E D L G E I E V Y Q V V V D H D E I S E I L K			
UniRef90_UPI000378D109	T R Y G A E N D I R A K I D P R T G D L R L R W R V V E V V I G D F I V D P L P P			
UniRef90_E3GNX1	K N Y G N V Q V D V D V K L D R E T G E I T V Y A T R D I V E D V E N I E K V I T			
UniRef90_R5YNW7	N N F N K A D N V I V N V D R E T G D F H I Y K E V V E E V F D P V I E I E I Q			
UniRef90_A2SH41	K L H G G E V D I R V S V D R D T G E Y E T F R R W L V V P D G D Y I E E A I E			
UniRef90_M4VRG0	K K Y G T Y R E I E A Q Y N E M T G E V E L F K E V V E A E K F V D E E E V I T			
UniRef90_Q4L5W8	K N Y D S A R N V R V E L N M D E T G T F K V I A R K E V L E E V F I Y E E D V T			
UniRef90_R6H1H1	N H F G K A D N V R V H V T I D H E T C E F S V Y A D K T V V E V V E L V Q V P I Q			
UniRef90_S6B4L2	K R F H E D V E V R V D L D R E T G E V R L W H V V P D D A V E F Y V E E P L E			
UniRef90_U2F180	K D Y N C G D N V L V D I D A E K C K G F D V Y L V K T V V E E V E D E Q I K L K			
UniRef90_L0B3V9	K K F K E D V D I R V S I D R D T G K Y E G F R R W L D P N I D V G D E E P L D			
UniRef90_D3R078	R E F D S S D N I R A E V D R E T G D M Q V F L E K E D F D I G D V L E Y Q L S			
UniRef90_K1M5Q2	K N Y E N A Q N V E V L F N I E T G D I K V F S V K E V I E A H Q I H Q I E V T			
UniRef90_UPI00037ABC0C	K R Y D E E A D I R V D I D R K T G E Y R A F R R W L V D N D D I H E E E V E			
UniRef90_U7UBN6	K N F G T N Q N V E V K I N R E D G H I D V F A N R I D D A K K I Y K E T I N D			
UniRef90_C0QH1	K K L G T R A D I E V H Y E E K S G E V E V F Q Q Y D P A C E I I G D S I K V D			
UniRef90_B2UAA2	K R F E E D V D V R V A I D R E S G E H E T F R R W L V I E V D D F V I E Q I E S			
UniRef90_A0A037Z4Y6	K N Y A T N Q N V I A N M N R E T G E I N V Y S R K T V V D E V I E V N I E V T			
UniRef90_R6QW23	N H Y G K A D N F I A K V D P D T G D F S V V V E N V E D D V T Q I S N I D V K			
UniRef90_UPI00047891C6	K N Y D N A H N V K V T M N R E N G D I H V Y E E T Y D N L N E I G L E I E V T			
UniRef90_D4YE42	R N Y Q Q A Q N V E I N F D V K K G S L E V Y A V K E V V D L V M D S Q F E V T			
UniRef90_D3HP07	K L F G L D I G V R I K L D P R T G D Y E T F R Y W D V V T D D D L E D P I D P			
UniRef90_W5XSZ8	E Y R D G N I E E R V D I D A D T G E V S V I I T E V D D E G E V V I E F D D T			
UniRef90_D1C373	K M A G T E E E V E V Q I D P N K G G L R I F V V K R D A V V G D V I R F D R T			
UniRef90_D3FE22	K Q P G A A P Y A Q V E M D R E L G D F T V W F E K L A E Y D Q I E R V D V T			
UniRef90_T2G9X3	R K Y G H A D D F E V G F N E E T G E I E V F Q R E H D P N V E L D D E I R L K			
UniRef90_R6MAJ7	K N F Y S A Q N V E V S I D R E S G T V K V F K E V V D L V Y D E F E E I E V T			
UniRef90_F4LZG9	K R F G K D D A D I R V S I D R E T G G H E G F R R W L V E V G E Y I E E A L E P			
UniRef90_UPI0003741C96	K L Y E G E V D I R V A I D R E T G E Y D T F R R W Q D R V P D V I E E E Q V E			
UniRef90_UPI00036E3BA3	S W I H D D A D V R V S I N R E T G D Y E A F R R W E V L D A E V E E E P L E			
UniRef90_E4UCC1	S L Y G T L S D I R V E I N R E T G N I S I C R R D R D P N I N I G D V L F D P			
UniRef90_R5F8N1	N H F G K A D N V K V T V N P N T C D F A V Y A E K A V V E N V E D D Q I P L D			
UniRef90_K0YW03	N V P G A L P K A R V E I D K H G H V I V M A T E E D E S D G N P Y I G E F D D T			
UniRef90_R5Y3R3	K N F G S A Q N V R V S V D R E K G G E V R V Y R R V D E S D G D I I E N E V T			
UniRef90_UPI00042692BA	K R H D N K I D V R V S I D R K T G D Y E T F R R W E V Q V G D Y I E E P I E S			
UniRef90_UPI0004660E38	K Y Q G G N Q N V E V H I D L E S G N V S I C M G Y T D V L I N E Y I R I E V N			
UniRef90_Q0AYJ0	K N F G I A Q N V S E F N E I N G E V K V F S M Q K D E V L K D P R L E V E A T			
UniRef90_Q1K0F9	K K Y R N T R E L E A H Y N T E Q G E V E L F E F V I T V V D E V I Q D S Y K E I D			
UniRef90_H0J580	K R F D Q E E N V V H I D R R T G D Y D T F R T W T V V E D D E L V E H K I E			
UniRef90_R5QP85	N H F G K A D N V T V S M N R E T G D F K V V A E K E V V A T P E V E V E I K			
UniRef90_C0W0C3	K M P G S I K E A R I E I D R K T G K V A V M A T E F D D D N P I G E F D D T			
UniRef90_V2YD36	R H E G V G D N I V M E A D E A G T V S R L F K E I V E E V D N P Y T E I E V K			
UniRef90_U6B6P6	S L Y G T V S I L R V E I D Q L T G E V S L Y R Q L E D P N V K I G D F I T E P			
UniRef90_R5H9V9	R H E G I T D N V F V E A N E I T E T V R M F K E I V E E V T N P F T E I E I K			
UniRef90_E4KQC8	R N Y D Q S Q N V E V V E N A D K G T L K V F Q K V V E E V N D P N E I E I T			
UniRef90_E1VI05	K R F N E D A D V R V S I N R T G A Y D T W R W T D E A H D D Y E E K I P			
UniRef90_G2SNX2	K N Y G Q A Q N V K V T F D A K R G D I K V F A V K E V V N E V L D S D F E V T			

		90	100	110	120
UniRef90_G2IVV3	V E	F G R I	G A Q Q A A K Q V I L Q K Q	V I R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_S9RWF4	P V D	M G R I	A A Q S A A K Q V I L Q K Q	V I R E A E E R D R M R Q Y E E F	K D R A G R T R I E
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UniRef90_B3PI95	N A E	F G R I	A A Q T A K Q V V I V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_A5I4J6	P K K	F G R I	A A Q A A K Q V V I V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
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UniRef90_U2Q5Q2	P R N	F G R I	A A M Q A K Q V V I V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_I4BWB6	P R D	F G R I	A A Q T A R Q V I V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_D9QJ13	N D E	F G R I	Q T Q M A R Q V I V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_R5JMB4	P M D	F G R I	A A Q T A K Q I V V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_W1TN63	P S G	F G R I	A T T T A K Q I V V Q K V	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
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UniRef90_A6NTX6	T K D	F G R I	A A Q T A R Q V I V Q Q A M	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_R5VKA9	T K N	F G R I	A A Q R A R N V I V Q Q A M	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
UniRef90_V4JNZ4	S E L	F G R I	A A Q T A K Q V I V Q Q A M	R E A E E R D R M R Q Y E E F	K D R A G R T R I E
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UniRef90_E3GNX1	P R D	F G R I	A A Q S A K Q L I V Q K V	R E A E E R E R K Q E E	V M T G I I V N R I
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UniRef90_Q4L5W8	P K D	F G R I	G A Q A A K Q A V M Q R L	R D A E E R D R K E D D	I L T G V I A D R V D
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UniRef90_S6B4L2	P V E	F G R I	G A Q A A K Q V I L Q K V	R E A E E R E R K E F	L V T G T I K R R M E
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UniRef90_D4YE42	P K D	F G R I	A A Q T A K Q V I M Q R V	R E A E E R E Y E D D	I L T G T V I R Q D
UniRef90_D3HP07	S I E	F G R I	E A Q A A R Q V I M Q K V	R E A E E R E K E G	L I L Y G T V K K V T
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UniRef90_U2Q5Q2	V	I	E	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	H	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_I4BWB6	V	I	E	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	H	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_D9QJ13	V	I	E	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	H	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_R5JMB4	T	V	Q	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	L	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_W1TN63	D	V	V	I	E	S	V	A	R	E	A	G	S	R	T	K	I	A	V	R	S	R	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI0003B49678	T	V	I	I	K	A	V	A	R	E	P	G	L	R	A	K	I	A	V	R	S	R	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_A6NTX6	T	V	E	I	K	S	I	A	R	E	A	G	S	R	T	K	I	A	V	W	S	A	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_R5VKA9	V	V	E	I	K	S	I	A	R	E	A	G	S	R	T	K	I	A	V	W	S	A	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_V4JNZ4	T	I	E	I	V	A	A	R	D	P	G	L	R	A	K	I	A	V	R	T	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R6GR72	V	V	E	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	V	S	H	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI0003B6B69C	H	V	E	I	I	A	L	A	R	E	A	G	S	R	T	K	I	A	V	Y	A	D	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_X8IT89	T	V	E	I	K	G	V	A	R	E	A	G	S	R	T	K	I	A	V	Y	A	D	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_D9SKN3	T	V	E	I	K	S	I	A	R	E	A	G	S	R	T	K	I	A	V	Y	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI0003B59E0B	I	V	E	I	K	S	V	A	R	E	A	G	S	R	T	K	I	A	V	T	S	H	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI0003B44028	L	L	E	I	K	G	C	A	R	E	P	G	L	R	A	K	I	A	V	T	S	H	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_D5BU78	I	I	E	I	K	G	V	A	R	E	A	G	S	R	A	K	I	A	V	L	S	N	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_F8A9F7	L	V	K	I	I	S	V	A	R	E	A	G	S	R	A	K	I	A	V	L	S	N	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R7ITK2	T	V	E	I	M	G	I	S	R	E	A	G	S	R	S	K	I	A	V	R	S	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_C4GBG0	T	V	E	I	K	A	A	R	E	A	G	S	R	T	K	I	A	V	W	S	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_UPI0003FB8BAF	L	I	E	I	K	A	A	R	E	A	G	S	R	A	K	I	A	V	L	S	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_D7BN49	P	V	E	I	V	A	A	R	E	A	G	H	R	A	K	I	A	V	L	S	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_G4E594	L	I	E	I	M	G	A	A	R	E	P	G	L	R	A	K	I	A	V	W	S	H	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_F7V6C8	L	V	E	I	K	N	I	A	R	E	A	G	S	R	T	K	I	A	V	W	S	N	D	A	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V
UniRef90_D1NVA2	A	V	S	I	K	M	A	I	A	R	E	A	G	A	R	T	K	I	A	V	R	A	N	T	D	G	V	N	P	K	G	A	L	I	V	G	M	R	G	S	S	R	V	V
UniRef90_I0I5T0	K	V	E	I	K	A	A	R	E	P	G	Y	R	S	K	I	A	V	Q	A	T	V	P	G	L	I	A	V	G	S	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_UPI000465BB4F	L	L	E	I	K	A	A	R	E	A	G	S	R	A	K	I	A	V	Y	A	T	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_E0S1N0	L	V	E	I	K	S	I	A	R	E	A	G	S	R	T	K	I	A	V	Y	S	T	N	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_W5WYL0	S	V	E	I	V	G	V	A	R	E	A	G	S	R	T	K	I	A	V	R	S	T	V	K	G	L	N	A	K	G	A	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_H1D1Y8	T	V	E	I	K	S	V	V	A	R	E	A	G	S	R	K	I	A	V	Y	A	M	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_A0A031M4U7	L	I	E	I	M	G	A	A	R	E	P	G	S	R	A	K	I	A	V	R	S	K	D	K	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R6Y8X1	L	I	E	I	K	S	V	S	R	D	A	G	S	R	S	K	I	A	V	Y	S	T	N	E	N	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R6P3Z2	T	V	E	I	K	S	V	S	R	E	A	G	S	R	T	K	I	A	V	W	S	K	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_C0D3R6	T	V	E	I	K	A	I	A	R	E	A	G	S	R	T	K	I	A	V	W	S	N	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R5TW95	T	V	E	I	K	S	I	A	R	E	A	G	S	R	T	K	I	A	V	W	S	N	D	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_I1XB1	M	I	E	I	K	G	A	A	R	D	P	G	L	R	A	K	I	A	V	L	A	H	E	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_C6WSM8	L	L	E	I	R	S	A	A	R	D	P	G	L	R	A	K	I	A	V	L	A	N	D	Q	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_B4RC57	V	I	E	I	R	A	V	A	R	D	P	G	S	R	A	K	I	A	V	V	S	N	D	Q	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_D9SFJ1	L	L	E	I	V	G	A	A	R	D	P	G	L	R	A	K	I	A	V	Q	S	H	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI0003B52E63	T	V	K	I	M	G	V	A	R	D	P	G	L	R	A	K	I	A	V	N	S	R	D	R	D	V	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_UPI000378D109	V	I	T	I	M	A	A	A	R	D	P	G	S	R	A	K	I	A	V	I	S	R	D	S	S	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_E3GNX1	I	V	D	I	V	S	I	S	R	E	A	G	S	R	T	K	I	A	V	K	A	N	D	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_R5YNW7	T	V	E	I	K	S	I	S	R	E	A	G	S	R	T	K	I	A	V	Y	S	N	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_A2SH41	L	L	E	I	K	S	C	A	R	D	A	G	S	R	A	K	I	A	V	L	S	H	D	K	R	V	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V	
UniRef90_M4VRG0	L	V	E	I	M	S	A	A	R	E	A	G	Q	R	A	K	I	A	V	R	T	K	D	N	S	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_Q4L5W8	T	V	E	I	K	S	V	A	R	E	A	G	S	R	T	K	I	A	V	Y	S	R	D	P	R	I	D	P	Q	230	C	I	V	G	M	R	G	S	S	R	V	V		
UniRef90_R6H1H1	T	V																																										

UniRef90_G2IVV3 Q S V T Q E L A G G E R I V D I V L W A P E P A Q F V I N A L S P A E E V N R K I M I V L
UniRef90_S9RWF4 Q A V V N E L Q G G E K I D I V P W N E D M P A Q F F I V N A L S P A E E V N S T K G I V V L
UniRef90_D9QRG2 Q A V V D E L N G G E K I D I V L N W S E D N P A Q F F I V A N A L S P A E E V I E S T E G S I V E V
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UniRef90_U2Q5Q2 Q N I V N E L K N E E K I D I I K W S K L P E E F I A N A L S P A K I V T L D V V T I V L
UniRef90_I4BWB6 K A I S D E L A G G E K I D V I I W S S D D P T Y I K N A L S P A E A V T R K V S I V K
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UniRef90_R5JMB4 R N I V D E L G D E E K I D I I V K Y S D D I G Q F V E A S L S P A S K V T T K V S V F I V
UniRef90_W1TN63 R A V M N E L N D E K I D I I D Y S E D D V A T F V A N A L S P A K H V T S V T T V E T
UniRef90_UPI0003B49678 Q A V V N E L Y H E K I D V I R W S P D L A Q F V V A S E A L S P A K P V I V A V H I L
UniRef90_A6NTX6 N N I V E E L K G G E K I D I I K Y S E D P A E F V A A A L S P A K A D V I S V T T L
UniRef90_R5VKA9 N A V V A D L N G G E K I D I I P W S E D P A Q F F I Y N A L S P A S D V I E D S I V
UniRef90_V4JNZ4 Q A V S N E L N G G E K I D I I S W D Q N P A Q F F I V I N A M S P A D D V I E D S I V
UniRef90_R6GR72 Q N I V D E L K G G E K I D I I K W S K D P A E F L A S A L S P A K V V T S I V T I L
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UniRef90_D9SKN3 Q N I V N E L G N E E K I D I I K W N K L P E E Y I A N S L S P A K T L D V V S I L
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UniRef90_UPI0003FB8BAF Q A V V Q E L Q G G E K I D I I P W S E D T A T F V V N A L S P A T V S T R V V E I L
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UniRef90_G4E594 Q S V S N E L A G G E K I D I I V W D E H P A Q F V I N A M S P A E V T S I V V I A
UniRef90_F7V6C8 N D V V A E L N G G E K I D I I N W D I N P A I L I Q N A L S P A K A V I V A
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UniRef90_C6WSM8 Q A V T G E L A G G E R V D I V L W S E M P A Q F V I N A M S P A E V S S I V V
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UniRef90_UPI0003B52E63 Q N V V Q E L R G G E R I D I V V W S P D V A T F V V N A L S P A T I V S R I T V D
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UniRef90_U2F180 A A I V A E L G G G E K I D I I R W S E D P V A F I S E A L S P A Q V S G V E I L
UniRef90_L0B3V9 T A V R N E L G G G E Q V D I V L W S D D P A Q F V I G A L S P A N V E S I V V
UniRef90_D3R078 Q A V M D E L N G G E R V D I I Q W S P N P A E F I A N A L S P A K V V S V E V A
UniRef90_K1M5Q2 Q L I V D E L H G G E R M D I V K Y D E D P A V F I K N A M S P A H V L D V V L
UniRef90_UPI00037ABC0C Q A V S G E L G N E R I T D I V L W D D N P A Q L V I N A M A P A E V A S I I I
UniRef90_U7UBN6 K A I V D D L H G G E K I D I V L W E K E I D H F I A N S L S P S S V E R K V F I V
UniRef90_C0QHM1 Q S I V Q E L R G G E K V D I V P W N P D V A K F V C A N A L S P A E I V A R V I I
UniRef90_B2UAA2 T A V R N E L G G G E A V D I V L W S E D P A Q F V I G A L S P A Q V Q S I V V
UniRef90_A0A037Z4Y6 Q N I V N E L K N E E K I D I I K W S K L P D E Y I A N A L S P A K V L D V D V
UniRef90_R6QW23 N A V V D E L G G G E K I D I I N W S E N P A N L I E N A L S P A K V V S V V A D
UniRef90_UPI00047891C6 Q S I V N E L K N E E K I D I I K W S K L P E E Y I A N S L S P A K V I D V S I
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UniRef90_UPI000374E82E R A I L K E V R A E G R G G P Q L V L S S R S C S A M L I E L F R I E V P P E I I A R D E E
UniRef90_UPI0003664720 K F Y V L D V R Q M T R G G K I V I S S R T H P G L L R K L M E L E V P P E I I A R D E E
UniRef90_D4MAT3 R G L L Y V I R P E A R G A Q Q L F I S S R A V P E F F V A G L L K L E V P P E I I A E N D
UniRef90_K7AS80 K V Y V Q S V I V K D K K G G K I M V S S R A V P E F F V A G L L K L E V P P E I I A E N D
UniRef90_A8F3W1 R A I L S K I E T E G M R G G P Q Q L L S S R T A P E F F L I R L F F E L E V P P E I I A E E E
UniRef90_A0P4S4 R A I L Q E I R T E G R G G P Q Q L L S S R T N S P E F F L I R L F F E L E V P P E I I A E E E
UniRef90_UPI000262CDEB K V Y V T K V E N A T K G G P Q Q I F V S S R T A S G M L K R L F F E Q E V P P E I I A D D G G
UniRef90_H1LJG6 R A Y V V A V Q N G A R G A P E I T I S S R T H P N F V R R L F F E T E V P P E I I A D R E
UniRef90_B4CYQ1 R G L L F A V R P E A R G A Q Q L F V S S R T Q P E M L I E L F F E L E V P P E I I A D E E
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UniRef90_E5Y3F2 R A A L L K I E T S M R G G P Q Q L I L S S R T S P D F F I K L F F E L E V P P E I I A E E G
UniRef90_B6BVK1 R A V V H E V K K Q Q R V K I L V S S R T E P S F F V K R L F F E L E V P P E I I A D N
UniRef90_E8QYY6 K V Y V S D V D R G T K G G T H I V V S S R T E P S F F V K R L F F E L E V P P E I I Y D D G G
UniRef90_R5R037 K V Y V T E V K T E K K G K I A V S S R T C H P E F V K R L F F E A E V P P E I I Y R D G G
UniRef90_R5LK96 R A Y V L D V R R E N K G G P Q Q V F L S S R T C H P E F V K R L F F E A E V P P E I I Y R D G G
UniRef90_R6J3J9 R G Y L K S V E E V T R G G P Q Q L T V S S R S A P E L L T A L F F K L E V P P E I I V G D G G
UniRef90_K0C2P2 K M L I L S V E K S T K G G P Q Q I V L S S R T A H P D L V K R L F F E L E V P P E I I V S E G G
UniRef90_E4KYI3 R G Y L R D V R S E S P R G G P Q Q L F V S S R T A N E F L V E L F F K I E V P P E I I S E G G
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UniRef90_UPI000378C7DE K V Y L K E V Q R A S K G P S L I V S S R A A H P E E L L R Y L L K Q G E V P P E I I A E G N
UniRef90_F2NP18 R V V L L R V D R A S K G P Q Q V I V S S R A A H P E L L V T S L F Q Q G E V P P E I I Y A E D N
UniRef90_C1F696 R G L L F A V R P E A R G A Q Q L F V S S R S H P D F L I E L F F R T E V P P E I I G E E
UniRef90_F7RV45 K C Y I I D V R K T T K G G E I F L S S R K S P E L L K R L F F E V E V P P E I I Y S G G
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UniRef90_M1PJD4 R A Y V Q D V S F R P R G G P Q Q I F M S S R A D A G M V Q R L F F E Q E V P P E I I G D D
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UniRef90_UPI0003716537 R A M I M E V P T L R G A P I L L S S R S S P D F M V E L F F E Q E V P P E I I Y E Q E
UniRef90_V4YH16 K G L L K E V K P E A R G G T Q L F I S S R A C N E M L I E L F F R T E V P P E I I N E E
UniRef90_A6FB67 R A Y V L D V E R G V K G G P Q Q V I V S S R A H A D F V R K L F F E L E V P P E I I Y E G G
UniRef90_R5XMJ2 R A Y I T E V D P T L R G P A I L L S S R A A P A F M I E L F F R N E V P P E I I Y Q Q G
UniRef90_U5NA70 R A Y I S E V K M S T K G G P Q I L L S S R T H P G L L I S L F F K S E V P P E I I A E G G
UniRef90_UPI00035C5D32 R V Y I V D V R K T T K G A R L L S S R A H P D L V K G L F F A E E V P P E I I A R D G G
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UniRef90_G7V9V5 K F F L L D V R Q T T K G G P R I V V S S R T H P G L L R R L F F E L E V P P E I I Q E E
UniRef90_E3CZK5 R V I L I G I R E E N R G P Q Q L V S S R A A P E M L V Q L F Q L E V P P E I I A E G G
UniRef90_UPI00036FF8CE K L Y I V E V K D T N R G G P R I L V S S R T H P D L V K R L F F E K E V P P E I I A D G G
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UniRef90_G4T3D4 K V F V T E V R K E S R G G P L V T S S R T H P G L V R R L F F E L E V P P E I I Q D G G
UniRef90_R6TCF5 K V L V T K V G S D A K G T Q I T V S S R T A P G L V K R L F F E Q E V P P E I I Y N G
UniRef90_C8PDC5

180
190
200
Y D G G
N F E G G
A G E E E
F F E D G
A Y E G G
Y D D G G
S D D G G
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Y D D G G
G Q G G
Y R D G G
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S E G G
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A E E E E
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Y E G G
S E G G
K D G G
Y E G G
S E G G
A E G G
Y E G G
N E E G G
S E G G
K D G G
Q D G G
Q E G G
Y N G

	250	260	270	280
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UniRef90_UPI0003640780	K N I V V R E E L	N N E K I V D I I	P W D P E N E F F V A N A L	N P A K V L S R V V I
UniRef90_A6LSQ1	Q A V V Q E L	K N E K I D I I	P W S E D T A T F V V N A L	N P A K V L S R V V I
UniRef90_B4UHF8	Q A V V Q E L	R K G E K I D I I	P W D E D N P A E F F V A N A L	N P A K V L S R V V I
UniRef90_R8AML6	Q A V S G E L	G G G E R V D I I	L W D D N P A Q F V I N A M A	P A E V V A S I V V
UniRef90_C5RBB9	Q A V V T E L	S G G E R V M D I I	Q W T E D D P A E F F V I K N A L	N P A E V V S I V V
UniRef90_Q0AFJ2	Q A V T G E L	A G G E R V D I I	Q W S D D P A Q F V I N A M A	P A E V V A S I V V
UniRef90_Q2LWU5	Q S V V Q E L	R G G E K I D I I	P Y S E D D P S Q F V I S A L	S P A K V L S H V V T V V Y
UniRef90_UPI00035ED26B	Q A V V Q E L	Q G G E K I D I I	P Y S E D D P A Q F V I V A A L	S P A E V V T K V V L
UniRef90_R6T8M2	A A I V V E E L	R G G E K I D I I	P Y S E D D P A Q F V I V A A L	S P A E V V T K V V L
UniRef90_D6SK65	H N I V V Q E L	K G G E R I D I I	V S P D I A T Y A A N A L	S P A R I V T R I V T V S
UniRef90_I7LEZ6	Q A V S G E L	G G G E R V D I I	K Y E E D P S D Y I A N A L	N P A E V V S I V V
UniRef90_UPI0003B50E34	Q A V S G E L	G G G E R V D I I	L W D D N P A Q F V I N A M A	P A E V V A S I V V
UniRef90_W6RZ21	Q N I V V N E L	K N E K I D I I	K W S K L P E E Y I S N A L	S P A N V V L E I V I T
UniRef90_Q01W32	Q S I V V N E L	R G G E K I D I I	E Y S E D S V V F A T H A L	S P A K V L S R V V I
UniRef90_UPI000367E57A	K N I T D E L	R G G E K V D I I	E W S N D P E V L I K E A L	S P A Q V L S R V V I
UniRef90_C4K3F1	Q A V S T E L	G G G E R I D I I	L W D D N P V Q F V I N A M A	P A E V V S I V V
UniRef90_HOUJT0	R S I S S E L	C E E K I D I I	L W D D D P L T Y V K N A L	S P A T P V V K V I E L V
UniRef90_UPI0002D78813	E A I V V N E L	A G G E K I D I I	L W D E D P K V F V K N A L	S P A Q V L S R V V I
UniRef90_UPI0004795670	N N I V V E E L	R G G E K I D I I	K Y S D D P A E Y V A A L	S P A E V V I S V V K T M
UniRef90_V1CQL6	Q N I V V D E L	N N E K I D I I	L W S D D P E E L I R N A L	S P A K V D R V E I I P
UniRef90_H6LJW9	Q N I I N E L	A G G E R I D I I	K W S D N P E E Y I A N A L	S P A K V V E I V L
UniRef90_U2FRF9	Q S V S N E L	A G G E R I D I I	M W N E N P A Q F V I N A M A	P A E V V E S I V L
UniRef90_S4X0R2	Q S I V V H E L	G G G E K I D I I	N W D D N P A V F I A K A L	S P A K V L S V H L F F A
UniRef90_D7GU75	N A I V V N E L	R G G E K I D I I	E W D D N P A F L I E N A L	S P A K V I S A T M Q
UniRef90_R8VT34	G N I V V D E L	G G G E K I D I I	K W S E D T A A F V S A A L	S P A D V I S A T M Q
UniRef90_E1YER3	Q N I V V Q E L	R G G E K I D I I	P W H V D S A K Y I C A L	S P A E I R V V I H
UniRef90_R7M8P6	Q N I I N E L	H G G E K I D I I	E W N Q D P A I Y I S A A L	S P A Q V M A V D A H
UniRef90_R6G7C6	N A I V S D L	R G G E K I D I I	E W N D D P A V L I E N A L	S P S N V V S V D V H
UniRef90_UPI0003654B3F	R A V T N E L	D D E K I D I I	D Y S N N L A E F V A N A L	S P A K V S S S F V L
UniRef90_A0A059FCT7	Q A V T G E L	S G G E R V D I I	P W S Y D D A T F I V A N A L	S P A E V V S K V V L
UniRef90_B6FZB4	K N I V D E L	G D E K I D I I	K Y S D D F A E Y I S A S L	S P S K V V K V E V
UniRef90_H7CX85	Q N I V S E L	K N E K I D I I	P W S N T P S E Y I E N A L	S P A K V I S V A
UniRef90_D8LJZ4	Q N I V S E L	K N E K I D I I	P W S E D P A L L I T N A L	S P A Q V V R V I
UniRef90_C7LR13	H S I V V Q E L	R G G E R I D I I	L W S P D I A T Y A A N A L	S P A R I S K I A I D
UniRef90_R5RZC1	N A I V V E E L	R G G E K I D I I	N W S D S P A V L I E N A L	S P S K V I S V D V H
UniRef90_A9AV46	Q N I V V N E L	N G G E K I D I I	W G A D M R V F I A N A L	S P A Q V V E V I V L
UniRef90_Q0FDZ9	Q A V V N E L	G G G E K L D I I	P W N E D A P T F L V I N A L	S P A E V T K V V L
UniRef90_R6AN15	E N I V V N E L	H N G E K M D I I	E W D P D I A V Y I A K A L	S P A G V L M V Y I
UniRef90_UPI000374E82E	Q A V V N E L	H N G E R I D I I	E W T E N P A S F V V N A L	S P A K V V E R V L V
UniRef90_UPI0003664720	Q A V S N E L	N G G E R V D I I	L W D D N P A Q L V I N A M S	P A D V V A S I V I
UniRef90_D4MAT3	K A I S S G E L	M G G E K V D I I	V W S S D P L A Y I R N A L	S P A Q V V K V E P V
UniRef90_K7AS80	Q A V S G E L	S G G E R V D I I	V L W D D N P A Q F V I N A M A	P A E V V A S I V V
UniRef90_A8F3W1	S A I L R E L	K G G E K V D I I	F R W T D D P R Q L I V N A L	A P A S V T S I V E I L
UniRef90_A0P4S4	Q A V T G E L	A G G E R V D I I	V L W S I D E P A Q F V I N A M A	P A E V V S S I V V
UniRef90_UPI000262CDEB	Q A V S N E L	N G G E R V D I I	V L W S I D E P A Q L V I N A M A	P A E V V S S I V V M
UniRef90_H1LJG6	Q T I V V N E L	H G G E N M D I I	E W D E D D A A Y I A N A L	N P A E V V D V I F D
UniRef90_B4CYQ1	K N I V R E L	N N E K V D I I	I R W S S D T K E F V L E A L	K P A K V K S V T L
UniRef90_A1ST44	Q A V S S E L	G G G E R V D I I	L W D E N P A Q Y A I N A M S	P A D V V S V V I
UniRef90_E5Y3F2	Q N I V Q E L	H G G E R I D I I	V W S P E I S T Y A R N A L	A P A V I S R I V V
UniRef90_B6BVK1	Q A V T T E L	S G G E R V D I I	V L W S I D E P A Q F V I N S M A	P A E V V S S I V V
UniRef90_E8QYY6	K T I T D E L	G G G E R I D I I	V R W N D S L Q V L I P N A L	A P A E I S D E V M L C
UniRef90_R5R037	K N V V D E L	N G G E M I D I I	L W S S D P V V F I S N A L	S P S D V K W V S I
UniRef90_R5LK96	N A V V S E L	N G G E K I D I I	N W S K N P A N L I E N A L	S P A K V V Y V A A
UniRef90_R6J3J9	Q A V V T E L	Q G G E K I D I I	P Y S E D K A Q Y I V S A L	S P A E V T K V V L
UniRef90_K0C2P2	Q A V S N E L	A G G E R V D I I	L W D E N E A Q F V I N A M S	P A E V V A I V V
UniRef90_E4KY13	N A I V D E L	D N E K I D I I	V Y E K E I D K F I A N S L	S P S K V E K V F V
UniRef90_A1WXV2	Q A V S N E L	S G G E R I D I I	P W S E D P A Q F V I N A L	A P A E V S E I V V
UniRef90_UPI0003B739C0	N A I V N E L	F G G E K I D I I	N W D P N P G E L I K N A L	S P A K I V N V F A
UniRef90_S6CEP3	R M V V E E L	R N G E R V D I I	Q W S D D P A V Y I V A N A L	S P A K V S H S I V
UniRef90_UPI0003B3DA72	Q A V S N E L	N G G E R V D I I	V L W S D N P A Q F V I N A M A	P A E V V A S I V V
UniRef90_UPI000378C7DE	Q A V S G E L	G N G E R V D I I	V L Y D D N P V Q Y V I N A M Q	P A E V V A S I V V
UniRef90_F2NP18	Q A V S A E L	G R G E R V D I I	Q W S P N P R E F I L R N A L	S P A T V G A I E I D A
UniRef90_C1F696	Q S I T R E L	R G G E K I D I I	E F S E E V T T F A E R A L	S P A K V S R V S I V M
UniRef90_F7RV45	Q A V S S E L	G G G E R V D I I	L W D D N P A Q F V I N A M A	P A E V V S I V M
UniRef90_E4LA16	R N I V V N E L	H D E K I D I I	V R W D D P A V Y I A N A L	S P S K V I S V S I W
UniRef90_M1PJD4	Q N V V Q E L	N G G E R I D I I	P W S P D P A K Y V Y N A L	A P A H V S M V M A
UniRef90_Q31GK6	Q A V T N E L	N G G E R I D I I	L W D S N D A Q F V I N A M A	P A E V T S I M V
UniRef90_UPI000376C249	Q A V V N E L	H G G E K I D I I	E W T P D P A T F V I N A M A	P A A I E R V L V
UniRef90_R6JNJ3	S N I V D A L	G G G E K I D I I	V K Y N D D V P T Y I A A L	A P A D V V G V E I L
UniRef90_C6XRW9	Q A V V S E L	Q G G E K I D I I	P W S E D E A T F I V I N A L	Q P A E V S K V V V
UniRef90_D7BF14	Q A V S A E L	G G G E R V D I I	Q W S A N P R E F I R N A L	S P A Q V G N I E T
UniRef90_D4K1X6	A A V V E K L	G G G E K I D I I	V K W S E D I S E F I S A A L	S P A K V V K V E L L
UniRef90_M1Z245	Q S I V Q E L	R G G E K I D I I	E F S E D P E I F I R N A L	S P A K I S R I V L M
UniRef90_R6D3J2	S A I V E E L	G G G E K I D I I	R Y S E Q P E E L I A A A L	S P A E V S V V L V D
UniRef90_B5JRQ9	Q S V S N E L	S G G E R V D I I	L F D D N P A Q F V I N A M S	P A E V V S I V V
UniRef90_F0JCT8	Q N V V Q E L	K G G E R I D I I	V W S P D I A M Y A Q H A L	S P A V I T R I V T V D
UniRef90_UPI0003716537	Q A V V N E L	H G G E K I D I I	E W T E D P A A F V V N A L	A P A E I E R S I V V
UniRef90_V4YH16	N G V T N E L	A G G E R V D I I	L W S E D P A Q F V I G A L	A P A N V S S I V V
UniRef90_A6FB67	Q A V S N E L	N G G E R V D I I	L W D D N P A Q F V I N A M A	P A E V V A S I V I
UniRef90_R5XMJ2	Q N I T N E L	N G G E K I D I I	E W N Q D P S I Y I S A I L	P A Q V L A V D I K
UniRef90_U5NA70	A A V T N E L	A A E E R V D I I	V L W S D N P A Q F V I S A L	A P A I V S I V V
UniRef90_UPI00035C5D32	Q N V V T E L	R G G E R I D I I	P W S P D T A R F A C A L	A P A E V S R V Y I
UniRef90_R5CDD9	N N I V N E L	N G G E K I D I I	V N W D D N P G N L I Q N A L	S P A K I V A V F A
UniRef90_H8L3B5	Q A V S N E L	N G G E R V D I I	L W H E N Q A Q Y V I N A M A	P A E V V Q S I L I M
UniRef90_G7V9V5	K S I S N T L	G G G E R I D I I	V Y S S D P L Q F I R N A L	S P A K V V K M E P V
UniRef90_E3CZK5	K S I S G E L	G G G E R I D I I	V W S S D P L A Y V R N A L	S P A K I A K I E P I
UniRef90_UPI00036FF8CE	Q A V S N D L	D D E R V D I I	V L W D D N P A Q L V I N S M A	P A E V V S I V V
UniRef90_R6QND1	N A I V N D L	K G G E K I D I I	N W N E D P C V Y I E N A L	S P S K V S V S V D
UniRef90_G4T3D4	Q A V S N E L	A G G E R V D I I	L W H E S E A Q F V I N A M A	P A E I E S I V I
UniRef90_R6TCF5	S N I L K E L	G G G E K I D I I	V R Y S E D V P E E F I A S A L	S P A K I N R V V I
UniRef90_C8PDC5	Q N I V N E L	S G G E N I D I I	V K Y E D P S D Y I A N A L	N P A E V I A V Q F G

	290	300	310	320
UniRef90_Q2G5E5	D E E S R L E V V V P	D D E Q Q L S L A I	G G R R G Q Q N V R L	A S S L T G S A I
UniRef90_UPI0003640780	D E D R R R L N V V V D	D D D N Q Q L S L A I	G G K R R G Q Q N V R L	T S K L L C G W H I V
UniRef90_A6LSQ1	D E E N Q N R A K E I V V	D D D D Q Q L S L A I	G G K R R G Q Q N V R L	A A S K L L T T N N W K I
UniRef90_B4UHF8	D E D S H S M D I A V E	A D S N Q L L S L A I	G G R R N G Q Q N V R L	A S Q L T T T G W W L
UniRef90_R8AML6	P T N D K R A A T V L V	E A D S N Q L L S L A I	G G R R N G Q Q N V R L	A S Q L T T T G W W L
UniRef90_C5RBB9	D E D K H A M D V V V D	D E E N Q L L S L A I	G G R R G Q Q N V R L	A A S E L T T T G W Q L
UniRef90_Q0AFJ2	D E N E T H A M E V V V	P D D E Q Q L L S L A I	G G K N R G Q Q N V R L	A S Q L T T T G W W L
UniRef90_Q2LWU5	D E A N T R I E V V V D	P D D E Q Q L L S L A I	G G K R R G Q Q N V R L	A S Q L T S T G W T I
UniRef90_UPI00035ED26B	D E A N G K A L E V V V	P D D D Q Q L L S L A I	G G K R R G Q Q N V R L	A A R L T S T G Y K I
UniRef90_R6T8M2	D E D E K S S A L E V V V	P D D D Q Q L L S L A I	G G K R R G Q Q N V R L	A A S S L L T T G W K I
UniRef90_D6SK65	D E E D K S S A L E V V V	P D D D Q Q L L S L A I	G G K R R G Q Q N V R L	A A S S L L T T G W K I
UniRef90_I7LEZ6	D E E D K S S A L E V V V	P D D D Q Q L L S L A I	G G K R R G Q Q N V R L	A A S S L L T T G W K I
UniRef90_UPI0003B50E34	D E E D S H S M D V A V	E E E D Q Q L L S L A I	G G R R G Q Q N V R L	A A S E L T T T G W R I
UniRef90_W6RZ21	D E E N K E A V V V V D	D E D S Q Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W K I
UniRef90_Q01W32	D P L E K H M E V I V	D D D S Q Q L L S L A I	G G K K G Q Q N V R L	A A K L L T T G W K I
UniRef90_UPI000367E57A	D D E E T R T A Q V I V	P E A D Q Q L L S L A I	G G R D G Q Q N V R L	A A R L L T T G W W R I
UniRef90_C4K3F1	D E D K H T M D I A V E	E A T H L A Q A I	G G R N T G Q Q N V R L	A S R L L S S G W E L
UniRef90_HOUJT0	P D A E N Q S T M V I V	K P D N Q L L S L A I	G G K T G Q Q N V R L	A A R L T T T G W K I
UniRef90_UPI0002D78813	D E E E K S S A K V I V	K D D Y Q L L S L A I	G G K S G Q Q N V R L	A A R V S T G W K I
UniRef90_UPI0004795670	D D E E K S S A K V I V	K D D Y Q L L S L A I	G G K S G Q Q N V R L	A A R V S T G W K I
UniRef90_V1CQL6	N K D D K T A I A I V	K D D Y Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W W K I
UniRef90_H6LJW9	D E D S S S M D L A V	A E D V L A K A I	G G R G G Q Q N I R L	A S E L T T T G W K I
UniRef90_U2FRF9	D E E K E R T A Q V I V	P D D D Q Q L L S L A I	G G R E G Q Q N A R L	A A R L T T T G W R I
UniRef90_S4X0R2	D E D E K T E A Q V I V	P D D Y Q L L S L A I	G G K E G Q Q N A R L	A A R L T T T Y K I
UniRef90_D7GU75	P E T K A C R V I V	P D D Q Q L L S L A I	G G K E G Q Q N A R L	A A K L T T G C K I
UniRef90_R8VT34	D E D N H A M E V I V	P D D E S Q L L S L A I	G G K R A G Q Q N V R L	A A S K L T T G W N I
UniRef90_E1YER3	D E D E K F A Q V I V	P D D D Q L L S L A I	G G K A G Q Q N V R L	A A R L T T T G W K I
UniRef90_R7M8P6	D E E E K S A R V V V	P D D Y Q L L S L A I	G G K E G Q Q N A R L	A A K L T T T G Y K I
UniRef90_R6G7C6	D P K T K A V R V V V	A D D F Q L L S L A I	G G R R G Q Q N A R L	A A R L T T T G A R I
UniRef90_UPI0003654B3F	D D E E K R R V E V V	A D D Q Q F P L A I	G G R R R G Q Q N V R L	A A S Q L S T G W Q I
UniRef90_UPI00059FCT7	N E E E K S A L V V V	P D D Y Q L L S L A I	G G K D G Q Q N A R L	A A K L T T T G W K I
UniRef90_B6FZB4	D E E T K S A K V I V	D D D S Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W K I
UniRef90_H7CX85	N E A L K S A T A V I	P D D R Q Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W R I
UniRef90_D8JZQ4	D E E K S L E V V V	P E D Q Q L L T P A I	G G K K G Q Q N V R L	A A K L L T T G W K I
UniRef90_C7LR13	D E E E K T A S V V V	P Q D Q Q L L S L A I	G G K E G Q Q N A R L	A A K L T T T G Y K I
UniRef90_R5RZC1	D E E K T A T V V V	P D K Q Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W R I
UniRef90_A9AV46	D E D A E R I E V V V	P D D E Q Q L L S L A I	G G R R G Q Q N V R L	A S Q L T T T G L D I
UniRef90_Q0FDZ9	N E A E K A A K V I V	A D D N Q L L S L A I	G G R R G Q Q N A R L	A A K L T T T G W K I
UniRef90_R6AN15	D E E S N V I E V A V	A E D N L A I A I	G G R K G Q Q N V R L	A A D L T T T G W D I
UniRef90_UPI000374E82E	D E E T H S M D V A V	A Q E I L A M A I	G G R G G Q Q N V R L	A S E L T T T G W T I
UniRef90_UPI0003664720	L D D Q E H A A K A Y V	E A P E N Q L S L A I	G G K A G Q Q N V R L	A A R L T T T G W K I
UniRef90_D4MAT3	D E D K H S M D V A V	E A D N L A Q A I	G G R K A G Q Q N V R L	A A S Q L T T T G W E L
UniRef90_K7AS80	D F E R K A V R V V V	P P T Q Q L S L A I	G G K G G Q Q N A R L	A A K L T T T G W K I
UniRef90_A8F3W1	D E D K H S M D L V V	V E D Q Q L A Q A I	G G R N G Q Q N I R L	A S E L T T T G W E L
UniRef90_A0P4S4	D E D K R S M D L V V	V E D Q Q L A Q A I	G G R N G Q Q N I R L	A S E L T T T G W E L
UniRef90_UPI000262CDEB	D E D N R S M D V A V	T D D N L A Q A I	G G R G G Q Q N V R L	A S E L T T A W K I
UniRef90_H1LJG6	P D N D R A C T V I V	P D D Y Q L L S L A I	G G K K G Q Q N A R L	A A K L T T T G F K I
UniRef90_B4CYQ1	D E S K K N I L I K V	D E D Q Q L S L A I	G G K R N G Q Q N A R L	T S Q L T T T G W D I
UniRef90_A1ST44	D E D A H S M D I A V	E E D N L A Q A I	G G R N G Q Q N V R L	A S Q L T T T G W E L
UniRef90_E5Y3F2	D E A E N L L E V T V	P D D Q Q L T S A I	G G R K G Q Q N V R L	A A K L L T T G W K I
UniRef90_B6BVK1	D E E K R S M D I V V	D E D Q Q L L A I A I	G G R N G Q Q N I R L	A S Q L T T T G W E L
UniRef90_E8QYY6	G L L G R A I V V V	R D D Q Q L S L A I	G G R R R G Q Q N V R L	A S K L T T T G W D I
UniRef90_R5R037	N E E N H S A L V V V	P D D D Q Q L S L A I	G G K R G Q Q N A R L	A V R L T T T G W K I
UniRef90_R5LK96	D A E E N T R A Q V I V	P D D Y Q L L S L A I	G G R R R G Q Q N A R L	A A R L T T T G F C I
UniRef90_R6J3J9	D E E N K T I E A V V	P Q E Q Q F L S L A I	G G R R R G Q Q N V R L	A A S Q L T T T G K I
UniRef90_K0C2P2	D E D K H S M D V S V	K D D S L S Q A I	G G R G G Q Q N V R L	A S E L T T T G W K I
UniRef90_E4KY13	N E A E K S A L A I V	P D D Y Q L L S L A I	G G K E G Q Q N V R L	A A K L T T T G W K I
UniRef90_A1WXV2	D E D R G A M D V A V	A E E Q L S Q A I	G G R G G Q Q N V R L	A S E L T T T G W E L
UniRef90_UPI0003B739C0	D P E E K K A K V V V	P D D S Q L L S L A I	G G K V G Q Q N A R L	A A K L T T T G Y K I
UniRef90_S6CEP3	D E D E N N Y A T V I V	S E D Q Q L S L A I	G G K E G Q Q N A R L	A A R L T T T G W H I
UniRef90_UPI0003B3DA72	D E E K H S M D L A V	A E D K L A Q A I	G G K G G Q Q N V R L	A A S R L T T T G W Q I
UniRef90_UPI000378C7DE	D E D K G T M D I A V	S E D N L A Q A I	G G R G G Q Q N V R L	A S E L T T T G W V I
UniRef90_F2NP18	P E T S G H A A V T V	A K D Q H S L A I	G G K A G Q Q N V R L	A A S K L T T T G Y E I
UniRef90_C1F696	D L S E K H L E V I V	D D D T Q Q L S L A I	G G K K G Q Q N V R L	A A K L T T T G W K I
UniRef90_F7RV45	D E E T H T M E V A V	E E G N L A Q A I	G G R N G Q Q N V R L	A S Q L T T T G W E L
UniRef90_E4LA16	E E E N S Y V V V	P D D Y Q L L S L A I	G G K A G Q Q N A R L	A A K L T T N W K I
UniRef90_M1PJ4	D E E A K T L V V V	P N D Q Q L S L A I	G G R Q G Q Q N V R L	A A S R L T T T G W R I
UniRef90_Q31GK6	D E D K H T M D L A V	D D E Q Q L S Q A I	G G K N G Q Q N I R L	A T E L T T T G W E L
UniRef90_UPI000376C249	D E E K Q S I E V A V	S E D Q Q L A I A I	G G K R G Q Q N V R L	H A S D L T S G W N I
UniRef90_R6JNJ3	D E E A R S C R A T V	P D D Q Q L S L A I	G G N K G Q Q N V R L	A A K L T T T G W K I
UniRef90_C6XRW9	D E D E E R V E V V	E E S Q F P L A I	G G R R G Q Q N V R L	A S Q L T T T G W Q I
UniRef90_D7BF14	D N E T K R A K V V V	S K D Q H S L A I	G G K A G Q Q N V R L	A A S K L T T T G Y E I
UniRef90_D4K1X6	P G E T R S C R V T V	S D D Q Q L S L A I	G G N K G Q Q N A R L	C A R L T T T G Y N I
UniRef90_M1Z245	N K D E K Q M T I V	A D D Q Q M S L A I	G G K K G Q Q N V R L	A A K L V K W K I
UniRef90_R6D3J2	P T G A K A C K A I V	P D S Q L L S L A I	G G N K G Q Q N V R L	A A R L T T T G W K I
UniRef90_B5JRQ9	D E D N N S M D L A V	T N E K L S Q A I	G G R G G Q Q N I R L	A S E L T T T D W Q I
UniRef90_F0JCT8	D E E E A L E V V C	P D D Q Q L T L A I	G G R K G Q Q N V R L	A A K L L T T G W K I
UniRef90_UPI0003716537	D E A S N T I E V A V	S E E N L A I A I	G G R R G Q Q N V R L	A S E L T S T G W R I
UniRef90_V4YH16	D E E R G A M D V V V	S E E N L A I A I	G G R R G Q Q N V R L	A S E L T S T G W R I
UniRef90_A6FB67	D E D Q H S M D I A V	E Q E N L A Q A I	G G R N G Q Q N V R L	A S Q L T T T G W E L
UniRef90_R5XMJ2	E E E K F A Q V I V	P D D H L S L A I	G G K A G Q Q N A R L	A A K L T T T N W K I
UniRef90_U5NA70	D E E R H C A M D V V	D E T H L A V A I	G G R G G Q Q N V R L	A S E L T T T G W K I
UniRef90_UPI00035C5D32	D E D G K S L E V I V	P D D Q Q L S L A I	G G K G G Q Q N V R L	A A M L T T T G W K I
UniRef90_R5CDD9	D P E E K S A K V V V	P D D Y Q L L S L A I	G G R E G Q Q N A R L	A A R L T T T G Y K I
UniRef90_H8L3B5	D E D K H S M D I A V	A E D K L S Q A I	G G R G G Q Q N V R L	A A S K L T T T G W Q I
UniRef90_G7V9V5	L E Q E R T V K V Y V	R P D Q L S L A I	G G K A G Q Q N V R L	A A R L T T T G W K I
UniRef90_E3CZK5	L E Q E K A L R V F V	R P D Q L S L A I	G G K A G Q Q N V R L	A A R L T T T G W K I
UniRef90_UPI00036FF8CE	D E D S H S M D V A V	D E E N L A Q A I	G G K G G Q Q N V R L	A S E L T T T G W T I
UniRef90_R6QND1	V E E K S A Q V V V	P D D Y Q L L S L A I	G G K E G Q Q N A R L	A A R L T T T G Y K I
UniRef90_G4T3D4	D E E K H S M D L A V	S S D N L S Q A I	G G R G G Q Q N V R L	A T E L T T T G W E I
UniRef90_R6TCF5	D E E K V C R V F V	D A D Q L S L A I	G G K E G Q Q N A R L	A A R L T T T G F K I
UniRef90_C8PDC5	E N D D K S A L V I V	P D D Y Q L L S L A I	G K K G Q Q N V R L	A A R L T T E Y K I

UniRef90_Q2G5E5	M T E A E
UniRef90_UPI0003640780	
UniRef90_A6LSQ1	K S K S
UniRef90_B4UHF8	N S E S
UniRef90_R8AML6	M T E T D
UniRef90_C5RBB9	K P E S A
UniRef90_Q0AFJ2	M T
UniRef90_Q2LWU5	K S E S
UniRef90_UPI00035ED26B	L T E
UniRef90_R6T8M2	K P Q S
UniRef90_D6SK65	Y T E S
UniRef90_I7LEZ6	R P E S E
UniRef90_UPI0003B50E34	M T V A D
UniRef90_W6RZ21	K S
UniRef90_Q01W32	K S E E E
UniRef90_UPI000367E57A	R
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UniRef90_H0UJT0	Q S
UniRef90_UPI0002D78813	K
UniRef90_UPI0004795670	K P E S A
UniRef90_V1CQL6	K S I S A
UniRef90_H6LJW9	K S
UniRef90_U2FRF9	M T V E D
UniRef90_S4X0R2	H S L T E
UniRef90_D7GU75	K S E T
UniRef90_R8VT34	A P A S
UniRef90_E1YER3	Q S E S
UniRef90_R7M8P6	K S E T
UniRef90_R6G7C6	K S E S
UniRef90_UPI0003654B3F	Q P D S
UniRef90_A0A059FCT7	I T E T A
UniRef90_B6FZB4	K S E S
UniRef90_H7CX85	K S K S
UniRef90_D8JZQ4	K S V S D
UniRef90_C7LR13	F T N T
UniRef90_R5RZC1	K C E
UniRef90_A9AV46	K S A S
UniRef90_Q0FDZ9	M T E T D
UniRef90_R6AN15	K S H S
UniRef90_UPI000374E82E	M T T G E
UniRef90_UPI0003664720	M T E E A
UniRef90_D4MAT3	
UniRef90_K7AS80	M T
UniRef90_A8F3W1	K P
UniRef90_A0P4S4	L T E E E
UniRef90_UPI000262CDEB	M S E E
UniRef90_H1LJG6	K S E T E
UniRef90_B4CYQ1	E Q D
UniRef90_A1ST44	M T
UniRef90_E5Y3F2	F T E T
UniRef90_B6BVK1	M T
UniRef90_E8QYY6	M T A E E
UniRef90_R5R037	K S V S E
UniRef90_R5LK96	K S E S
UniRef90_R6J3J9	L T E
UniRef90_K0C2P2	M S E T
UniRef90_E4KYI3	K S
UniRef90_A1WXV2	M T A E E
UniRef90_UPI0003B739C0	K S E S
UniRef90_S6CEP3	K P Q S
UniRef90_UPI0003B3DA72	M T Q
UniRef90_UPI000378C7DE	M T E E A
UniRef90_F2NP18	K
UniRef90_C1F696	K S E E E
UniRef90_F7RV45	M T V A D
UniRef90_E4LAI6	K S E S
UniRef90_M1PJD4	K S E
UniRef90_Q31GK6	M S E T D
UniRef90_UPI000376C249	M T
UniRef90_R6JNJ3	K P E S
UniRef90_C6XRW9	T T E A
UniRef90_D7BF14	
UniRef90_D4K1X6	R P E S
UniRef90_M1Z245	K G E S E
UniRef90_R6D3J2	G P E S
UniRef90_B5JRQ9	M D E
UniRef90_F0JCT8	F T E S
UniRef90_UPI0003716537	M S T G E
UniRef90_V4YH16	M T A D E
UniRef90_A6FB67	M T V A E
UniRef90_R5XMJ2	K S E S
UniRef90_U5NA70	L D L A E
UniRef90_UPI00035C5D32	K S E T
UniRef90_R5CDD9	K D E T
UniRef90_H8L3B5	M T Q
UniRef90_G7V9V5	K T
UniRef90_E3CZK5	K
UniRef90_UPI00036FF8CE	M T
UniRef90_R6QND1	K S E S
UniRef90_G4T3D4	M D A S
UniRef90_R6TCF5	K
UniRef90_C8PDC5	K P E S

UniRef90_UPI00035F1440
UniRef90_L0I010
UniRef90_C2KV06
UniRef90_A8H741
UniRef90_A0A023X2Y6
UniRef90_H3NEZ8
UniRef90_Q83BS0
UniRef90_UPI000364F2CF
UniRef90_UPI000381A3CA
UniRef90_I1XP94
UniRef90_A3ZU79
UniRef90_W4LR97
UniRef90_F4HF91
UniRef90_UPI000380E308
UniRef90_F2K4F4
UniRef90_C2BHN0
UniRef90_D7CWW1
UniRef90_R7IFA8
UniRef90_E0NM49
UniRef90_D0WDY5
UniRef90_A6GK81
UniRef90_B2GBN4
UniRef90_G9RTI5
UniRef90_E0QIB7
UniRef90_X2GZI6
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P K D F G R V A A G A A K Q V V T Q R I R E A E K E K Q D E M L V G L L A M E D
P K T F D R S A V T T G K Q T A H Q E L N E S Y R D T L Y N E Y K N K I G E I V
P P N A G R I A A Q T A K Q V I L Q R L R H E A E H D K E G D I V T G L V Q R I E
N E A F G R Q A A Q T A K Q L L Q R I R D A E R Q H E N I V T G T V K R M E
I E S F G R R A I L A A R Q T L V S K I L E L E K D R V G E I I T G E V Y Q V W
P K D F E L S A V Q T G K Q T A R Q S L S E I L Y E K E K M G E I I I G Y Y Q R E R
N E P F G R I S A Q M A K Q I I I Q K I R E A E R E K I Y Q Q F I E Q V H G I V
P P G F G R I A A Q T A K Q V I L Q K I R E K E K E A I I T D Y K V R I G T I V
P H D F G R V A A Q V C Q V V T Q K I R E A E R D K Q D E L A V G I L A M E D
F A S F G R R A I L N L R Q A L S S K I M E L Q K E R I G Q L L S A E V Y Q V W
P K D F G R I A A Q V F K Q S I N Q A L R S I E R E R M V L S E F K D R V D H I V
F H K F G R R A I L T L Q R L N L A G Q I M E L E K D R I Y G D V V T G E V Y Q I W
N E P F G R I S A Q Q A K Q N L I Q K I R E A E R R K V Y D Q F I A E V H G I V
L T D F G R I A T R K A E E T I K N E I I A K R R Q K I L E R Y Q S R V G Q I I
T T P L G R I A A Q M A K Q V I F Q K V R E A E R D T V F N E Y N H R A G E R V D
P K D F A R T A A N A A K Q V I M K M V R E E F K R Y E N E I I Q G T V R E V L
V S E F G R R A V M T A R Q T F R Q R I R D I E K E Q V Y Q E Y T E L I G D I V
F E K F G R R A I L T L R Q T L Q S K I Y D K F E K E L E G E L V S G E V Y Q T W
C E E F R R N A I Q N A K Q I V I Q K V R E A E R E K E N D L L T G L I R R I D
T R K F G R I A A Q T A K H V I R Q G I R E V E R E R Q H E M V T A G I S R I D
Q E M Y G R R A Q D A K Q V I L Q R L R D A E E R H E T I V T G T I Y K R M D
F E D F G R R A I L N L R Q T L T S K I L E L Y K E K I G E I I V S G E V Y Q I W
I E F G R I A A Q T A K Q V I V Q K I R V G E I I S G T V V K K V T
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S I E F G R I A A T Q A K Q V I I Q K I R E A E R S R I G E M I T G E V K K S T
S I Q F D R I A T Q T A K Q V I E Q K V R E A E R D R S G E M L S G I V K K V N
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S E E F S R R A A K S A K G T I V Q K I R E E E K N K E H E I I T G I V Q R I D
I A D F G R A A V L A K N V M K Q K I R E A E K L A V Y E E Y C D K V E M I
P K E A S R L V V Q H T K Q E V L R Q Q I F E E F S K R V G D L I T G T V L Q M T
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290 300 310 320
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N E A D Q A T T V I V P D E Y Q L L S L A I G G K R D G Q Q N A R L A A K L L T T G W K D D I
D E A E K E V E J V V V P S E E F Q L L S L A I G G K R D G Q Q N A R L A A S Q L L T T T G L D R I
U P I 0 0 0 4 5 E 6 D 1 0 D E K E K V A R V V V D K S S Q L L S L A I G G K D D A G Q Q N A R L A A S K L L T T T G G Y K I I
U N I R E F 9 0 M 1 E 4 K 3 D Q V K K E S R V V V D K S S Q L L S L A I G G K D D A G Q Q N A R L A A S K L L T T T G G Y K I I
U N I R E F 9 0 G 6 C 5 F 2 E D D G T A K V L V P S E S Q L L S L A I G G K K N E G Q Q N A R L A A A R L L T T T G T W K I V
U N I R E F 9 0 R 5 W 3 8 3 D E D K K E A K V I V P D D E K L L S L A I G G R R N G G Q Q N A R L A A A R L L T T T G Y R I I
U N I R E F 9 0 E 3 C E I 5 D E D S K T H A L V V V P D D N K L L S L A I G G R R N G G Q Q N A R L A A H L L T T T G Y R I I
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U N I R E F 9 0 V 8 U Q 4 4 D E D K R H A M D V V V P D E E N L L S L A I G G R R N G G Q Q N A R L A A S E L L T T T G W Q I N
U N I R E F 9 0 T 1 C K P 2 D E D S H S M D I A V D E E N R L L S Q A I G G R R N G G Q Q N A R L A A S Q L L T T T G W E I N
U N I R E F 9 0 M 4 R 9 L 1 D E D S H S M D I A V P S A L L S Q A I G G R R N G G Q Q N A R L A A T Q L L T T T G W T I N
U N I R E F 9 0 S 5 R J 1 E E D S K R A T V V V P D D N K L L S L A I G G R R R G G Q Q N A R L A A H L L T T T G Y R I I
U N I R E F 9 0 S 3 A P C 0 D E E T R H A T V V V P D D D Q L L S L A I G G K E G Q Q N A R L A A A R L L T T G L H I I
U N I R E F 9 0 R 5 T 1 M 5 D P K K Q E A L V V A D D D N F L S L A I G G K K G M N A R L A A S K L L T T H Y K I I
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U N I R E F 9 0 I 3 D 5 Q 6 E D G E T A R V L V D E S Q L L S L A I G G K S G Q Q N A R L A A A K L L T T G M R I V
U N I R E F 9 0 U P I 0 0 0 3 6 3 0 2 9 1 D I D P R S A L V V V P D K K L S L A I G G R R K G N A R L A A H L L T T T G Y K I I
U N I R E F 9 0 K 1 Y R U 4 D H E N K S L Q V F V D D K S Q F L S L A I G G K K G H N A R L A T S K L L T T G Y K I I
U N I R E F 9 0 G 0 G E 6 7 D R N K K H A L A V V K D N Q L S L A I G K Q G L N A R L A N R L L V D W N I I
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U N I R E F 9 0 X 8 A R U 5

D D K E K K A K V F V N E D Q Q S L A I G G R S G G Q Q N V R L A A S R L L T T G Y E L I I
D E E R H V M D V V V P D E D N A L S L A I G G T A N G G Q Q N V R L A A S E L L T T T G W Q I N
U N I R E F 9 0 E 7 R X 2 2 D E E K M A T V V V P D E D E A L S Y A I G G A N G G Q Q N V R L A A S L L T T T G W K I I
U N I R E F 9 0 R 6 U E Y 0 D S D K K Q A L A I V S D D Q D F L S L A I G G R R N G G Q Q N A R L A A N K L L C D W S I I
U N I R E F 9 0 H 7 E I G 4 E E A R K T F V I V Q D E E K D S K A I G G R R N G G Q Q N A R L A T S Q L L M G W D I V
U N I R E F 9 0 B 2 U Q Q 4 D E D A K T M N I A V E E G N S Q A I G G R R N G G Q Q N A R L A S Q L L S G W E I V
U N I R E F 9 0 E 0 W T F 3 D E F D K V A T V V V A N D Q Q L S L A I G G R R N G G Q Q N V R L A A K L L T T T G W K I I
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U N I R E F 9 0 E 8 L M 6 5 E E G S T A R V L V A E N S Q L L S L A I G G K N G G Q Q N A R L A A K L L T T G M R I V
U N I R E F 9 0 U 7 V C V 1 E E S E R F A Q V I V P D D D Q L L S L A I G G K S G G Q Q N A R L A A A K L L T T N W K I I
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U N I R E F 9 0 K 2 C 1 V 6 D E E K K A E I I V S E Q Q L L S L A I G G K S G G Q Q N V R L A A A K L L T T G F G I I
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U N I R E F 9 0 U P I 0 0 0 3 7 A 7 C 2 E D E D H K R V L L T V S S E E L S L A I G G R K G Q Q N A R L A T S R L L T T G Y D I V
U N I R E F 9 0 U P I 0 0 0 1 7 4 5 B 6 4 E D N K S A T V I V P D D E K L S L A I G G K N G Q Q N A R L A A K L L T T G W K I I
U N I R E F 9 0 R 7 K 7 V 1 P K L G R A I V L V P D D D Q L L S L A I G G R R N G G Q Q N A R L A A S K L L V G W D I V
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U N I R E F 9 0 J 4 U 1 1 S A E E K K A L I I V P D D D Q L L S L A I G G K D S W Q Q N I K L A A S K L L T T G Y E I V
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U N I R E F 9 0 G 9 W I E 4 D E D S R S M D I A V N E D D Q L L S L A I G G R R N G G Q Q N I R L A A S K L L V G W D I N
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U N I R E F 9 0 T 0 R G 4 8 N E K D K T A T V T V P Q D N Q L L S L A I G G K G G Q Q N V R L A A A K L L T T G W K I I
U N I R E F 9 0 K 2 C F Y 3 E E R H A M D I A V E D E S A L L S Q A I G G K G G Q Q N I K L A S E L L T T K Y K I I
U N I R E F 9 0 K 2 G 1 D 5 D E A K K E A L V V V P N D N L S L A I G G K K G L I K L A S E L L T T K Y K I I
U N I R E F 9 0 R 5 W 2 3 5 D Q E K R Q A L A I V E E S Q Q F L S L A I G G K Q G Q Q N V R L A A N K L L C D W S I I
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U N I R E F 9 0 R 5 P X 3 3 D E D A H A M D I A V A E D N L S Q A I G G R G G Q Q N I K L A S M L L T T G Y T I I
U N I R E F 9 0 F 5 I U Y 2 N E E E K K A E V F L K P E E V S L A I G G K G G L N I K L A A C M L L T T G Y T I I
U N I R E F 9 0 U P I 0 0 0 4 4 2 1 5 9 2 D E E N H K A E V F L K P E E V S L A I G G R G G L N I K L A A C M L L T T G Y T I I
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U N I R E F 9 0 R 5 P C K 7 L S N D R G V T V L V P D D D Q L L S L A I G G K K G Q Q N A R L A A A K L L T T N F S I I
U N I R E F 9 0 R 5 P 2 Y 1 N E E R R J A R V V V N E D D Q L L S L A I G G K K G Q Q N S R L A A A K L L C G I I
U N I R E F 9 0 F 8 1 G 1 D S N K Q E A L A I A D G E D F S L A I G G K K G Q Q N V R L A A S R L L T T R F K I I
U N I R E F 9 0 U 2 R A 6 9 D E N E K K A E V F L R P E E V S L A I G G K G G Q Q N I K L A S M L L T T T Y V I I
U N I R E F 9 0 R 5 Y P 3 7 D E E N R K A D V Y L R P E E V S L A I G G H G G Q Q N I K L A S M L L T T E Y T I I
U N I R E F 9 0 R 5 A Z B 7 E D T K T A D I I F I A N D D Q L A R A I G S A G G Q Q N V R L A A S D L L T T G Y R I I
U N I R E F 9 0 R 5 F D M 7 D E K E K H S V D I A V E E R N L S Q A I G G R N G Q Q N V R L A S K L L L K W E I I
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U N I R E F 9 0 R 5 D T A 4 E A R K N D G L V V V P D D Q L L S L A I G G K K G Q Q N A R L A A V K L L T T G Y H I I
U N I R E F 9 0 R 7 G 7 E 2 D K E N N Y A T V V P D D D Q L L S L A I G G K K G S N I K L A A R L L T T K Y H I I
U N I R E F 9 0 F 1 T 4 Q 6 D A E E R N A L V I V N D D N L S Q A I G G K K G S N I K L A A S K L L T T K Y H I I
U N I R E F 9 0 R 7 I G J 0 D R R E R A K V L V P E D N Q L S L A I G G N K D G Q Q N A R L A A R L L T T G W K I I
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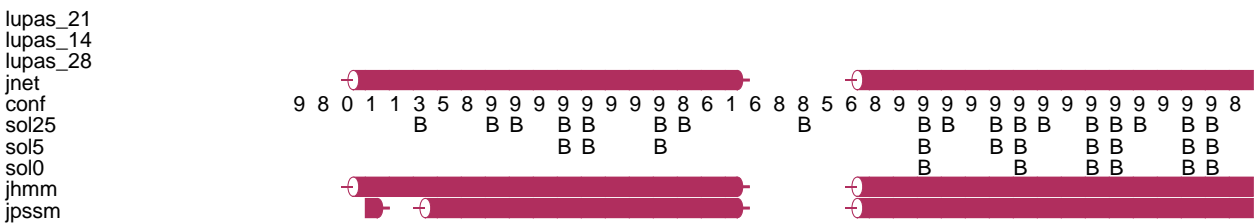
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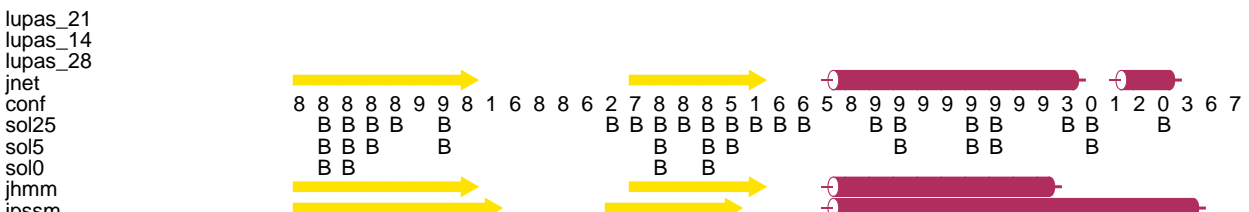

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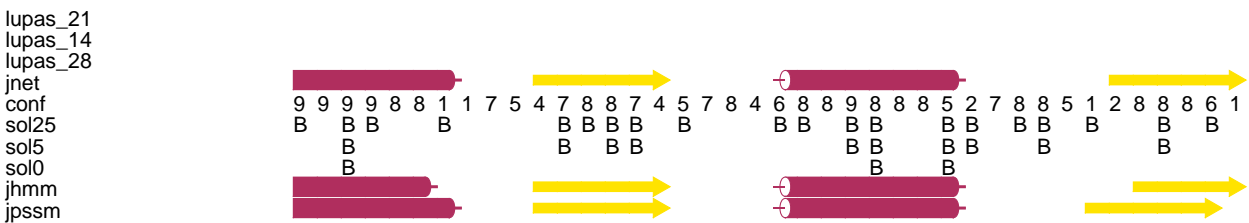
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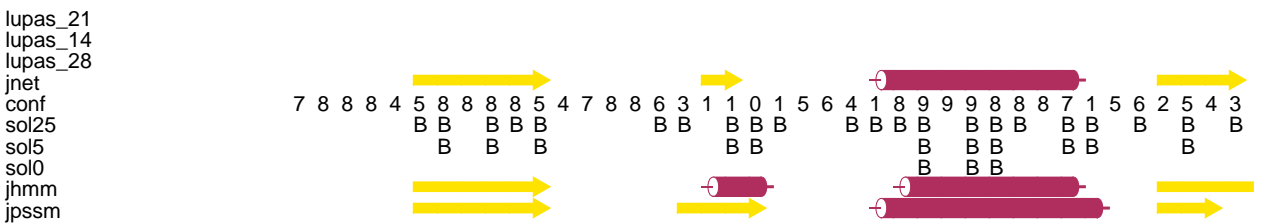
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