

QUERY	1	10	20	30	40
UniRef90_R8BL20	P T L A I	D S V E V E T N T T	V L A D E F I	A H R L G L I P L Q S M D I E Q L E	
UniRef90_M7SJH4	P I M A I	D L V E V E A N T S	V L A D E F I	A H R L G L I P L Q S K N I V D D V L	
UniRef90_L2G2G0	P T I A I	D L V E E I E P A N T S	V L A D E F I	A H R L G L I P L Q S R E I D Q M N	
UniRef90_Q6C2S4	P T L A I	D L V E E I S T N T S	V L A D E F I	A H R L G L I P L Q S K D I V N S L L	
UniRef90_W3X1N1	P T V A I	D L V E E F H V N T S	V L A D E F I	A H R L G L I P L Q S Q D I V N D L E	
UniRef90_L8FZL7	P T M A I	D L V E E V E A N T S	V L A D E F I	A H R L G L I P L Q S R D I K D M M	
UniRef90_W6MG5	P T L A V	D L V E E I K I N T S	V L S D E F I	S H R L G L I V P P L E S E D I I D K L K	
UniRef90_W1QGP6	P T L A I	D L V E E I L V N T S	V L A D E F I	S H R L G L I V P P L T S D G I V D K L Q	
UniRef90_UP1000441A425	P I I A I	D W V Q I D A N S S	V L H D E F I	A H R L G L I V P P L N S K H C D D M E F	
UniRef90_B6QC30	P T V A I	D I V E E V E V N T S	V L P D E F I	A H R L G L I V P P L N S K G V V D D L L	
UniRef90_R7Z1Y8	P T L A I	D L V E E V E E N T T S	V L A D E F I	C H R L G L I V P P L N S R G C E D V A	
UniRef90_K2R708	P T I A M A	D L V E E V E E K N T S	V L A D E F I	A H R L G L I V P P L N A E G I I D Q L L	
UniRef90_F7VP43	P T I A I	D L V E E I E A N S S	V L A D E F I	A H R L G L I V P P L Q S L D V D K L L S	
UniRef90_KOKH51	P T L A I	D S V E I E T N T S	V L A D E F I	A H R L G L I V P P L D S T N I D K L I	
UniRef90_U4L4V0	P T I A I	D L V E E I E T N T S	V I P D E F I	S H R L G L I V P P L D S K D I V D E L N	
UniRef90_J5K218	P T V A I	D L V E E I E P N T S	V L A D E F I	A H R L G L I V P P L T S D E V D R M T	
UniRef90_A7SI64	P T I A I	D W V Q I E N N T S	V L H D E F I	A H R L G L I V P P L D S Q G I V E N L L	
UniRef90_A5E4Q9	P T L A I	D L V E E I D V N T S	V L A D E F I	A H R L G L I V P P L C S K G V V D D L L	
UniRef90_E4ZP4	P T L A I	D V V E E V L D N T S	V L A D E F I	V C H R L G L I V P P L N S K N A D S L E	
UniRef90_S3CW72	P T M A I	D L V E E I A A N T S	V L A D E F I	V A H R L G L I V P P L V S E D V I E E M K	
UniRef90_C1GI99	P T V A I	D V V E I E S N T S	V L P D E F I	V A H R L G L I V P P L E S T Y A D Q L E	
UniRef90_C4R7L2	P T L A I	D L V E I K M N T S	V L A D E F I	S H R L G L I V P P L V S S D S I D E L S	
UniRef90_A0A24J7R0	P T I A I	D L V E I D I N T S	V L A D E F I	A H R L G L I V P P L V S T N C D E M R	
UniRef90_G3B2S0	P T L A I	D L V E I D V N T S	V L A D E F I	A H R L G L I V P P L T S D D V D R M Q	
UniRef90_U1GDV9	P T V S I	D Q V Q I L S N T S	V L P D E F I	A H R L G L I V P P L D S R G C E D M L	
UniRef90_E9G1A5	P T L A I	D W V Q F E A N S T	V L F D E F I	A H R L G L I V P P L T S D E V I E K M Q	
UniRef90_J3PCT0	P T I A I	D N C E I K E N T S	V L A D E F I	A H R L G L I V P P L D A R G V A D L N	
UniRef90_C5MDV1	P T L S I	D L V E I E K N T S	V L A D E F I	S H R L G L I V P P L V S T N C D E M R	
UniRef90_UP1000455EB19	P T V A I	D M V E V Q A N T T	V L P D E F I	A H R L G M V P P L T S D D V D K L L	
UniRef90_C3Z918	P T L A I	D W V Q L E A N S S	V L H D E F I	A H R L G V L I P P L T S D E V D K L L R	
UniRef90_UP10002654980	P T I A I	D W V E I Q A N S S	V L H D E F I	S H R L G M V P P L T S D D V D K L L R	
UniRef90_S2K833	P T V A I	D M V E I E T N T T	V L A D E F I	A H R L G M V P P L T S D D V D K L L R	
UniRef90_W7HVS8	P T L A I	D L V E V I I G N T S	V L P D E F I	A H R L G M V P P L T S D D V D K L L R	
UniRef90_F1LC10	P T M A I	D W V Q I E A N S T	V L H D E F I	A H R L G M V P P L T S D D V D K L L R	
UniRef90_F8NUW3	P T I A I	D I V E I E A N T T	V L P D E F I	A H R L G M V P P L V S A N C C E E I R	
UniRef90_O97183	P T L A I	D W V Q L E A N S T	V L P D E F I	A H R L G M V P P L I T S D D V D K L L R	
UniRef90_T2MGQ0	P T I A I	D W V Q I E N N T S	V L H D E F I	A H R L G M V P P L T S D E V D K M C	
UniRef90_G6CJX9	P T M A I	D W V Q L E A N S T	V L S D E F I	A H R L G M V P P L I S D D V D K L L R	
UniRef90_B6K2N9	P T V A I	D L V E I S V N T S	V M P D E F I	A H R L G M V P P L N S N N I D K F C	
UniRef90_Q54DH7	P T M C	D L V E F E S N N S	V L C D E F I	A H R L G M V P P L V S D N I D K F C	
UniRef90_H6C6M3	P T I A I	D L V D I I T N S S	V L P D E F I	A H R L G M V P P L A S K G V N L N Y	
UniRef90_B6GWS8	P T L A I	D L L I E I E S N T S	V L P D E F I	A H R L G M V P P L N S Y N C C D D L	
UniRef90_UP10001CBBF53	T I A I	D W L Q I E A N S S	V L H D E F I	A H R L G M V P P L T S D E V D R M Q	
UniRef90_G4N9Z3	P T V A I	D N C E I K E N T S	V L A D E F I	S H R L G V L I P P L T S D E V D R M Q	
UniRef90_M0S369	P T I A I	D L V E I E V N S S	V L A D E F I	A H R L G V L I P P L T S D D A M S M R	
UniRef90_D8QNS1	P T L A I	D L V E I E A N S S	V L N D E F I	A H R L G V L I P P L T S D K A M E M R	
UniRef90_UP1000359D8F2	P T I A I	D W V Q I E A N S T	V L F D E F I	S H R L G V L I P P L T S E G V I E K M Q	
UniRef90_L0PEQ4	P T V A I	D L V E I E I N T S	V L A D E F I	T H R L G M V P P L D S A N C C D E M R	
UniRef90_UP10004449F8	P T I A I	D M V E I E T N T T	V L P D E F I	A H R L G M V P P L V S A N C C D E M R	
UniRef90_C1BV58	P I M A I	D W V Q L E S N S T	V L S D E F I	A H R L G M V P P L T S D D V D S M Q	
UniRef90_A9SHD1	P T L A I	D L V E I E S N S S	V L N D E F I	A H R L G M V P P L V S D R A M E M R	
UniRef90_W5NJ36	P T M A I	E K V F V Y N N T S	V Q D E I L	A H R L G M V P P L K A D P R L F E	
UniRef90_F0ZT58	P T M S I	D L V E F E A N N T S	V L C D E F I	A H R L G M V P P L V S D N V D K F N E	
UniRef90_W5KXU0	P T M A I	E K V F I Y N N T S	V I Q D E I L	A H R L G M V P P L K A D P R L F E	
UniRef90_H2YE9A	P T L A I	D W I Q I E E N S S	V L N D E F I	S H R L G M V P P L T S D D V D K I L	
UniRef90_B3RV95	P T L A I	D W V Q F V N N T S	V L P D E F I	A H R L G M V P P L T C D E V D R L L Q	
UniRef90_K5W2E9	P T V A I	D M V E I E I N T T	V L T H R L G Q I P P L L S S N N C D E I L		
UniRef90_UP10003C27140	P T M A V	E K V F V Y N N T S	I V Q D E I L	A H R L G M V P P L Q A D P R L F E E	
UniRef90_UP100034F60CB	P T M A V	E K V V Y Y V Y N N T S	I I Q D E I L	R V D P R L F E E	
UniRef90_J3JZ55	P T L A I	D W V K L E A N S T	V L S D E F I	A H R L G M V P P L Q S D E V Q R L L Q	
UniRef90_F4P8K9	P T V A I	D L V E F E S N S S	V L T D E F I	A H R L G M V P P L N S E Q V G T L T	
UniRef90_A0A016VXZ2	P T I A I	D W V Q I E S N T S	V L H D E F I	P F V S D T V D D M A	
UniRef90_I1G6S9	P T L A I	D W I H L I A N S T	V L H D E F I	T S S D G V D K M Q	
UniRef90_U9U469	P T M A I	E K V F I Y D N T S	V L Q D E V L	I K A D P D E F D	
UniRef90_B9HS44	P T I A I	D L V E I E V N S S	V L N D E F I	A H R L G M V P P L T S E R A M G M R	
UniRef90_V2XDD5	P T I A I	D L V E F E T N T T	V L P D E F I	A H R L G M V P P L V S T N C C D D M R	
UniRef90_R7TNL5	P I I A I	D W V Q I N A N T T	V L C D E F I	A Q R V G L I P P L A S D D V D K M Q	
UniRef90_UP1000265762B	P T M A I	D W V Q L E A N S S	V L H D E F I	A Q R V G L I P P L T S E E V E H M Q	
UniRef90_H3E9U3	P V M A I	D W I Q I E S N S V	V L D E F I	A H R L G M V P P L T S S E N I E E M V	
UniRef90_B8PBS2	P T V A I	D M V E I E T N T T	V L P D E F I	A H R L G M V P P L V S S N C C D E M R	
UniRef90_R4X6D5	P T I A I	D L V E I V N N N T S	V L A D E F I	A H R L G M V P P L H S S E G I D S L V	
UniRef90_C4WTK3	P T L A I	D W V Q L D C N S T	S D E F I	A S R I G L I P P L T S D E V D R L L Q	
UniRef90_A2ATX1	P T M A I	E K V F I Y N N T S	I Q D E I L	K A D P R L F E E	
UniRef90_T1G647	P T L A I	D W I Q I E S N S T	V L C D E F I	A Q R I G L I P P L T S D D V D K M Q	
UniRef90_A0A024GLH5	P T M A I	E Q V Y I W N N S S	I I Q D E V L	L V D P R L F E F Q	
UniRef90_A8PAK3	P T M A I	D W V Q I E S N S S	V L H D E F I	A H R L G M V P P L T S D S V D Q M Q	
UniRef90_K5XBU6	P T I A I	E H V V Y V W N N T S	V L H D E F I	S A D P S T L D F	
UniRef90_F7B0W1	P T M A V	E K V F V Y N N T S	I M Q D E V L	P I T A D P R L F E	
UniRef90_W4K3P5	P T V A I	D M V E I H A N T T	V L P D E F I	A H R L G M V P P L V S T N C C D E I R	
UniRef90_G4LUY0	P T L A I	D W V Q I E D N N T M	N D E F I	T C D N V D K M T	
UniRef90_W2RKY2	P T L A I	E K V Y V E V Q N N T S	V I A D E V L	F R G S I S G L K W	
UniRef90_F4Q3D5	P T M A I	D L V E F Q T N T S	V L C D E F I	P L T S H K V I E S F N	
UniRef90_E1ZQP2	P T M A I	E H V Y I V N N T S	V I Q D E V L	P L K V D P R L F Q	
UniRef90_U9TS65	T I A I	D M V Q F D L N T S	V L A D E F I	D S T E A D K I K	
UniRef90_U5HCM2	T L A I	D Q V Q I E E N T S	V L P D E M I	W S E G I D R R N	
UniRef90_M2XDV5	P T M A I	E Y V L I S D N T S	V I H D E F I	Q A D P D G F Q D	
UniRef90_Q5CSH3	P T L A I	D L V T M I D N T S	V L H D E F I	D S T N I R D F N	
UniRef90_S8FH34	P T V A I	D L V E V E T N T S	V L P D E F I	V I S H N C E E M R	
UniRef90_S2JI72	P T M A I	E K V Y Y V M N N T S	V I Q D E V L	K A D P L E	
UniRef90_F9WWV9	P T I A I	D L V E V E A N T S	V L A D E F I	S T K G V I E E M D	
UniRef90_K5W688	P T V A I	D I V E I D S N T S	V L P D E F I	V S T N C C D E M R	

QUERY	50	60	70	80
UniRef90_R8BL20	Y S R D C F C E D H C D K C S V V L T L Q A F G E S E S T T N V Y S K D L V I V			
UniRef90_M7SJH4	Y T R D C D C D Q Y C E Q C S V R L T L H A K C Q S D E V M K V Y A R D L V V D			
UniRef90_L2G2G0	Y S R D C D C D Q S C G R C S V T L T L H A R C T S D E V M K V Y A R D L I V G			
UniRef90_Q6C2S4	Y S R D C V C D E Y C D D K C S V V L M L D A T C T G D D T M D I Y S R D L M V H			
UniRef90_W3X1N1	M P R D C E C D G H C D D K C S V V L T L H A K C C D S D E I M K V H A N Q F E I S			
UniRef90_L8FZL7	Y S R D C T C E E Y C D D Q C S V V L E L K A R C D S D E T M N V Y S T A L V P T			
UniRef90_W6MG55	Y T R D C T C E E D H C E K C S V T L E L R A H C D S D E T M N V Y S S H L T I V			
UniRef90_W1QGP6	Y T R D C T C E E D F C P E C S V E F S L D V R C C N E D Q T R H V T S R D L I S N			
UniRef90_UP1000441A425	Y S R D C T C D E F C P E C S V R L T L H A R C Q A D D V M K V Y S R D L V V T			
UniRef90_B6QC30	Y N R D C T C E S W C S R C S V R L T L H A R C T G I D V M T V Y A R D L V V S			
UniRef90_R7Z1Y8	Y S R D C D C D E Q Y C E N C S V V L L T L N A R C T G D E V M T V Y A R D L L V S			
UniRef90_K2R708	Y T R D C D C D E Y C E H C S V T L N L H A K C C T G D D I M Q V C A R D L V P V			
UniRef90_F7VP43	Y S R D C D C D E Y C E H C S V T L N L H A K C C T G D D I M Q V C A R D L F I V			
UniRef90_K0KH51	Y S R D C T C D D Y C N K C S V E L E L K V R A D Q D S T L N V Y S K D L F I V			
UniRef90_U4L4V0	Y S R D C V C D D Q Y C E E Q C S V T L N L H A R C T S D N P M T V Y A R D L I A V A			
UniRef90_J5K218	Y S R D C D C E Q Y C E N C S V T L L T L H A K C C T G D E V M T V Y A R D L I I V			
UniRef90_A7SI64	F S R D C T C D E F C D D C C S I E F T L D V K C T D D S T R H V T T Q D L I S T			
UniRef90_A5E4Q9	Y S R D C A C C D N Y C S S K C C S V T L E L T A K C C D S D S T M N V C A S D L L K L			
UniRef90_E4ZP4	Y S R D C D C D E G Y C S D K N C C S V T L T L N A K C C T G N E I M K V Y A R D L V V E			
UniRef90_S3CW72	Y R D C D S D C C E G Y C S D K N C C S V T L T L H A R C C T G D E I M K V Y A R D L V V E			
UniRef90_C1GI99	Y S R D C D C D E G Y C S D K N C C S V T L T L H A R C C T G D E I M K V Y A R D L I I V			
UniRef90_C4R7L2	Y S R D C T C E D Y C D E C C S V V L E L S A R H E E E G T T D V Y S S S L I K V			
UniRef90_A0A24J7R0	Y T R D C D C D Q Y C E E K C C S V T L E L N A Q C C T S D A T L E I Y T R D L M V			
UniRef90_G3B2S0	Y S R D C T C D C D Q Y C E E K C C S V T L E L N A Q C C T S D A T L E I Y T R D L A K F			
UniRef90_U1GDV9	F Q R E C D C G G D C E R C A V I L E L A C K C C E R E G T M M V F A R D L I I V			
UniRef90_E9G1A5	Y S R D C T C P D F C V D C S S V E F T L D V K C C S E D V T R N V T T A D L K S T			
UniRef90_J3PCT0	Y S R D C T C E Q Y C D N C C S V T I E L N A R C C E V D D P G H V Y A K D L W V V			
UniRef90_C5MDV1	Y S R D C T C D N Y C T K C C S V T L Q L A S C C E T T M N V Y Y A S D L L K T			
UniRef90_UP1000455EB19	L L R D C T C C E E G C Q F C S I E L R L D I S C C H D N R T L E V T S N H L E V V			
UniRef90_C3Z918	Y S R D C T C A E F C A D C C A I E L T L D V K C C T D D D Q T R H V T T R D L I S S			
UniRef90_UP10002654980	F N R D C T C G C E E F C S D C S S V E L S L D D V K C C T D D D Q T R H V T T R D L L S S			
UniRef90_S2K833	Y T R D C T C S Q Y C P D C S S V E L S L D D V K C C T D D D Q T R H V T T R D L T S S			
UniRef90_W7HVS8	Y T R D C D C D G Y C E R C C S V V L T L V A K C C T G D Q N V T V Y A R D L A V T			
UniRef90_F1LC10	Y S R D C D Q C C N D F C P E C C A V E M R L S V R W D D E G T R S V T T A D L E S S			
UniRef90_F8NUW3	Y T R D C T C L S G C C Q Y E C C S V E F T L D V K C C H E N R T M E V T S N H L D V V			
UniRef90_O97183	Y T R D C D C P E F C D E E C C S V V F T L D V K C C T G S E Q T R H V T T A D L K S S			
UniRef90_T2MGQ0	Y S R D C T C M C A D F C T E E C C S V V F T L D V K C C T G D Q T R H V T T A D L K S S			
UniRef90_G6CJX9	Y S R D C D C D Q Y C N K C C S V E L S L N A K C C T G D G T M E V Y A R D L V V D			
UniRef90_B6K2N9	Y T R N C D C D Q Y C N K C C S V E L S L N A K C C T G D G T M E V Y A R D L L S Q			
UniRef90_Q54DH7	Y T R D C S C S D R C D Q Y C S V V L R L H A R C T R P G T M M V Y A R D L T V			
UniRef90_H6C6M3	T R D C D R C D D D H C E Y C S V V L R L H A R C T R P G T M M V Y A R D L T V			
UniRef90_B6GWS8	Y T R D C D C D E D H C V R C S V T L S L H A R C G S G I M S V Y A R D L I V V			
UniRef90_UP10001CBBF53	Y S R D C T C D E F C P E C C S V D F M L D V K C C T D Q T R H V T S R D L M T S			
UniRef90_G4N9Z3	Y A R D C D C D E Q Y C E E F C S V E F F L S V R C C D S D Q T L D V T S A D L Q S T			
UniRef90_M0S369	F S R D C D C A C D G C E E F C S V E F F L S V R C C D S D Q T L D V T S A D L Q S T			
UniRef90_D8QNS1	Y S R D C D C D E C D G C D Y C S I E F F T L S V K C C T S S E E T L D V T S H D L I S S			
UniRef90_UP1000359D8F2	Y T R D C T C E E F C P E C C S V E F F T L D V R C T D D D Q T R H V T T A D L I S S E			
UniRef90_L0PEQ4	Y T R D C T C D Q Y C T K C C S V Q L T L Y A K C C T S S E E T L D V T S H D L I V E			
UniRef90_UP10004449F8	Y N R D C T C T A T N C S A C C S V K L H N V A C C H E E T T R N D V T S A D L D V V			
UniRef90_C1BV58	Y S R D C T C T D F C R E C A V E F T L D V K C C H E E T T R N D V T S A D L K S S			
UniRef90_A9SHD1	L S R D C D A C D G C E Y C S V E F H S V K C C T G D Q T L D V T S L D L V S S			
UniRef90_W5NJ36	Y R N A G D E E G T D I D T Q L Q K I V K C C T R N P N H M V Y S R D I K W T			
UniRef90_F0ZT58	Y T R D C S C O S E R C D Q C S S V E F K L N V K C C S N R P I D V T S S D L I V V			
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UniRef90_H2YE9A	Y S R D C M C D D F C Q E C C S I E F Y L D V K C C T S E G T R Q V T T R D L I S S			
UniRef90_B3RV95	Y S R D C D N C O V E H C P E E F C S V E F T L D V R C C N D D Q T R H V T T R D L I S S			
UniRef90_K5W2E9	Y T R D C T C L A G C P F C S S V E F T L D M L N H V S C C N D D Q T R H V T S N H L D M			
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UniRef90_UP100034F60CB	Y R S A E E G E G T E I D T L Q F E L N V K C C T R N P P N E L Y I N H K V Y T			
UniRef90_J3JZ55	Y P R D C I C T D F C Q E C C S V E F T L D V K C C T D D Q T R H V T T A D L L K S S			
UniRef90_F4PK9	Y T R D C S C T D F C Q E C C S V E F T L D V K C C T D D Q T R H V T S R D L L I S S			
UniRef90_A0A016VXZ2	Y T R E C N C T E F C D S C C S V V F E L E L N V K C C K E E A T R S V T T A D L L S S			
UniRef90_I1G6S9	Y S R E C T C N D F C P M C A I E Y T L D V K C C N D E S T R A V T T A D L L S S			
UniRef90_U9U469	F K Q S T C E H P T D Q N T I V F K L Q K E C K R N P N H V Y S A D L I I W E			
UniRef90_B9HS44	F S R D C D A C D G C E Y C S V E F H R A K C L D Q T L D V T S K D L Y S S			
UniRef90_V2XDD5	Y T R D C T C T S Y C A Y C S I T L L N V S C C P D A V T M D I T S N H L E V Q			
UniRef90_R7TNL5	Y S R D C T C E E F C Q Y C S V E F T L D V K C C S D D D Q T R S V T S A D L I S N			
UniRef90_UP1000265762B	Y N R D C S C S V D F C T D C S C S V E F I L D V K C C T D D D Q T R H V T T A D L K S A G			
UniRef90_H3E9U3	Y T R D C T C L S W C Q F C A V E M R L N V R C C K D E Q T K V A M D V T S M H L D V S			
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UniRef90_C4WTK3	Y S R D C T C S D F C H D C S V E F N L H V K C C S E E M T R H V T T A D L L V S N			
UniRef90_A2ATX1	Y R N S E D Q E G T E I D T L Q L Q K I V K C C T R N P N H V Y S R D L E W V			
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UniRef90_F7B0W1	Y R N Q G D E E G T E I D T L Q F Q L K V K C C D S S D P N Q L Y L N H M I Y S S			
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QUERY

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	90	100	110	120
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H D R P S N F I G N P V I T D P D G Q G S L I C K L R R D Q E L K L T T C V A K K				
S F R Q N G T V G N P I M D P E G Q G S L I C K L R K G Q E L K L S C V A K K				
T T P E R P E L G K P I Y T D P A K K G I L I C K L R K N Q S L R I K C I A K K				
P E R V N Q T V G T P V I T D P D G P L I C K L R K G Q E L H I E C I A R K				
S L K A N A W V G N P I F T D E G G N G P V I C K L R K G Q E L K M C C I A K K				
N G A T G L S L G Q P V I R E V D R N G I L L C K L R K Y Q E L H V R C V A K K				
S P N T G L N L G T P V V R D P E R K G V L L C K L R K H Q E L H V R C V A K K				
N P V T S R R R D N D P N D Y V E P D D I L L V K L R K G Q E L R L R A Y A K K				
G D R A N E W V G N P V I T D P E G K G P L I A K L I K G Q E L K L T C I A R K				
G N P L N D S L G Q P V I T D P A G Q G S L I C K L K K G H E L K M K C V A K K				
A A R A N E W V G S P V I K D P N G H G A I C K L R K G Q E L K M R C I A K K				
G D R V N Q V L G S P I I N D P E E Q G Q G P L I L K L R H G Q E I K L Q C I A K K				
S Q N T H L N I G S A I I T D P E E N G V L I C K L R R N E Q E L F I R C I A K K				
E G A Q L G A P V I T D P D G Q G T I I A K L R R D Q E L K L K C C I A K K				
D G R H A T S G T P I T D P D G V G C L I A K L R R D Q E L R L R C V A K K				
N P R T S R N R E D D S R E Y M E Q D D I L L V K L R K G Q E L K L R A F A K K				
N T E L L G K P I I R D P Q N R G P L I C K L R R R H G Q E I R L T C I A K K				
S M T P N D E V G R P V I T D A D G T G S C L I C K L R R R Q G Q E L H M R C I A K K				
A V S G N G D L G S P V I T D P E E G L G T V I C K L S R R N H Q E L N I R C I A K K				
G D R A N E W V G S P V I T D A E E G K G P V I C K L S R R N H Q E L K M T C I A K K				
S G P G N L N V G E P V R R D D Y D Q G I I L L C K L R R K H Q E L R L K C C I A K K				
N G R A D S P V G R P V L S D P E Q K G V L I C K L R R K H Q E L R I T C I A K K				
Q N G S T L G D P V I R D A Q G K G S L I C K L R R R G Q E L R V R C T A I K K				
D A R P N E Y V G Q P I I R D P K G N G P L I A K L R R R G Q E L R V R C T A I K K				
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G N P P N K Y V G K P V I T D P D E N G I I F K L R R Y G Q E I R I R C I A K K				
T H T G S K L G D P V F R D P R N R G P I C K L R R K D Q E L A L T C I A K K				
P F P F Q E D F G H P V G K D P S A Q P V L I C K M R R K G Q E L R I K C I A K K				
N P R V V P V T S R R A E D E T A G D D I L L V K L R R K G Q E L K L R A F A K K				
N Q K V V P V P S R N S S D Y G E V D D I L L V K L R R K G Q E L R L R A Y A K K				
N P R V V P S M P V L Q D K D D S G V L V K L R R K G H E L K L K C I A K K				
A G A Q L G N P V I T D E G Q K G S I C K L R R R G Q E I R M K C Y A K K				
N P A C Y G R H L Q G R N A E D G T S E D I L V K L R R R G Q E I R M K C Y A K K				
D S H T G E N F G H P V G K D D V S P P V I L I C K L R R K G Q E L K L R A Y A K K				
N P V T S R N Q G E E D N E Y Y G E S N D I I L I C K L R R K G Q E L K L R A Y A K K				
D P P V T S R I K D D D T G Y G E T D E I V I V K L R R K G Q E L K L H A F A K K				
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S N S T L G Q P V L A D A R S H G P I L L K L R R K E Q E I V S L R C I A K K				
N S A V I P V S S Q V T S S N S E V I P L V K L R R Q G Q E I K L R A I A K K				
A D P R Q D G I I G Q P V I R D V N G T G P L I A K L R R Q G Q E I H L E C I A K K				
G E R I I N D K I L G D P V I T D P E N K G P L I C K L R R K G Q E V K M T C I A K K				
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D S Q V V P S I G H D P D I E N F N K G I I V K L R R K G Q E L K L R A I A R K				
D P N V I P V T S R S R Q E D S E N K N D I I L I A K L R R K G Q E L R L K C I A K K				
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P H D R I D T F G H P V G K D P N V Q P V I C K L R R K G Q E L K V R A Y A K K				
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T E R Y A K S R S A F G D E Y G Q H E D I I V K L R R K G Q E I N L K C Y A K K				
N Q S V I P V T S M V R E S D T S D D D I I V K L R R K G Q E I K L K A Y A T K				
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T D I R T P D F G H P V G K N K L G Q P V I C K L R R K G Q E E R L R K C I A K K				
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R A D E F G S P V I N D A D G N G G V I C K L R R K G Q E E R L R V C I A K K				
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QUERY G| A K E H A K W G P
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UniRef90_Q6C2S4 G| A K E H A K W S P
UniRef90_W3X1N1 G| A K E H A K W M P
UniRef90_L8FZL7 G| A K E H A K W A P
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UniRef90_F8NUW3 G| A K E H A K W S P
UniRef90_O97183 G F G K E H A K W N P
UniRef90_T2MGQ0 G F G K E H A K W N P
UniRef90_G6CJX9 G F G K E H A K W N P
UniRef90_B6K2N9 G| A K E H A K W S P
UniRef90_Q54DH7 G| G K E H A K W S P
UniRef90_H6C6M3 G| A K E H A K W A P
UniRef90_B6GWS8 G T A K E H A K W A P
UniRef90_UP10001CBBF53 G F A K E H A K W N P
UniRef90_G4N9Z3 G| A K E H A K W C P
UniRef90_M0S369 G| G K D H A K W S P
UniRef90_D8QNS1 G| A K D H A K W S P
UniRef90_UP1000359D8F2 G F A K E H A K W N P
UniRef90_L0PEQ4 G| A K E H A K W S P
UniRef90_UP100044494F8 G| A K E H A K W S P
UniRef90_C1BV58 G F A K E H A K W N P
UniRef90_A9SHD1 G| G K D H A K W S P
UniRef90_W5NJ36 G| G K D H A K F S P
UniRef90_F0ZT58 G| G K E H A K W S P
UniRef90_W5KXU0 G| G K D H A K F S P
UniRef90_H2YE9 A G F G K E H A K W Q
UniRef90_B3RV95 G| G T E H A K W N P
UniRef90_K5W2E9 G| A K E H A K W S P
UniRef90_UP10003C27140 G| G K D H A K F S P
UniRef90_UP100034F60CB G| G K D H A K F S P
UniRef90_J3JZ55 G F G K E H A K W N P
UniRef90_F4P8K9 G T A K E H A K W S P
UniRef90_A0A016VXZ2 G F G K E H A K W N P
UniRef90_I1G6S9 G F G K E H A K W S P
UniRef90_U9U469 G| G K E H A K W S P
UniRef90_B9HS44 G| G K D H A K W S P
UniRef90_V2XDD5 G| A K E H A K W S P
UniRef90_R7TNL5 G F A K E H A K W N P
UniRef90_UP1000265762B G F G K E H A K W N P
UniRef90_H3E9U3 G F G K E H A K W N P
UniRef90_B8PBS2 G| A K E H A K W S P
UniRef90_R4X6D5 G| A K E H A K F A P
UniRef90_C4WTK3 G F G K E H A K W N P
UniRef90_A2ATX1 G| G K D H A K F S P
UniRef90_T1G647 G F A K E H A K W N P
UniRef90_A0A024GLH5 S| G K D H A K F S P
UniRef90_A8PAX3 G F G K E H A K W N P
UniRef90_K5XBU6 G| G K E H A K W S P
UniRef90_F7B0W1 G| G K D H A K F S P
UniRef90_W4K3P5 G| A K E H A K W S P
UniRef90_G4LUY0 G F G K E H A K W N P
UniRef90_W2RKY2 G| G K D H A K F S P
UniRef90_F4Q3D5 G| G K E H A K W I P
UniRef90_E1ZQP2 G| G D D H A K W S P
UniRef90_U9TS65 G| A K E H A K W S P
UniRef90_U5HCM2 G| A L E H A K W S P
UniRef90_M2XDV5 G| G K E H A K W S P
UniRef90_Q5CSH3 G| G K F H A K W I P
UniRef90_S8FH34 G| A K E H A K W S P
UniRef90_S2JI72 G| G R E H A K W S P
UniRef90_F9WWV9 G| A K E H A K W A P
UniRef90_K5W688 G| A K E H A K W S P

UniRef90_N1PY9P	1	P T I A D L V E E N N T S V L A D E F L A H R L G L V P S T K G V D D M V
UniRef90_G1KJC2	10	P T T M A V E K V F V Y N N T S I V Q D E I L A H R L G L I P C A D P R L F E
UniRef90_B4N0H9	20	P S M A E K V Y I Y N N T S I I Q D E V L A H R L G M G L L P L K A D P R L F E
UniRef90_H2MZM7	30	P T T M A E K V Y I Y N N T S I I Q D E V L A H R L G L I P I K V D P R K F E
UniRef90_L8H8M4	40	P T T M A E H V W I H N N T S I I Q D E V L A H R L G L I P V S D R A M A M R
UniRef90_S8EG49	1	P T T I A D L V E I E V N T S V L P D E F I A H R L G M P L V S T M C D E M R
UniRef90_UP100044110FE	10	P T T V A D M V E I E T N T T V L P D E F I A H R L G M P L V S S A V G G M
UniRef90_I0YJE2	20	P T T I A D L V E I E E N T T V L P D E F I A H R L G M P L V S S A V G G M
UniRef90_M7X6B0	30	P T T I A D Q V Q I H E N S S V L P D E M A H R L G M V P L N S E G M E K L N
UniRef90_UP10004560877	40	P T T V A E H V Y V W N N T S I I Q D E V L S H R L G L V P L K S M D C A K L V
UniRef90_M9LUN7	1	P T T V A D M V E I E R N N T T V L P D E F I A H R L G L I P L H S R G V D N L N
UniRef90_W2RZZ1	10	P T T V A D L V D I E T N T T V L P D E F I A H R L G M V P L K A S K N C D E M R
UniRef90_M2RGL5	20	P T T I A D L V E I E T N T T V L P D E F I A H R L G M V P L K A D P R M F E
UniRef90_R7UBF7	30	P T T M A D K V K I Y N N T S I I Q D E V F A H R L G L I P L K A D P R M F E
UniRef90_L8X0D5	40	P T T V A E N V Y I W N N T S I I Q D E V L A H R L G L V P L K A D P A L L D
UniRef90_M2MTP9	1	P T T I A D L V E I E S N S S V L P D E F I A H R L G M P L K A S T R D V E D M F
UniRef90_F2TZG3	10	P T T I A D D V H I E I N T T V L P D E F I A H R L G L I P L K A T S E R A A H F N Y
UniRef90_A9URC4	20	P T T M A D A V H I A K N T S V L H D E F I A H R L G L I P L K A T S E A A D K F Y
UniRef90_D2W3Y1	30	P T T I A D L V E F E M N S S V L P D E F I A H R L G L I P L T C L N I N S F S
UniRef90_UP100044083AE	40	P T T I A D I V E L E M N T S V L P D E F I A H R L G M V P L I S T N C E E I R
UniRef90_M5ED40	1	P T T V A E H V Y I W N N T S I I Q D E V L S H R L G L I P L A D P R K L N
UniRef90_V3Z1P0	10	P T T M A E K V F M Y N N T S I I Q D E V L A H R L G L I P L R A D P R L F E
UniRef90_D3TQZ8	20	P S M A E K V Y I H N N T S I I Q D E V L A H R L G L I P L R A D P R L F E
UniRef90_E9CIH1	30	P T T M A E T V F F T N N T S I I H D E A A H R L G L V P L R A D P R Y F E
UniRef90_G3ND06	40	P T T M A E K V F I Y N N T S I I Q D E V L A H R L G L V P L R A D P R L F E
UniRef90_G4TQ08	1	P T T V A E R V Y V Y D N T S V I Q D E V L S H R L G L I P L R I D P R M L E
UniRef90_I1IIS1	10	P T T V A D L V E I E S N S S V L N D E F I A H R L G L I P L T S S G A M G M R
UniRef90_F4PDW3	20	T M A E N V Y I M N N T G V M H D E V L A Q R L G L I P L N S D P R L F D
UniRef90_K1RM70	30	P T T M A E K V H I Y N N T S I I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_H9J5X2	40	P T T M A E K V M I K N N T S I I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_H6BPX3	1	P T T L A E K V Y V Q N N T S V I I A D E V L A H R L G L I P L K G N I E G L K
UniRef90_B6TCC3	10	P T T V A D L V E I E V N S S V L P D E Y I A H R L G Q I S T N C D E I R
UniRef90_A8N5W0	20	P T T V A D L V E F E A N T S V L P D E Y I A H R L G Q I S T N C D E I R
UniRef90_UP10002652CC0	30	P T T M A E K V S I F N N T S I I Q D E I L A H R L G L I P L K A D P R I F E
UniRef90_UP10004404CAB	40	P T T M A E K V L V Y N N T S I I Q D E I L A H R L G L I P L H A D P R L F E
UniRef90_W1Q8B1	1	P S V A A E Y V Y I F N N T S V I Q D E V L A H R L G L I P L K V D P D M L T
UniRef90_F4W6A3	10	P S M A E K V Y I Y N N T S V I Q D E V L A H R L G L I P L R A D P R L F E
UniRef90_Q93338	20	P T T I A D W V Q I E T N T S V L H D E F I A H R L G M P L F I S D H V E K M Q
UniRef90_Q94616	30	P T T L A F E F V Y Y I I N N T S V I Q D E V L S H R L G L V P I S A D P D M F K W
UniRef90_A0A058Z9D0	40	P T T M A I E N V Y V K N N T S V I H D E L C H R L G L I P I Y A D P R Q F D
UniRef90_G4T8F0	1	P T T V A D M V F E V N T T V L P D E F I A H R L G M P L I S T N C D E M R
UniRef90_K7J3Y0	10	P S M A E K V Y M I N N T S L I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_Q5BAL5	20	P T T L A E W V Y I H N N T S V I Q D E V L A H R L G L I P L Q G E G N W M Q
UniRef90_S7ZRQ4	30	P T T L A E Y V F Q V N N T S V I Q D E V L A S R L G L I P L Q G E G N W M H
UniRef90_UP100045600F8	40	P T T V A D M V E I R N N T T V L P D E F I A H R L G M P L L S M D A A K L V
UniRef90_UP10004621A02	1	P T T I A E D V F V W N N T S V I H D E I L A Q R L G L I P L N V D P A L
UniRef90_R4XF84	10	P T T M A E Y V Y I M N N T S V I Q D E V L A H R L G L I P L S A P A S E F A Q
UniRef90_C5DLD4	20	P S V A A E Y V Y F F N N T S V I Q D E V L A H R L G L I P L K V D P D M L S
UniRef90_W6MRC2	30	P S V A A E H V Y V N N T S V I Q D E V L A H R L G L I P L K V D P E L L S
UniRef90_E2BIJ1	40	P T S M A E K V Y V I N N T S V I Q D E V L A H R L G L I P L R A D P R L F E
UniRef90_M2PBE5	1	P T T M A E H V Y V W N N T S V I Q D E V L A H R L G L I P L F A D P R K F S
UniRef90_J1FCU4	10	P T T M A E K V H V I N N T S V I Q D E V L A H R L G M P L R A D P R L F E
UniRef90_UP1000252BC62	20	P T T M A E K V Y I V N N T S V I Q D E V L A H R L G L I P L A A D P G V Q Y E
UniRef90_D7FB9	30	P T T M A D L V T I H D N S S V L Q D E F L S H R L G L I P L K A D P R L F Q
UniRef90_N6U2F2	40	P T T M A D K V H V L N N T S V I Q D E V L A H R L G L I P L N V D P D A L V
UniRef90_C4XY85	1	P S V A A E T V Y Y V F N N T S V I H D E V L A H R L G L I P L N D P G L
UniRef90_UP10004407F59	10	P T T I A E S V Y Y V W N N T S V I H D E V L A H R L G L I P L T G E G N W L R
UniRef90_C1GK69	20	P S S L A I E T V Y I H N N T S V I Q D E V L A H R L G L I P L P A S E T A G E F D
UniRef90_E9BZM2	30	P T T M A D L V Q F D E N S S V L H D E F V A H R L G L I P L K G E G L K W L K
UniRef90_W9XDV7	40	P T T L A I E K V Y V Q N N T S V I A D E V L A H R L G L I P L K G E G L K W L K
UniRef90_E9GTW6	1	P T T M A F D K V F M F N N T S V I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_D3AXW3	10	P T T M C D L V E F E A N N S V L V D E F A H R L G L I P L T S H K V D Q F N
UniRef90_A0A026WCW5	20	P S M A E Q V Y I V N N T S I L Q D E V F A H R L G M P L R A D A R L F E
UniRef90_B6AI35	30	P T T L A D L V T I I D N T S V L H D E F I V H R L G L I P L D S R Q I R D F N
UniRef90_Q39212	40	P T T M A I H L V K I E V N S S V L N D E F I A Q R L S L I P L T S E R A M S M R
UniRef90_R7SMG9	1	P T T I A E D V F V F N N T S V I H D E I L A Q R L G L I P L N V D P R L F D
UniRef90_Q0UUAA6	10	P T T L A E D V F I Y Q N N T S I I Q D E V L A H R L G L I P L C G S H R W L K
UniRef90_A44RS9	20	P T T V S D L V E V I E N S S V L C D E F L A H R L G L I P L D S T K A S E L V
UniRef90_D5GK0	30	P T T L A I E S V Y V S N N T S I I Q D E V L A H R L G L I P L C G D K D A L K G
UniRef90_B0W725	40	P S S M A E K V H I Y N N T S I I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_B6GYD0	1	P T T I A E D C F I H N N T S V I Q D E V L A S R L G L I P L K G E G I N W M H
UniRef90_B8NHK8	10	P S S V A E F V F V H N N T S V I Q D E V L A Q R L G L I P L K G D G I N W M R
UniRef90_C5P1D3	20	P S S L A I E F V F I H N N T S V I H D E V L A H R L G L I P L P L K G E G I N W M S
UniRef90_E3JPW7	30	P T I A I H S V E F E E N T S V L P D E M A H R L G L I P L P L I S E D L D K Y N
UniRef90_G3B4V4	40	P S S V A A E T I Y V F N N T S V I Q D E V L A H R L G L I P L K A D P D L L T
UniRef90_F8N1F7	1	P T T L A I E D I F M W N N T S V I Q D E V L G H R L G L I P L P T G G K E G L H
UniRef90_L7MJV0	10	P T T V A D L V E V I E N S S V L C D E F L A H R L G L I P L P T G G K E G L H
UniRef90_L7MJV0	20	P T T V A D L V E V I E N S S V L C D E F L A H R L G L I P L P T G G K E G L H
UniRef90_Q014V0	30	P T T M A I E K V Y M I N N T S V V P D E V F A H R L G L V P I K A D P A R
UniRef90_T2MF5	40	P T T M A I E K V F I F N N T T V V Q D E I L A H R L G L I P I L A D P R E F N
UniRef90_K8ENH8	1	P T T V A D L V E I V E N S S V L C D E F I H R L G L V P I V S D A S D Y M
UniRef90_J7RFU5	10	P S V A A E Y V Y V M N N T S V I Q D E V L A H R L G M P I K V D P D M L T
UniRef90_F4Q915	20	P T T M A I E K V F I I N N T S L Q D E V L A H R L G L I P I K V D P R K F N
UniRef90_C1EBY2	30	P T T I A I D L V E V I E N S S C C D E F A H R L G L I P I V S H K A A D M E
UniRef90_R0GHJ5	40	P T T M A I E K V L I I A N N T S V I I D E V L A H R L G M P I I A A D P R L F E
UniRef90_F6YKL2	1	P T T I A I D W V Q I D A N S T S V L H D E F A H R L G L I P I T S D D V D K L Q
UniRef90_B0DOL9	10	P T T V A D M V E I E L N T T V L P D E F I A H R L G M V P I L S S S N C D E L R
UniRef90_A3GGP5	20	P S V A A E A V Y M F M N T S V I Q D E V L A H R L G L I P I R V D P D K M N
UniRef90_S7RW72	30	P T T V A D T V E V V S N T T V L P D E F I A H R L G M P I I H A D P R L F E
UniRef90_UP100042C8115	40	P T T M A V E K V L V Y M F M N T S I V Q D E I L A H R L G L I P I I M A N P R M F E
UniRef90_D7FPF8	1	P T T V A I E H V Y M F M N T S I I H D E I L A H R L G L I P I I M A N P R M F E
UniRef90_B7Q825	10	P T T M A P D K V F M Y N N T S V Q D E V L G H R L G L I P I P F N I D P R M F D

	50	60	70	80
UniRef90_N1PYP9	D G R D C T C D D Y C D N C S	V V L R L N V A N N S D Q N L K V F A R D L F V E		
UniRef90_G1KJC2	Y K S E E D E C D E N T L Q F Q L K I K C S R N P P N E L Y N H K V Y S			
UniRef90_B4N0H9	Y R T E S P E N G T E Q D T L L E Y E L K V C T R Y K N H K V F S G H L K W L			
UniRef90_H2MZM7	Y K N G E Q E A S E L D T I Q Q L Q K C S R N P P R E Y L N H I V Y S			
UniRef90_L8H8M4	F K K P G E E E T D E T T L V F K L K V R C T R S N N T V Y S R D L I W E			
UniRef90_S8EG49	F S R D C D A C D G C E Y C S V E F I L R A K C D E N K T L D V T S K D L K N Y			
UniRef90_UPI00044110FE	Y T R D C T C E V R C Q Y C A I E L Q L N V A C H E N T T M H I T S N M L E V V			
UniRef90_I0YJE2	K G V F E D A G E A D F L D V E M T L N V K C T S S E D T M E V T S N D L Q D			
UniRef90_M7X6B0	Y N K E C D C D Q Y C P K C S V V L T L S A K C V S S Q T M E V T T K D L V L E			
UniRef90_UPI00044560877	I A M R M P G D D A D D S N T V V F H K A K C E R N P R H N V Y S S Q L T W D			
UniRef90_M9LUN7	D H R D C A C E D G C D R C S V E L T L R A R C T T R G N L E V T S R D L I R S			
UniRef90_W2RZZ1	Y T R D C T C C D C H C Y C S V T L S L N V A C H E N T T M D I T S N H L E V I			
UniRef90_M2RGL5	Y R S E D N E E G T P E D T L V F F E L K V V K C T M N K N H K V T T R D M K W I			
UniRef90_R7UBF7	F P D S A V G P T D R N T L V F K L S V T C S R N P N A N V L S G H M E W N			
UniRef90_L8X0D5	Y T R D C A C D F C D N C S V E L T L R A R C T T R G N L E V T S R D L I R S			
UniRef90_M2MTP9	Y M R D C T C D A G C P N C V V K L E L H V A C R D A H Q M E V T T E H L R S T			
UniRef90_F2TZG3	Y P R D C T C C E M G C D H C Q V M L T L D V E G H T E E P T H V T T D D L I S Q			
UniRef90_A9UCR4	Y T S D C S C T G H C E K C S V E L T L H V K C T E S H R D V T S N D L I S N			
UniRef90_D2W3Y1	Y N R D C T C E V H C D F C T V S L M L D V T C G E D G N L D V T S S N H L D V I			
UniRef90_UPI00044083AE	F K L Q D E A N D Q N T V V F T L K A E C K K R N T K D H K V T T K Y L K W V			
UniRef90_M5ED40	Y R A E G D T E G T A E D T I E F H L K V V K C S R N K D H K V T T K Y L K W V			
UniRef90_V3Z1P0	Y R G D E S D Q G T E Q D T L D F E L K V V K C S R Y K N H K I Y S G Q I K W L			
UniRef90_D3TQZ8	T R D T P D T Q A T D R N T L V F T L D V K C T K N P N S R M V Y S R D I K W V			
UniRef90_E9CIH1	Y R S T G E A S A E E G D T I Q L Q K I K C S R N P N H M V Y S R D I K W V			
UniRef90_G3ND06	D A P Q N Y Q D D S T D R N T M V F S L D V T C A D R D N S S V Y A K D L Q W V			
UniRef90_G4TQ08	F S R D C D A C D G C E H C S V E F H A A R A T D N K T L E V T S N D L R S T			
UniRef90_I1II1	F R E G S D D P P T D L N T L V F R L N I K C T R N P H S D V L S K H L I W E			
UniRef90_F4PDW3	Y K S E E D T E G T E F N T L E F S L K V V K C T N Y E N H S I Y S S H M K W H			
UniRef90_K1RM70	W L K W F I D S N P E D Y N T V V L H H V V R C E R N P N S T V Y S R H I Q W E			
UniRef90_H9J5X2	F S R D C D A C D G C E H C S V E F H S H V H A D S D Q T L E V T S N D L R S M			
UniRef90_H6BPX3	Y T R D C T C C L S Q C S C V Q L R N I K C T R N P H S D V L T K H L K W I			
UniRef90_B6TC3	Y R E E V N D E T G T G E D T I E F Q L K V V K C T K N P N A K V T T E H F K W I			
UniRef90_A8N5W0	Y R N Q G D E E G T E I D T L L Q F R L Q V V R C T R N P H A A K D S N E L Y V N			
UniRef90_UPI0002652CC0	W I D P N A E E F T D D E N T I V L S L D V A C T K N P N S N V Y A R D L L K F E			
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UniRef90_W1Q8B1	Y T R D C E C C A E F C D E C S I P F I L Q M K C K D E A T L A V T T E H L M P M			
UniRef90_F4W6A3	F Q H P L P G Q E H T D Y D T V V F S L N K K C E F N K N S E V Y S G D L I W K			
UniRef90_Q93338	F K R P A E G E Q P T D A D T I V L S L N V K C T K N P N S T A F S R D I K W V			
UniRef90_Q94616	Y T R D C D O E L G C P L C M V V L T L H V R C M P G T T M N I T S D H L Q I Q			
UniRef90_A0A058Z9D0	Y P S K T T A D E E S D Q D T L R Y E I K A I C D S R R P D D I Y C G N N V Y S			
UniRef90_G4T8F0	Y T R D C D O E L G C P L C M V V L T L H V R C M P G T T M N I T S D H L Q I Q			
UniRef90_K7J3Y0	Y P S K T T A D E E S D Q D T L R Y E I K A I C D S R R P D D I Y C G N N V Y S			
UniRef90_Q5BAL5	Y W N K G S E D E P G D Y N T V V L R L D V E C T K N P N A H V Y A K D L V F H			
UniRef90_S7ZRQ4	Y W R K P S E D D P S F D N T V V M H L V V E C T K N P P P R K L Y H N A H V Y A			
UniRef90_UPI00045600F8	D H G D C A C E D G C D R C S I E L R K I V C T T R G N L E V T T N D L V R S			
UniRef90_UPI0004621A02	F S P R L P G D I P Y D R N T L V F Q L D I V E C S R G A N E Y V T S G D L K W V			
UniRef90_R4XF84	F K R P A E G E Q P T D A D T I V L S L N V K C E R N K N G D V T S G M I K W T			
UniRef90_C5LD4	W V D T S V P E A F T D E N T I V L T L N V R C T R N P N A H I Y A R D L K F E			
UniRef90_W6MRC2	W V D P N A P E F T D D T D D N T L V L S L D V Q C K K D K T M S V Y A R D L V F E			
UniRef90_E2BIJ1	Y P P S N K D D E V S D Q D T L R Y E I K V V A C T K N P P E E I Y K N S S V Y S			
UniRef90_M2PBE5	F E F R T Q T D T P T D R N T L V F Q L N V T C E R M K N E Y V R S E D L E W V			
UniRef90_I1FCU4	F E D A P F P E Q L T P Q H M L E F Q L K V V K C S R N V N H K V T S G D M K W V			
UniRef90_UPI000252BC62	Y P Y S S K D Q D E V S D Q D T L R Y E I K V V S W D K D Q P V H V T S A D L V S S			
UniRef90_D7FBH9	Y N Y D C D C E D Y C D K C S A V F T L D V S C T R N P N S S V Y A R D L K F E			
UniRef90_N6U2F2	S V A D V N E A P T E K N T L E F F E L K V V K C S H N K N S N V Y S K Q I K W V			
UniRef90_C4XY85	Y N R D P A A D E A F N D T N T I V M S L D V E C K R Y E N H L V T A G M L R W E			
UniRef90_UPI0004407F59	Y L A E C D D G G C N R C T V S L T L E A E G P C S V V A R D L K F E			
UniRef90_C1GK69	Y L A E C D D G G C N R C T V S L T L E A E G P C S V V A R D L K F E			
UniRef90_E9BZM2	W F F E P N P D G R T D Y N T V V L S L N V K C E R N P N S S V Y S R H I K W V			
UniRef90_W9XDV7	F R A E D D D A G T P E D T L E F F E L K V V C C K D K T M S V Y T S H L K W M			
UniRef90_E9GTW6	Y T R D C S C A E R C D N C S V R Y E I K N A R C N D H S Y S V T S L D L L S Q			
UniRef90_D3AXW3	F P P Q N P N G E I G D Q D T L R Y E I K V V T C T K N P P D D L Y R N S K I Y S T			
UniRef90_A0A026WCW5	F K D R C G C Q E R C N K C S V R Y E I K V V C T K N P P D D L Y R N S K I Y S T			
UniRef90_B6AI35	F C E D C N G D E H C E F C S V E F P L S A K C V T D Q T L D V T S R D L Y S A			
UniRef90_Q39212	F P R T P G G I P M R M D R N T L V F K L N V T C E R A K N E Y V K S G D L V W E			
UniRef90_R7SMG9	Y W K K E T D D D P S D Y N T V I M K L D V E C S E T D P D K L Y I G H N V Y A			
UniRef90_Q0UU46	K P Y E Y T G D D D T T A T D V H L E L N V R C Q S D Q T R D V T S D D L I S H E			
UniRef90_A44RS9	L S W Y L R G E E P T D E D T V V L Y K L K A C C E R N P N H N V Y A S D I L L F E			
UniRef90_D5GK0	Y K T N E G D A A N A Q D T L E F F E L K V V K C T K Y K N H S I Y S G Q I K W V			
UniRef90_B0W725	W F K K E E E D D P S D Y N T V I L R L D V E C T K N P N A H V Y A R D L M Y M			
UniRef90_B6GYD0	W F R M P K E G P D D S N T V I L R L D V E C T K N P N A H V Y A R D L T F H			
UniRef90_B8NHK8	W F R M P K E G P D D S N T V I L R L D V E C T K N P N A H V Y N N A H V Y A			
UniRef90_C5P1D3	W Q R D C T C O L S Y C D C S I E L V L E L K V V K C T K N P Q H M V Y T K H L T W N			
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UniRef90_L7MJV0	F E Y R G P N D L A N E T N T I V L S L H A R C H R E R N R S V Y S N A L Q W C			
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UniRef90_Q014V0	L P S E Y V G E D E A K I N V H L N A V V K C S S D H T L D V T T N H L I C A			
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UniRef90_K8ENH8	F K Q A S K E Y T A E D T L I F K L N V R C Y K D E N G E V T S G Q I K W V			
UniRef90_J7RFU5	F P Y D Y A G D D E T V T D V P I E L R V V K C V S D Q T E D V T S N D L L I N			
UniRef90_F4Q915	Y L S E N D Q P N E K N T V F K L H V V K C P R N R P R H V L T S D L K W L			
UniRef90_C1EBY2	Y S R G N S V T E G C R C A N K F T G L V G C H D D T T M E V T S A H L D V I			
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UniRef90_F6YKL2	Y S R G N S V T E G C R C A N K F T G L V G C H D D T T M E V T S A H L D V I			
UniRef90_B0DOL9	S T R D C T C O L A G C S F C A I M L V L N V G C H D D T T M E V T S A H L D V I			
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	90	100	110	120
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UniRef90_B4N0H9	P K G K Q Q I Y T E S S V G C I H E D I	I L I A Q L R P G H E M D L R L I A V K		
UniRef90_H2MZM7	K D I N W V P L G N Q A D V F A D H D D I	V I A Q L R P G Q E L D V V M H C V K		
UniRef90_L8H8M4	P V G G Q A E L F A D D P P R P V H D D I	L I A K L R P G Q E I E V E C R C A K		
UniRef90_S8EG49	D Y S V Q A V D F S Y P S S R S D D Q G I	V I V K L R Q G Q E L V L R A I A R K		
UniRef90_UPI00044110FE	P T N K P E N F G H P I G K D P D V P P	L I C K L R Q M G Q E L R V R C I A K K		
UniRef90_I0YJE2	N H P D V R P V G Y P G G Y D P E N R G I	L L V K M R K N Q E L R L K A I A R K		
UniRef90_M7X6B0	G G V S D V G K P A T N P D P K L Q D G I	L L A K L R A K G Q E L N L R C I A V K		
UniRef90_UPI0004560877	P K G S Q E E D F A D C P P R A V H D R I	L L A K M R P G Q E L D L E L H C E K		
UniRef90_M9LUN7	D S I E G P D F G R P V G H D G S M A P I	M L V K M S K G Q E L D I R C I A R K		
UniRef90_W2RZZ1	D D R A D S I L Q G P R D P N G E G P	L L L K L R H N Q E I D F T C I A K K		
UniRef90_M2RGL5	P G G G Q K N F G H P V G K D P N V P P	V I C K I L R Q G Q E L K L K C I A K K		
UniRef90_R7UBF7	P K G N Q Q E L F K D S I C P V Q D D I	L L A K L R P G Q E I D I E M H C V K		
UniRef90_L8X0D5	G V G E Q V N D F G N N P P R P H N P K I	L L A K L R P G Q E L E M E L H C V K		
UniRef90_M2MTP9	H A E E L P P R G F P I L M D P E Q K Q G	P L C S L R K G Q E L L K L R C I A K K		
UniRef90_F2TZG3	L D G P D T S V V P V A D Q S I L Q G N H	I V C K I L R Q G Q E L K L T C Y A R K		
UniRef90_A9URC4	G D F M A V K P I S A R E E S N I R N P I	V I C K L A K G Q R I Q L T A F A K R C		
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UniRef90_H9J5X2	P I G N Q A T V Y K E A D V G P V H K D I	L I S K M R P P G H E I D L Q M I A V K		
UniRef90_H6BPX3	P Q G Q Q Q E R F K D G P I E P V V S P D I	L I A K L R P G Q E I D M V L H A H L		
UniRef90_B6TC3	D P K V C P T D P F G A N A S N E N R G I	L I V K L R R G Q E I R L R A I A R K		
UniRef90_A8N5W0	P N G R Q V T Q F A N C P V V P C D P D I	L I A Q L R P G Q E I R V K C I A K K		
UniRef90_UPI0002652CC0	H K G N Q A D L F P E G T I R P V H D D I	L I A Q L R P G Q E I D L L M H C V K		
UniRef90_UPI0004404CAB	P L E N Q E E T Y G P K A F A P V N K D I	L I A K L R P N Q E I S L R V H C V L		
UniRef90_W1Q8B1	K D I K W V P I L G R Q A E K F K A E N D I	L I C K M R P G H E I H L F M H A V K		
UniRef90_F4W6A3	H N L D T R E R G S T R D E F H N R E E I	L I V K L R K G Q E L N L K A Y V K K		
UniRef90_Q93338	P Q G R Q E E R F A D N P I R V V N P D I	L I V V A K L R P G Q E I D L E A H A I L		
UniRef90_Q94616	P Q G P Q A E R F A E D P I R P V H D A	L I E I R L R P G Q E I D I D M H C V K		
UniRef90_A0A058Z9D0	S G G R G E D F G L P V S K S R N G H P	L I A S L R K G Q E E K L R C E A K K		
UniRef90_G4T8F0	K D I K W N P I G R Q N E L Y P D G D D I	L I C K M R P N Q E I H A Y M H A V K		
UniRef90_K7J3Y0	P V G R Q E E F F T G E G I R A V V N P D I	L I V V A K L R P G Q K I E L E M H C I K		
UniRef90_Q5BAL5	K D I T F S P V G R Q E E I R P V N P D I	L I A K L R P G Q K I D L E M H C I K		
UniRef90_S7ZRQ4	P A P K H P D F G K P V G H D G S I P P	L I V K M T R G Q E L D V R C I A R K		
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UniRef90_R4XF84	P Q G K Q R E T F A K N P V V P A D P D I	L I A K L R P G Q E I S L L R A H C V L L		
UniRef90_C5DLD4	P Q G R Q V E V F A F Q P V V P C D P D I	L I V K L R Y G Q E I V S S L R V H C V L L		
UniRef90_W6MRC2	P Q G R Q E E F F T G E G I R A V V N P D I	L I A K L R P G Q K I D I E M H C V K		
UniRef90_E2BIJ1	K D I T F Q P V G R Q E E A Y F P E P D G I	L I V V A K L R P G Q K I D I E M H C V K		
UniRef90_M2PBE5	P Q G E Q E V V F A D K P P A P T N K E I	L I V V A K L R P G Q E I N V E L H A I L		
UniRef90_I1FCU4	P I E D Q S Q L F S V H D I R P V D K D I	L I A K L R P G Q E I D L R L C I V C V K		
UniRef90_UPI000252BC62	R D I K W V P I G H Q A E L Y P R G N D I	L I C K M R P G Q E I H A F M H A V K		
UniRef90_D7FB9	D P R L R A V H F A P S D Q T S Q D A G I	L I A K L R P G Q K I D I E M H C V K		
UniRef90_N6U2F2	P I G S Q R S R F N E S D V G P I H Q D I	L I A K L R P G Q K I D I E M H C V K		
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UniRef90_UPI0004407F59	P Q G E Q A D V P Q L K P P G P T N P N I	L I V V A K L R P G Q Q V I D M E C H A I L		
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UniRef90_E9BZM2	D E S V V P I L S Q R D A S G S E Q H D V	L I V V A K L R P G Q E I K L T A I A K K		
UniRef90_W9XDV7	V Q G S Q E E Q F R D G P I E P V V S P D I	L I V V A K L R P G Q E I D I I M H A H L		
UniRef90_E9GTW6	P L G G Q K D I F T P D A V G P V D D K I	L I A K M R P P G H E L D I K L H A M K		
UniRef90_D3AXW3	N D H V I P V G S S D D G R P D T V I P	L I V K L R H G P Q E V K L R A I L A K K		
UniRef90_A0A026WCW5	K D I K W V P I G R Q A D M F P V D E D I	L I A K L R P G H E I H A Y M H A V K		
UniRef90_B6AI35	L P V P N I P L P V P D V T D P N N E G I	L I A K L R P G Q Q S L T A R M T A T K		
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UniRef90_Q0UU46	K D L V W E P L G K Q F D E F P S G E D I	L I V K M R P P G Q K I Q L S M H A I L		
UniRef90_A4RSP9	D E R V K P S F G G T G G G S A K S G G I	L I A K L R K N Q Q L S L K C I A R K		
UniRef90_D5GK0	P A G R Q I K S F A H D P V R A A N P D I	L I A K L R P G Q G E I D L T M H C I K		
UniRef90_B0W725	P V G N Q A S I L Y K E A D V G P I D D D I	L I S R M R P P G H E F D I K L F A V K		
UniRef90_B6GYD0	P V G R Q E Q Y F G D G A I A P V N P D I	L I A K L R P P G Q K I I E M E L H C Q K		
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UniRef90_C5P1D3	K D I V F E P V G R Q A A I F P A Y P D I	L I A K L R P G Q K I I D I E M H C I K		
UniRef90_E3JPW7	P R E D G A H H R G D F T M P G G E Q P G V	L I T K L R P G Q E E V R R L K C R A I L		
UniRef90_G3B4V4	P Q G K Q V E L F K G N P V T A A D P N I	L I A K L R P G Q G E I S L L R A H C I L		
UniRef90_F8N1F7	K D I K F V P K G R Q A A I R P T N P D I	L I V A K M R P P G Q E E I D L L T M H M H K		
UniRef90_L7MJV0	P L G S Q A E I F G N K P P R P V H D D I	L I A K L R P P G Q E E I D L L K L H C V K		
UniRef90_L7MJV0	P L G S Q A E I F G N K P P R P V H D D I	L I A K L R P P G Q E E I D L L K L H C V K		
UniRef90_Q014V0	P D G S Q R E S F G E E E L G C V H D D I	L I L V K L A P P G Q E E I E L E C H C V K		
UniRef90_T2MF5	P I G R Q A E K F S T N I V R P V F D D I	L I A K L R P P G Q E E I D I R M H C V K		
UniRef90_K8ENH8	D A K F L P V N F H P I D S D S E P P G V	L I V V K L R K N Q E L V V V K C I A R K		
UniRef90_J7RFU5	P Q G K Q L E T F A D C P V V P S D P D I	L I A K L R P P G Q E E I S L R V H C I L		
UniRef90_F4Q915	P T E D Q E S M E G E N P E D P V H D D I	P I V K L R P P G Q T V D D L Q Y C E F K		
UniRef90_C1EBY2	G D Y T Q Y D T V K P V H Y R P S G H P I	L I L K L R K N Q E I N M R C V A R K		
UniRef90_R0GHJ5	P N G S S L P E F A D N P I A P S D L D I	L I A K L R P P G Q E E I E L E A H A V K		
UniRef90_F6YKL2	L Q V T S R S R D N D P N D Y V E Q O D D I	L I V V K L R K G Q E E L R R L R A Y A K K		
UniRef90_B0DOL9	P Y P R G E Y F G H P V G K N P G V A P I	L I A K L R P P G Q E E I K V K C V A K K		
UniRef90_A3GGP5	P H G K Q A E L F K D L P V V A A D P D I	L I A K L R P P G Q E E I S L R A H C I L		
UniRef90_S7RW72	P S V F N P Q F G H P V G K D P S L P P V	L I A K L R P K G Q E E I K V R C L A K R		
UniRef90_UPI00042C8115	P L G N Q A D L F P E G T I R P V H D D I	L I A K L R P P G Q E E I V D L L M H C V K		
UniRef90_D7FPF8	P H G D Q V E R F E E G G L R P V H D D I	L I A K L R P P G Q E E I V A E M H C R K		
UniRef90_B7Q825	P I G S Q A E I F G N K P P K P V Y D D I	L I A K L R P P G Q E E I D L K L H C M K		

1 10 20 30 40

UniRef90_A0A059LLC2	P T M A I E H V F V V N N T S I I P D E M L A H R L G L V P L A H P R D F E
UniRef90_B9GFY9	P T M A I E K V F I A N N T S I V I Q D E V L A H R L G L I P I K V D P R L F E
UniRef90_M7PLN2	P T M A I E Y V F I N N N T S I I Q D E I L A Q R L G L I P I K A N P D F F T W
UniRef90_J9I4J8	P T M A I D L V E V N T S A L H D E F I A H R L G L I P M Q S F D V D K F Q
UniRef90_I4YBL8	P T M A I D I V N I E E N S S V L V D E F I A H R L G M V P L I S T A C D K L N
UniRef90_UP10004413648	P T V A I E H A Y V W N N T S V I H D E V L A Q R L G L V P L D I D P A L M E E
UniRef90_T1KCG6	P T M A I E K V F I G E N T T I F Q D D F I A H R L G M V P L I S D N C E E M R
UniRef90_D8QCCE2	P T V A I D L V E F E T N T T V L P D E F I A H R L G L I P F K G G K P G L F D
UniRef90_R8BYC5	P T L A I E T V Y Y F E N N T S V I I Q D E V L A H R L G L I P I N A D P R L F E
UniRef90_B9S9W7	P T M A I E K V L I A N N T S L I I Q D E V L A H R L G L I P I D S T R V A E F V
UniRef90_B6KGK1	P S L A I D L V T V Y E N T S V L H D E Y I S H R L G L L P I D P R L F E
UniRef90_R1CTV8	P A M A I D K V F I L N N T S M T E D E V L A H R L G L I P R A D P R L
UniRef90_L8WJX6	P T I A I D L V E E I E S N T T V L P D E F I A H R L G M V P L V I S T N C D
UniRef90_R1DHL1	P T M A I D K V E V L A N S T V L H D D F I S H R L G L V P L F S L L A R W F R
UniRef90_A0A017SIW5	P T L A I E F V F V H N N T S V I I Q D E V L A S R L G L I P L K G E G I N R M R
UniRef90_E4ZXG8	P S L A I E D V F I Y Q N T S I I Q D E V L A H R L G L I P L C G D G L R W M K
UniRef90_S4NXL6	P S M A I E K V M I K N N T S I I Q D E V L A H R L G L I P L K A D P R L F E
UniRef90_K5X518	P T I C I E L V Y I W N N T S V I I A D E E V L A H R L G L I P P L N V D P A L M Q
UniRef90_F6YSX7	P T M A I E K V Y I Y N N T T V I I Q D E V L A H R L G L I P P L T A D A K L F E
UniRef90_F4S444	P S I A I E D V F V W N N T S L V H D E V L A Q R L G L I P P L K V D P R K L
UniRef90_A7TPZ5	P P S V A I E Y I Y I L N N T S V I I Q D E V L A Q R L G L I P P L K V D P D R L T W
UniRef90_D6WP50	P T M A I E K V H I L N N T S V I I Q D E V L A H R L G L I P P L K A D P R L F E
UniRef90_A4S0F8	P T M A I E K V F V V N N T S V V A D E E V F A H R L G L I V P P I K A D P A M
UniRef90_H3AXA9	P T M A I E K V F I Y N N T S I I Q D E I L A H R L G L I P P L N V D P R L F E
UniRef90_D8PQE9	P T L A I E N V Y V W D N T S V I I V D E V L A H R L G L I V P P L N V D P D Q M Q
UniRef90_V4P7Y7	P T M A I E K V F V A N N T S V V V Q D E V L A Q R M G L I P P I A A D P R L F E
UniRef90_V5I0T0	P T L A I E E Y V F I H H N N T S V I I Q D E V L A S R M G L I P P L K G E G I N W M S
UniRef90_W9XB85	T L A I E K V Y V Q N N T S V I I A D E E V L A H R L G L I V P P L K G K E L D F F V
UniRef90_C4JJM6	P S L A I E F V F I H N N T S V I I H D E V L A H R L G L I V P P L K G D G I N W M T
UniRef90_U6IM87	P T L A I D W V Q I L E N S T M I N D E F I A Q R V G L I V P P L T S D N V D K M I
UniRef90_G1XAZ6	P T L A I E T V F V H N N T S I V Q D E V L A Q R L G L I V P P L R G D K L R W R K
UniRef90_UP100042B30F2	P T M A I E K V L I A N N T S V V Q D E V L A H R L G L I V P P I S V D P R L F E
UniRef90_Q6FXP6	P A V A P E Y I Y I Q N N T S V I I Q D E V L A H R L G L I V P P L K V D P E K L E
UniRef90_A7AQ72	P T L A I E S V H I Y Q N T G V I I Q D E V L A H R L G L I V P P F D C N P D L I P
UniRef90_A0A044U881	P T M A I E K V Y L Y Q N T S I I P D E V L S H R L G L L P I K A D P R L F E
UniRef90_14YFV5	P T V A V E N V F V F N N T S V M H D E V M A H R L G L I V P P I L F D A E R L E E
UniRef90_Q01F02	P T T L A I D L V E V N S S V L C H D E F I A H R L G L I V P P L S S K K V S E L F
UniRef90_K1Y256	P T T L A I E N V Y I Y N N T S I I Q D E V L A H R L G L I V P P L K G G N E G L L D
UniRef90_UP1000455EE0E	P T I A I E Q V Y V W N N T S V I I V D E V L A H R L G L I V P P L N V D P S F L E
UniRef90_C5M6J2	P S V A V E T V Y M F M N T S V I I Q D E V L A Q R I G L I V P P W N S P D K L S W V
UniRef90_S7RLW8	P M V C H E H Y V F V F N N T T V M D E V F A H R L G M V P P L N V D P A L M E
UniRef90_U5DCR5	P T M A I E K V L I A N N T S V V V Q D E V L A H R L G L I V P P I K V D P R L F E
UniRef90_G0TON0	P T V A V E N V Y V W N N T S I I Q D E V L A H R L G L I V P P I L A I D P R K L D
UniRef90_D8RH60	P T M A I E K V L I K D N T S V I I Q D E V F A H R L G L I V P P I K A D P R L F E
UniRef90_UP100035A1DFB	P T M A I E T A A I W N N T S V I I Q D E E V L A H R L G L I V P P I K A D P R L F E
UniRef90_B2A971	P T L A I E N V F V W N N T S V I I Q D E E V L A H R L G L I V P P F T T D F L K W Y R
UniRef90_J3QB55	P T V A I E D V F V W N N T S L V H D E E V L A Q R L G L I V P P L K I D P R L V
UniRef90_M5G6J6	P T V A I E D M V E I E V N T T V V L V D E F I S H R I G M I P P L T S T N C E E M R
UniRef90_A8N510	P T I A I E H V V Y W D N T S V I V D E V V L A H R L G L I V P P L N V N P S I
UniRef90_U1HJ21	P T T L A I E Q V F V T N N T S V L V A D E V L A H R L G L I V P P L R G S V S G L D A
UniRef90_A9V9D0	P T M A I E S V Y I Y F N N T S M I P D E E L F A H R L G L I V P P L K A D P R H F T
UniRef90_J4DPE1	P T L A V E T V Q I Y Q N T G V I I Q D E E L L A H R L G L I V P P F N V N P D L F T
UniRef90_M1VXQ1	P T L A I E N V Y I Y E N N T S V I I H D E E V L A H R L G L I V P P F D G G R E G L H N
UniRef90_B6KLD3	P T V A I E T T V Q I E W Q N T G V I V Q D E E V L A H R L G L I V P P F I V D P T A L N R
UniRef90_E3K9Z5	P T V A I E D V F V W N N T S L V H D E E V L A Q R L G L I V P P L K I D P R L F E
UniRef90_B8MRS0	P T L A V E Y V Y I I I N N T S V I I Q D E E V L A S R L G L I V P P L K G E G I N W M Q
UniRef90_D8U6A9	P T M A I E H V F M I N N T S V I I Q D E E V L A H R L G M V P P L K A D P R Q L
UniRef90_R7YJM6	P T L A I E T A Y V F V F N N T S V I I Q D E E V L A A R L G L V P P L K G S K A G I N W
UniRef90_U6NL40	P T M A F E K I Y L Y Q N T S V I I Q D E E V L C H R I G M I P P L N I P P Q L M D
UniRef90_UP10004449954	P T I A I E L V Y V V W N N T S V M V D E V F A H R L G M I P P L F T G N P E G I Q N
UniRef90_N4VXB6	P T L A I E N V Y V E N N T S V I I Q D E E V L A H R L G L I V P P L K I D P D L L N
UniRef90_K0KLJ2	P S V A A I E Q V Y I Y F N N T S V I I H D E E V L A H R L G L I V P P L N V D P S L F D
UniRef90_J4I2I9	P S L A I E N V Y V W N N T S V I I H D E E V L A H R L G L I V P P I K A D P K L F E
UniRef90_T1J5W7	P T M A V E K V I F H N N T S V I I P D E I I A S R L G L I V P P I K I D P R S L R
UniRef90_E6R474	P T V A I E E Y V V W N N T S I M Q D E E V L C H R I G M I P P L K I D P R L F E
UniRef90_W9QYH6	P T M A I E R V L I A N N T S V V V Q D E E V L A H R L G L I V P P I N V D P R L F E
UniRef90_G3J8P4	P T L A I E N V F I E N N T S V I I Q D E E V L A H R L G L I V P P F Q G G R A G L Q D
UniRef90_V4UNK9	P T M A I E K V L I A N N T S V I I Q D E E V L A H R L G L I V P P I I V D P R L F E
UniRef90_T1G2S8	P T M A I E D R I E I R N N T S I V S D E I I A H R L G L I V P P I K A D A R L F E
UniRef90_A5DTC9	P S V A A I E T V Y V L Y M N T S V I I Q D E E V L A H R L G L I V P P K V D P D S L T
UniRef90_R7SCW2	P T V A I E D V Y V W N N T S I M Q D E E V L C H R I G M I P P L R I D P R E M I
UniRef90_D7UAJ8	P T M A I E K V L I A N N T S V I I Q D E E V L A H R L G L I V P P I P C G D R A R M K W
UniRef90_B2WCA1	P T L A I E D V Y I Y Q N T S V I I Q D E E V L C H R I G M I P P F K V E P E T
UniRef90_A0A023B010	P T M A I E T V H L Y Q N T G V I I Q D E E V L C H R I G M I P P I N S K E V D S Y S
UniRef90_C5LCN7	P T L A I E D T V T I E E N S S P L F D E F I V A H R L G L L P I T S H R V D E F E
UniRef90_M2XXQ9	P T M A I D L I H M Q V N T S S I H D E E L L A H R L G L I V P P L T S E G I N W L R
UniRef90_A6R4R6	P S L A I E T V Y I Y H N N T S V I I Q D E E V L A H R L G L I V P P L D R E G L R A M K
UniRef90_M2T8Z0	P T L A I E D V F I Y Q N T S V I I Q D E E V L A H R L G L I V P P I K V D P R K F N
UniRef90_F0ZYH1	P T M A I E K V Y I Y I N N T S V I I Q D E E V L A H R L G L I V P P I V S T N C D E M R
UniRef90_UP10004414E93	P T V A I D M V E I E S N T G V L V D E L L A H R L G M I P P I L A D P R K F K
UniRef90_B0EJB9	P T M A I E M V V L E D N S S A I P D E M L C H R I G M I P P I K V D P R L F E
UniRef90_K4DD13	P T M A I E K V L I A N N T S I I Q D E E V L A H R L G L I V P P I K V D P R L F E
UniRef90_M0S179	P T M A I E K V L I M V N N T S V V V A D E V L A H R L G L I V P P I N A D P R L F E
UniRef90_C9SI18	P T L A I E T V Y I Y Q N N T S V I I Q D E E V L A H R L G L I V P P F T A N K A G L R D
UniRef90_D8TPK6	P T L A I E D L V E M E N N T T V L N D E F I A H R L G L L P I V S T E A V I A
UniRef90_D3B3A4	P T M A I E R V F M I N N T S V I I L Q D E E V L A H R L G L I V P P I K V D P K I F N
UniRef90_A9SM40	P T L A F D L V E I E M N S S V L T D E F I A H R L G L I V P P L T S D R A M E M V
UniRef90_U5HJP4	P T I A I E T V Y Y V W K N T S V I V Q D E E V L A Q R I G L I V P P L R I D P R K L Q
UniRef90_A0A016PYN2	P T L A V E N V Y I Y E N N T S V I I Q D E E V L A H R L G L I V P P F K G G R E G L H N
UniRef90_A0A023F271	P T M A I E K V I V H Q N K T V M Q D E I I A H R L G L I V P P I L K A N P R L F Q
UniRef90_UP100032A666F	P T M A I E R V Y I Y H N N T S I I Q D E E V L A H R L G L I V P P I N A D P T L F E
UniRef90_F8NR44	P T I S V E R V Y V W D N T S V V V D E I I A Q R I G L I V P P I N V D P A W M

	50	60	70	80
UniRef90_A0A059LLC2	W R R S D E S L T D R N C T V F R L	K V R C W R D S N G S V Y S D A L E W L		
UniRef90_B9GFY9	Y L S A N D T P N E K N T I V L K L	H A R C N R G Q P C S V Y S Q E L K W L		
UniRef90_M7PLN2	F I K P G E N Q E P T D Y D T V V L S L	K V S C T R N P N S K V Y S G D I Q W Q		
UniRef90_J9I4J8	F S D K C A C O S S K C V N C S V Q F K L	H A V C S D R D Q M E V N T R H I N P L		
UniRef90_I4YBL8	Y N R D C V C L D H C P K C S V E L E L N	I K C T T P E T V L V T S N H L Q I K		
UniRef90_UP10004413648	F H E G V S T D R N T L V F R L Q V T C H K D E T D D N V	V Y S K H L T W V		
UniRef90_T1KCG6	Y R D E N D M E G T P Q D T I E L S L K	A V C C V K N P N R N V Y S K H L K W V		
UniRef90_D8QCE2	Y T R D C T C L S W C Q Y C A I E L V L D	V K C T E D D N S M D V T S K H L D V Q		
UniRef90_R8BYC5	F M K W Y K K D G A Y D F N T V K L E L K	V R C T R R Q H S A V Y A S E L K F C		
UniRef90_B9S9W7	Y L S A N D T P N E K N T I V F K L H A S C K R G E P R T V Y S E E L K W L	V Y A S E L K W L		
UniRef90_B6KGK1	N R D D C D C A D H C S R C S V Q Y A L D V V C E R D S L L V T H R D I V A D	L V T H R D I V A D		
UniRef90_R1CTV8	F R E R V G D E D P D E H H V A F R L E I V K C T R G N N S R V L L S S H L Q W I	V L L S S H L Q W I		
UniRef90_L8WJX6	F E D C T C L S R C K Y C S V E L Y L N	S T N Q P V D I T S N N L D V V		
UniRef90_R1DHL1	F N R D C D C M T T C P K C T A D F T L E V A C C N Q D E T L E V T T R E L K Y A	T T R E L K Y A		
UniRef90_A0A017SIW5	W F K K P T E D D P D D Y N T V L R L D E C T E N P P R K L Y H N A H V Y A	V Y A H V Y A		
UniRef90_E4ZXG8	W F H K A T G L E D S D Y N T V L R L N K K C E E T D P D K L Y I N H N V Y A	V Y A H V Y A		
UniRef90_S4NXL6	Y R A E D S T E G T E F D T L E F T L K I K C T S N E N H S V N S A S I K W H	V Y A H V Y A		
UniRef90_K5X518	F K A N L D S A T D D H N T I V F E L L D I T C T R N P P D E L Y I N H E V L S	V Y A H V Y A		
UniRef90_F6YSX7	Y R Q G D D A D G T P E D T L E F E L L N I K C T K N D L D V L Y K H H K V Y S	V Y A H V Y A		
UniRef90_F4S444	D M R G P E G A T D M N T L V F K L V A R C S R N P N V D V T S G Y L D W Q	V Y A H V Y A		
UniRef90_A7TPZ5	L N D L P E D F T D E N T I V L S L N V K C T R N P N A H I Y A R D L K F E	V Y A H V Y A		
UniRef90_D6WP50	M K T D P T A E G T E Q D T L E F A L K I K C T N N K N N V Y S K H I K W V	V Y A H V Y A		
UniRef90_A4S0F8	F E Y R G E G D A A N E T N T I V L K M H V R C H K E R N P P D V Y S N A L T W C	V Y A H V Y A		
UniRef90_H3AXA9	Y R N T G D E E G T E I D T L Q F Q L K V K C T R N P N H N V Y T R H L T W V	V Y A H V Y A		
UniRef90_D8PQE9	P R K D I P T D R D T I F D L A V A C T R Y D N H E V L S S H L K W R	V Y A H V Y A		
UniRef90_V4P7Y7	Y L S E N D Q P N E K N T I V F K L H A K C E K G E P R K V L T K E L I W L	V Y A H V Y A		
UniRef90_V5I0T0	W F K K P T E D D P D S D Y N T V V L R L D V E C T K N P N A H V Y A K D I T F H	V Y A H V Y A		
UniRef90_W9XB85	E P N A D S G V Q G T D R N T V V L K L N V K C C E R N P N A H V Y A R D L I E F M	V Y A H V Y A		
UniRef90_C4JJM6	W F R M P Q E G E E D D H N T I V L K L N A E C T K N P N A H V Y A R D L I V F E	V Y A H V Y A		
UniRef90_U6IM87	Y A R D C T C N A F C K D C A V E L N L D E F C T V E N K R N I T S A E L I S S	V Y A H V Y A		
UniRef90_G1XAZ6	K S P D E P A A E A T D F N T V V M T L K V A C C T R N H N S S V Y A R D I K F A	V Y A H V Y A		
UniRef90_UP100042B30F2	Y M S E N D Q P N E K N T I V F K L H V H C K R G S P R T V K S D E L K W L	V Y A H V Y A		
UniRef90_Q6FXP6	R L D T S D P D E F H D K N T I V M T L K V M T L K V C C T R N P N A H V Y A R D L K F E	V Y A H V Y A		
UniRef90_A7AQ72	Y R D N E D L S D K N S V C F H L K V E C K K E S N L P V Y A G D M K W V	V Y A H V Y A		
UniRef90_A0A044U881	M P D C N E E P A G D P K R N L I F E I K I T C S R N S P K E V Y E N A F V Y S	V Y A H V Y A		
UniRef90_14YFV5	F Q K G D S P N D Q N T I V F T L Q V A C T R Y E N H K V Y S K D F K W V	V Y A H V Y A		
UniRef90_Q01F02	K P Y E Y M G E D D S A T D V H L E I N V R C L T E Q A M D V T S E D M V S Y	V Y A H V Y A		
UniRef90_K1Y256	Y L K W L K K P E E S D Y N T I L L E I N V E C T K N D P L V L Y H N A H I Y A	V Y A H V Y A		
UniRef90_UP1000455EE0E	F K E S P S I Q A T D R N T L V F K L E V T C T R N N N S E V L S S D L R W V	V Y A H V Y A		
UniRef90_C5M6J2	D E S V D V N D R F T E D N T I V L S L D V T C T R N P N S N V Y A K D L L K F E	V Y A H V Y A		
UniRef90_S7RLW8	M R D S S G Q A T D R N T I V F R L Q A A C T R N H S E V L S S H L K W E	V Y A H V Y A		
UniRef90_U5DCR5	Y K S E N D A A T E K N T I V F K L H V K C C G K D S T R T V K S D Q L L K W L	V Y A H V Y A		
UniRef90_G0TON0	M K K T P D E P P T D L N T I V V F S L I A R C E R R K D V E V L S S N L S F S	V Y A H V Y A		
UniRef90_D8RH60	F N E K T N E D V A T E K N T I V F S S L E V K C T R Q G N A S V K S D Q L L K W L	V Y A H V Y A		
UniRef90_UP100035A1DFB	Y K P K D A E A G S S D D T L Q F S L K I R C S R N N N H K V Y S R D L E E W V	V Y A H V Y A		
UniRef90_B2A971	K P A N G D P A E C K D F N T V A L E I N V K C C E H N D P T K L Y H H A H V Y A	V Y A H V Y A		
UniRef90_J3QB55	D M R T D D E G A T D L N T I V F K L V V N C R R K P N V S V T T D A L E E W E	V Y A H V Y A		
UniRef90_M5G6J6	Y K R D C P C O L G I C R Y C A I V Y D I D V R C T E G E M N V T S D H L T M V	V Y A H V Y A		
UniRef90_A8N510	M D S R S P Q N D P T D R D T I V F K L V T C T R N P N H E V L S R D L V W S	V Y A H V Y A		
UniRef90_U1HJ21	T D V F L K P D E E N D Y N T I I M H L H V E C T Y N E N S D V Y A R D L V F A	V Y A H V Y A		
UniRef90_A9V9D0	Y R A D D G G Q P T D A N T I V F N L K R V C T K K P N A V I Y S R D L E E W A	V Y A H V Y A		
UniRef90_J4DPE1	F K N C E E I N D K N S V C F K L K V K Y D R N E P N S V Y S S F L K W V	V Y A H V Y A		
UniRef90_M1VXQ1	F L K W R K K P E E Y D W N T V R L E I N V T C A T N P N A H V Y A K D I V F V	V Y A H V Y A		
UniRef90_B6KLD3	Y R Q P N Q E V T D E N A L R V S L H V K C T E Q S S L P V Y A K H I K W E	V Y A H V Y A		
UniRef90_E3K9Z5	L I D M R T D D E G A T D L N T I V F K L V V N C R R N P P L K L Y Q N S L V T T	V Y A H V Y A		
UniRef90_B8MRS0	W F K K P T E E E P S D F N T V V L R L N V E C S V N E N A H Y A R D I T F H	V Y A H V Y A		
UniRef90_D8U6A9	F E A K V A E P S E K N T L V F K L D V T C T R K R G E N R M F S G Q L E E W L	V Y A H V Y A		
UniRef90_R7YJM6	L R W Y K K P T E E P S D F N T V V L G L D V E C T W H E N S S V Y A H Q L E F Q	V Y A H V Y A		
UniRef90_U6NL40	M P D C D E E P E P D T R N V V F N I N V T C T R N R N S I Y S R A F K W M	V Y A H V Y A		
UniRef90_UP10004449954	M R T V N D Q P T D R N T V V F K L N V V C E R N P P F E L Y T N H E V L S	V Y A H V Y A		
UniRef90_N4VXB6	F L K W Y R K P D Q G D Y N T V Q L R L N V Q C T R N P N A N V Y A K D I E F I	V Y A H V Y A		
UniRef90_K0KLJ2	W V D N S V D E S F T D A N T I V M T L D V S C T K N P P K E L Y R N S S I Y A	V Y A H V Y A		
UniRef90_J4I219	Y R E D V P T D R N T L V F R L N V A C E V D K S A S V K S G D L L E W I	V Y A H V Y A		
UniRef90_T1J5W7	F R E P G D E N G S P E N T L E F H K V R C S K R P H H D V Y S G D I K W I	V Y A H V Y A		
UniRef90_E6R474	Y R P S A N S Q P H E H D T V V F D L R V R C D R P P N V D V Y S G M L K W V	V Y A H V Y A		
UniRef90_W9QYH6	F A G N N T P H E E D S F T D A N T I V F K L H V R R K P N E P S V K S N E L I W S	V Y A H V Y A		
UniRef90_G3J8P4	F L K W Y K K A G G F D Y N T V R L E I N V T C T P N H N A H V Y A R D I V F V	V Y A H V Y A		
UniRef90_V4UNK9	Y M S E N D T S N E K N T I V F K L H V V L C E R G G G P R T V K T N E L K W L	V Y A H V Y A		
UniRef90_T1G2S8	Y R P K D S T E M T A T D S I G F K L Q V K C Q K N N H F K V T T K D L I W F	V Y A H V Y A		
UniRef90_A5DTC9	W V D K K L D E S Y T E D N T I V L T L D V V A C S K N K N S H V Y A R D L K F E	V Y A H V Y A		
UniRef90_R7SCW2	F R A N P N A G A L D T D T V V F Q L R V K C D R Q P D S D V Y T G M L E W E	V Y A H V Y A		
UniRef90_D7UAJ8	F D D L S E N D T P N E K N T I V F N L H V R C C E R G G G P R T V K S N E L K W L	V Y A H V Y A		
UniRef90_B2WCA1	Y A K P T D E E P T S E N T V A L T K T C T E T D P D R L Y V G H N V Y A	V Y A H V Y A		
UniRef90_A0A023B010	Y K Y R T E N E E L T A E N S L C F K L H V C T P E N L D Q V Y S R D F V W V	V Y A H V Y A		
UniRef90_C5LCN7	D P K D C Q C O Y S S C P N C T V K Y T L D V I A E D H G V T D V T H L D I Q P V	V Y A H V Y A		
UniRef90_M2XXQ9	Y R D C P C Y C S D H C L H C S V T F E L D V Q C C T E E A M T V T S Q D L V S V	V Y A H V Y A		
UniRef90_A6R4R6	W F R Q P T E G E L A D Y N T V V L H L N V E C T N N P H A H V Y A K D I T F H	V Y A H V Y A		
UniRef90_M2T8Z0	W Y S K P T E E D P T D W N T V V L R L E V E C K E T D P D K L Y V G H N V Y A	V Y A H V Y A		
UniRef90_F0ZYH1	F H L P N K E Y T A E D T L I F F K L V Q L R L I V K C E R D A N D T V L S K H L E W V	V Y A H V Y A		
UniRef90_UP10004414E93	Y T R D C N C L S S C S S C A V Q L E I K V S C C N T D N T L D V T S N H L E V V	V Y A H V Y A		
UniRef90_B0EJB9	F P K D R H F T D P T S E E D T I V F T L D V T C T L D S S N N K V Y S S D L I W E	V Y A H V Y A		
UniRef90_K4DD13	Y M S E N D V P N E K N T I V F K L H V R C C T K G S D R R V L S S E L K W L	V Y A H V Y A		
UniRef90_M0S179	Y L S E N D A P N E R N T I V Y K L D V S C C K K G S P R T V K S D Q L K W L	V Y A H V Y A		
UniRef90_C9SI18	F L R W R K P G D I F D Y N T V Q L R L I V K C E R D A N D T V L S K H L E Y V	V Y A H V Y A		
UniRef90_D8TPK6	W K R P F E W S N D A D M I E T A F S L D V T C T L D S V D N G M D V T S N D L V P L	V Y A H V Y A		
UniRef90_D3B3A4	Y K E P G K Y T A E D T L I F F T L K V R C C T Y K D A N G E V L S K H L E T W V	V Y A H V Y A		
UniRef90_A9SM40	F P D S C P G D R S C Q N C T V E F L L S V K A T E D R I K D V T Q R D L K S S	V Y A H V Y A		
UniRef90_U5HJP4	S N Q S P E D E P T D L N T V V F N L V A C C E R R K D T E V L S S Q L E F D	V Y A H V Y A		
UniRef90_A0A016PYN2	F L K W H K K P E A G G D D N T V R L E I L V T C T E N D P L K A Y H N A H V Y A	V Y A H V Y A		
UniRef90_A0A023F271	F R M P D D S V G T D T D L E Y E R V K C C V K N P H C V M S K D V K W V	V Y A H V Y A		
UniRef90_UP100032A666F	Y P D N A G G N E K N T I V F K L H V R C C G Q P R T V K S D E L K W L	V Y A H V Y A		
UniRef90_F8NR44	D T K E T T N D Q A T D R N T L V F R L K V A C C E R N K N S D V L S S H L E W E	V Y A H V Y A		

	90	100	110	120
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UniRef90_B9GFY9	P N G S E K P D S K P S N P S T V E D I	I L L A K L G P G Q E I E L E A H A V K		
UniRef90_M7PLN2	P A G R Q I E I F K D D P I R A V H D K I	L I A K L R P G Q E I D L T M H C V L		
UniRef90_J9I4J8	S E S S I M P V H Y V D S Q G K E E D P I	L I M K L S K N Q Q L D M N L I A R K		
UniRef90_I4YBL8	G Q V A N D T S G N L D P P P D N F G L	P I C K L R Q G Q E L R I N C I A K K		
UniRef90_UP10004413648	P Q G E Q A T F F A D H P P R P C N E N I	P I C K L R P G Q E I E V E L H A I K		
UniRef90_T1KCG6	P L G N Q S S F I K E T I K P V N D D I	L I A K L R P G Q E I D L K L H C V K		
UniRef90_D8QCE2	N V I Q P G Q P S G A E T Y R E P D A E P I	L I A R I R K G Q A L K V R C I A K K		
UniRef90_R8BYC5	P Q G R Q S E F F S E D A I A P V N P D I	L I A K L R P G Q E I D C E M H M H		
UniRef90_B9S9W7	P G G S Q K Q D F I P K P V S P S E D K I	I V A K L G P G Q E I E L E A H A V K		
UniRef90_B6KGB1	N A R G A S D L G C Y P M P V P K E M D G I	P I V K L R K N Q S V N M R M T A T K		
UniRef90_R1CTV8	P Q G D Q E E R F R E R E I K P V H D D I	D L I A K L R P G Q E I V L E A W C E K		
UniRef90_L8WJX6	P Q K R P P N F G T P I G K D P N V P P V	L L L C R I R K G Q E L R L R C I A K K		
UniRef90_R1DHL1	A D G R R R E D D G D F E P D A S G E H	L L L V K M R K G Q K L H I R A S A Q L		
UniRef90_A0A017SIW5	K D I T F H P V G R Q E E Y F P V N P D I	D M E L H C I K		
UniRef90_E4ZXG8	R D M I W E P I I G R Q A Q M F P P G P D I	L I A K M R P G Q E I A L S M H A H		
UniRef90_S4NXL6	P I G N Q A S V H K E T D V G P V H G D I	L I S K M R P G H E L D L H L V A V K		
UniRef90_K5X518	G H L R W K P A G D Q P A P G P T N P N I	V L L A K L R P G Q S V R M E L H A I K		
UniRef90_F6YSX7	K D I K W I P L G N Q K D V K P V Y D D I	L V V A K L R P G H I L D V K L H A V K		
UniRef90_F4S444	P K G D Q P A L F G S Q P P K A V Q D D I	L L V K M R P G Q E I S I E M H C V K		
UniRef90_A7TPZ5	P Q G K Q K E E T F A D S P V V I S A D P D I	P Q G K Q E I S L L R A H C I L		
UniRef90_D6WP50	P I G K Q K E R F S D V G P I H P D I	L I A K M R P G H E L D L K L L V A V K		
UniRef90_A4S0F8	P E G S Q L P E E N D Q E L G C V H D D I	L L V K L A P G Q E E V E L E C H C V K		
UniRef90_H3AXA9	P I G N Q A D L F A D V I R P V H E D D I	L I A Q L R P G Q E I D L L M H C V K		
UniRef90_D8PQE9	P V G E Q E E V F A N K P P A P T N P N I	V L A K L R P G Q A V H M E L H A V K		
UniRef90_V4P7Y7	P N G S S F P E F A N N P I T P S Y P D I	L I A K L G P G Q E I E L E A H A V K		
UniRef90_V5I0T0	P V G R Q E T Y F K D D E I Q P V N P D I	P V G R Q E I E M E M H C I K		
UniRef90_W9XB85	A Q G A Q Q E L F A K E P L E A V V S P D I	L I A K L R P G Q E I D L V M H A H		
UniRef90_C4JJM6	P V G R Q T T F G P D G E I Q P S N P D I	P V G R Q E I D I E M H C I K		
UniRef90_U6IM87	N P D V R P D T D D F R P F N V K R E P I	N P D V R P D T D D F R P F N V K R E P I	K I R A F A K K	
UniRef90_G1XAZ6	P Q G R Q S S W F S G A G E R P V N P D I	L L A K L R P G Q E I D L E I L H C V L		
UniRef90_UP100042B30F2	P N G S E L P E F A N N P I A P K Y P D I	L I S K L R P G Q E I E L E A H A V K		
UniRef90_Q6FXP6	P H S S Q V E T F A D C P V V P C D P D I	L L A K L R P G Q E I S L S T H C I L		
UniRef90_A7AQ72	P S D E Q A E L F K D N P P K P I H K D I	L L T K L S P G Q E I D L K A Y L E K		
UniRef90_A0A044U881	N A F K W I P I G D Q S V S L P V H D D I	L L V A Q L R P G Q E I E A R C H C L K		
UniRef90_14YFV5	P Q G G Q D P L F T D N P P R V A Y P E I	D L E I L H C V K		
UniRef90_Q01F02	D E R V K P I T F T Q G T V S D A A K P G I	D E R V K P I T F T Q G T V S D A A K P G I		
UniRef90_K1Y256	K D I K F K P F G N Q D A I E T T N P D I	L I A K L R P G Q C I E L E M H C I K		
UniRef90_UP1000455EE0E	P Q G E Q E E L F A A N I P T P S N P N I	P Q G E Q E E L F A A N I P T P S N P N I		
UniRef90_C5M6J2	P H G T Q A E K F R D T P V V P C D P N I	L I V A K L R P G Q E I S L R A H C I L		
UniRef90_S7RLW8	P Q G E Q D S V F A N C C P P A T T N P D I	P Q G E Q D S V F A N C C P P A T T N P D I		
UniRef90_U5DCR5	S R G G Q D E L F G D R P P K P A I D D I	T I A R L R S G Q E I E L E A H V V K		
UniRef90_G0TON0	P S F S C R Q D T I Q N Q D I A P R Y K D I	L L V A K L R P G Q E I V A E L H C V K		
UniRef90_D8RH60	P L P G Q D H L K N K G I G P V D K D I	L L V A K L R P G Q E I D M E L H A V K		
UniRef90_UP100035A1DFB	K D I V F K P I G R Q V I I R P V N P D I	L L V A K L R P G Q E I D V D D Y C V K		
UniRef90_B2A971	P K G D Q P E M F G A D P P R P V Q K D I	K D I V F K P I G R Q V I I R P V N P D I		
UniRef90_J3QB55	P P D Q W V P A G P A T D P D P N R R P I	P K G D Q P E M F G A D P P R P V Q K D I		
UniRef90_M5G6J6	P V G Q Q A E V F E G C Y P P A P I N P N I	P P D Q W V P A G P A T D P D P N R R P I		
UniRef90_A8N510	P V G R Q V E I R F D D P I V P M N P D I	P V G Q Q A E V F E G C Y P P A P I N P N I		
UniRef90_U1HJ21	P Q G Q Q E Q V F G K N G F S V V Y D D I	P V G R Q V E I R F D D P I V P M N P D I		
UniRef90_A9V9D0	P S S N Q E A T F K N N P P K P V H D N I	P Q G Q Q E Q V F G K N G F S V V Y D D I		
UniRef90_J4DPE1	P T G K Q V D Y F S G A D I R P V N P D I	P S S N Q E A T F K N N P P K P V H D N I		
UniRef90_M1VXQ1	P S P S Q K E A F A A N P P R A V H P D I	P T G K Q V D Y F S G A D I R P V N P D I		
UniRef90_B6KLD3	E A L E W E P K G D Q V P P R P V Q N D I	P S P S Q K E A F A A N P P R A V H P D I		
UniRef90_E3K9Z5	P Q G R Q T N Y F T D G E I Q P V N P D I	E A L E W E P K G D Q V P P R P V Q N D I		
UniRef90_B8MRS0	P G G S E L P F A D P T P K P V H D D I	P Q G R Q T N Y F T D G E I Q P V N P D I		
UniRef90_D8U6A9	P T G Q Q V Q Y F K D E P I V P N P D I	P G G S E L P F A D P T P K P V H D D I		
UniRef90_R7YJM6	P C G D Q E Q Q F A D D P P R I V H E D I	P T G Q Q V Q Y F K D E P I V P N P D I		
UniRef90_U6NL40	S H L K W E P A G E Q A V P A P T N G N I	P C G D Q E Q Q F A D D P P R I V H E D I		
UniRef90_UP10004449954	P T G R Q G E F F F S E D A I R P T N P D I	S H L K W E P A G E Q A V P A P T N G N I		
UniRef90_N4VXB6	R D L K F E P Q G N Q N P L E P A D P D I	P T G R Q G E F F F S E D A I R P T N P D I		
UniRef90_K0KLJ2	P Q G E Q A A V F A G C T P A P T N K E I	R D L K F E P Q G N Q N P L E P A D P D I		
UniRef90_J4I2I9	P I G S Q E T T M F K E E D V G P V D K D I	P Q G E Q A A V F A G C T P A P T N K E I		
UniRef90_T1J5W7	P S G D Q K K K G K A P K P V N N D D I	P I G S Q E T T M F K E E D V G P V D K D I		
UniRef90_E6R474	P K G S E F L L A S E D S K S A D M E N I	P S G D Q K K K G K A P K P V N N D D I		
UniRef90_W9QYH6	P M G E Q E T Y F S G A D I A P V N P D I	P K G S E F L L A S E D S K S A D M E N I		
UniRef90_G3J8P4	P N G S E L P L E T K P D S N P S S K D I	P M G E Q E T Y F S G A D I A P V N P D I		
UniRef90_V4UNK9	P V G D Q T Y T D E N E I P K P A D D D I	P N G S E L P L E T K P D S N P S S K D I		
UniRef90_T1G2S8	P Q G S Q L E K Y K D S P V V P C D P D I	P V G D Q T Y T D E N E I P K P A D D D I		
UniRef90_A5DTC9	P A G A Q K T K W K R K E P K P V D P D I	P Q G S Q L E K Y K D S P V V P C D P D I		
UniRef90_R7SCW2	P H G S E F P L F S D K S I I G P K H P D I	P A G A Q K T K W K R K E P K P V D P D I		
UniRef90_D7UAJ8	K D M R F E P P N G N Q A H I R S T N P D I	P H G S E F P L F S D K S I I G P K H P D I		
UniRef90_B2WCA1	P L S E Q Q K E Q Y P E P P R P V S E D Y I	K D M R F E P P N G N Q A H I R S T N P D I		
UniRef90_A0A023B010	D Q G T S I P E S R R P L P V P R R N G I	P L S E Q Q K E Q Y P E P P R P V S E D Y I		
UniRef90_C5LCN7	Q P V H F S G E Y N P T L S E E N G N G I	D Q G T S I P E S R R P L P V P R R N G I		
UniRef90_M2XXQ9	P V G R Q E T Y F Q D G V I R S A N P D I	Q P V H F S G E Y N P T L S E E N G N G I		
UniRef90_A6R4R6	P H G S E F P L F S D K S I I G P K H P D I	P V G R Q E T Y F Q D G V I R S A N P D I		
UniRef90_M2T8Z0	K D I E F K P I G R Q A E I R S T N P D I	P H G S E F P L F S D K S I I G P K H P D I		
UniRef90_F0ZYH1	P H D D Q I A M F E E D H P R P I V E D D I	K D I E F K P I G R Q A E I R S T N P D I		
UniRef90_UP10004414E93	P S R R V E N F G H P V G K D P S V A P V I	P H D D Q I A M F E E D H P R P I V E D D I		
UniRef90_B0EJB9	P Q G E Q E T T F A D C P I K P V F F D D I	P S R R V E N F G H P V G K D P S V A P V I		
UniRef90_K4DD13	P N G S E R P E F S D E P I A P K D A D I	P Q G E Q E T T F A D C P I K P V F F D D I		
UniRef90_M0S179	P H G S S L P E F S K K P L G V Q F D D I	P N G S E R P E F S D E P I A P K D A D I		
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UniRef90_D8TPK6	N P E H G V F P V N Y Q N P D E K P I V I	P S G R Q L E Y F D G N T V R P T N P D I		
UniRef90_D3B3A4	P T D D Q N E M F E A D H P R P A Y D D I	N P E H G V F P V N Y Q N P D E K P I V I		
UniRef90_A9SM40	P D P V E I L D V D K Q G V L E E C K M D I	P T D D Q N E M F E A D H P R P A Y D D I		
UniRef90_U5HJP4	P K G S Q A E L F G N D T P R A A S G I	P D P V E I L D V D K Q G V L E E C K M D I		
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UniRef90_B9S9W7	G	L	G	K	T	H	A	K	W	S	P	
UniRef90_B6KGB9	G	I	G	K	V	H	A	K	W	S	P	
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UniRef90_B4FAR4	P T M A I	E K V F M A D N N S V I I A D E V L S H R L G L I P P I K T D L S Q Y V P			
UniRef90_A2SSV7	P T L A I	E D I R I I Y D N T S V I I F D E M L A H R L G L I P P Y S D R A E K Y R			
UniRef90_I0A0E7	P T M A V	D N V L I L E N N N S V I L H D E V L A H R L G M I P P I D S T R I S E F F E R			
UniRef90_I718S9	P C L A I	E I V T V L E N D T P L H D E Y I I A H R L G L L I P P F S E S A N Q F R			
UniRef90_J7GAM7	P T M A I	D L I F V E I N S S I F H D E F I I A H R L G L I P P F S E K A K R L N			
UniRef90_A4HH22	P T L A I	E Y V T I R Q N T S V I L P D E M I A H R L G L V P P I F S E K A K R L N			
UniRef90_E8R7Q4	P T M A V	D Y V A I T E N S S V I F Y D E Y I I A H R L G L I P P K S D E A L H K			
UniRef90_Q8SSL9	P T M A V	R D I F L K E N E S V F P D E F I I A H R L G L V P P I E V D P E M F E			
UniRef90_UP10003F48E4E	P T V C I	D Q V L F A Q N T S P I P D E M L A H R L G M V P P I S R N V S K L R			
UniRef90_A9T5P0	P T M A I	E K V Y I I A N N T S V I I Q D E E V L A H R L G L L I P P I K A D P R L F D			
UniRef90_B7G229	P T L A I	D L V E F H E N S T V I I N D E Y I I A H R M G L I P P V R S D C S D A F L			

F H E K E Q Q D T Y T E D D S L R F K L H V R C T K K D P R N V L S G Q L K W I
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 UniRef90_T5AH65
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 UniRef90_M0WSU9
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 UniRef90_P16925
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 UniRef90_H2WFC7
 UniRef90_S8EGP7
 UniRef90_C1BZA1
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 UniRef90_J6EWL9
 UniRef90_L8FX09
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UniRef90_M1UX6	P R Y F D V P H R P D D R T S A D A G I	V I C K L R R G Q R L Y V R C I A K K		
UniRef90_T5AH65	P A G K Q A S Y F S D D A I R P V N P D I	L I A K L R P R Q T I N L S M H M H K		
UniRef90_A0A024G378	D P Y I R P V N F S S E E E F N N D T G V	L I A K L R P G Q H R L S A I A K L		
UniRef90_G2Q686	P V G R Q T K Y F S D D A I A P V N P D I	L I A K L R P G Q E I S L T M H M H K		
UniRef90_M0WSU9	P E G S Q L T M A S P A P L G V K Y K D I	T I A R L R P G Q A E L E A H A V K		
UniRef90_V4JVG1	P N G S E F P E F A N N P I A P S H L D I	L I A K L S P G Q E I E L E A H A I K		
UniRef90_UP10002C64BBF	P L G N Q T D L F P D A D F R P V H D D I	L I A L L R P G Q E I D V L M H C V K		
UniRef90_B3S4F3	Y N E D Q D N A I P N K D I R P V H E D I	L I A K L R P G Q E I D L E M I C V K		
UniRef90_P16925	Q D H T D E D A V R P I K V Y S I E V G I	P I I K L S K G Q Q H F E C E A Q K		
UniRef90_Q4UFV7	P L S N N Q E I F K D N P P K P V Y G D I	L I T K L G P G Q E I D L N M Y L E K		
UniRef90_H2WFC7	R A F E W V P I G D Q N E P R M V S D D I	R A K M R P G Q E I E A S C H A V K		
UniRef90_S8EGP7	P Q G E Q Q S V F P A G S P F P A N K N N	V L A K L R P G Q E I D M D L H A I K		
UniRef90_C1BZA1	K D I L L A K L R P G Q E I D I V M H C V K			
UniRef90_UP10002B42F50	P N G S E F P L F S N N P I G P K D S D I	I L A R L G P G Q E I E L E A H A V K		
UniRef90_J6EWL9	P S G Q Q K S K Y G K G E P R P V L D D I	L L V K L R P G Q M V D L L H C F A R K		
UniRef90_L8FX09	P V G R Q P E F F S D D T I T V T N P D I	L I A K L R P G Q C D L L D M H A I K		
UniRef90_M5WB66	P N G S E F P L F S S N P I A P A L G D I	L I A R L G P G Q E I E L E A H A V K		
UniRef90_W4JMB8	P Q G E Q A T V F P V P P A P T N P N D I	V L M K L R P G Q E V C M E M H A V V K		
UniRef90_E0VYJ4	P I G S Q G T T Y D E K N I G P V L P D I	L L N K L R P G Q E E D L K L H A V V K		
UniRef90_A0D2I2	P K G Q Q K A K L F A A N P I R P V H S N I	N L R L I C E K		
UniRef90_10YTG9	P N G S Q E A L L G P A G A R L V H D D I	L L A K M R P G Q E I V L E A H C V R		
UniRef90_UP100044182E4	G Q L E W V P Q G D Q A S P A P T N P D I	R P G Q E I E M E L H A V V K		
UniRef90_G7E608	P R Q D G Q D R G G F G M P M S E H N G	T L L A T A H R		
UniRef90_A0A059BYU3	P D S M P E F A G N P I S V Y P D I	E L E A H A V V K		
UniRef90_V7BNG0	P N G S E L P S E D V K P N T S S D S D I	I L A K L G P G Q E I E L E A H A V V K		
UniRef90_C5FSZ3	P Q G R Q E K Y F H D G V I Q S A N P D I	D I E M H C I K		
UniRef90_G0RE40	P T G R Q V E Y F S E N A I A P V N P D I	N L A M H M H K		
UniRef90_G7IXS2	P N G S E K S A A D P A P P A P Y N L D V	E L E A H A V V K		
UniRef90_A0A023B7T7	H N Q S P P L V P K P E D G G A G L I I A K L	T Q N Q S I K A E L L A F K		
UniRef90_V9DGN5	P Q G M Q A A N F G D E P I Q A V S P D I	D V V M H A H M		
UniRef90_V2Y1G5	P A G E Q E S A I E D G P R P P T N G K I	V L E V H A V V K		
UniRef90_K2RIG0	P T G R Q A E L F A E N A I Q P V N P D I	N L S M H C I K		
UniRef90_C4R920	P Q G R Q V E T F A D S P V V A A D P D I	S L K A H C I L		
UniRef90_R1GU26	P T G R Q S E I F A E N A I Q P V N P D I	D I E M H M H K		
UniRef90_F0XE51	P E G N Q P S V F S E N A I R P V N P D I	E A R C H C L K		
UniRef90_A8P6Y5	N S F K W I P I G D P Y P P S M V H D D I	L L V A Q L R P G Q E I		
UniRef90_A2F4R6	A P H K W K P A T L F A N G D S N P Q P V	T I T K L R P G Q T L R L A A Y I R K		
UniRef90_F1L0W8	K S F E W I P I G D P Y P P N M V H D D I	L L V A K L R P G Q E E E A R C H C V K		
UniRef90_J4GN18	E E M R G S N F G H P V G K D P N V P V	L I C K I R K G Q E L K V R C I A K K		
UniRef90_A0A024J764	G S A A Q L E Q F G G E A P V A L H P D I	D L Y A H A I L		
UniRef90_M2N9D3	P Q G E Q T Q H F S E N A I R P V N P D I	P I D L R C H C Y K		
UniRef90_C1MVZ5	D P R V A P V N Y H P P D D G P D I P G V	N M R C V A R K		
UniRef90_C1E0F4	P K G S E L P P D D P N E I A T V H D D I	L L C K M V A G Q E I E L E A H C V K		
UniRef90_F2UC17	S D I K W Q P K G N Q N K D R F P V H E D I	P I V E L R P G Q R V S M E L H C S K		
UniRef90_Q235X0	S Q G E Q N K N K F E E N P I R M V H D N I	I V A K L R E N Q E I I C E V I C Q K		
UniRef90_S8BXW2	P N G S S M P E F S G S T L R P T S D E I	T I A R L G P G Q E I E L E A H A V V K		
UniRef90_H3FVS3	P I G D Q K E R F A A N P P R M V H E D I	E A L V H C V K		
UniRef90_S3DCA3	K D L E F F V P F G Q Q A K H F S T N P D I	D I E M D A I K		
UniRef90_A7SL38	P T P Q Q A Q K F G P Q D I R P L S N V V	F F F T L R P G Q I I L D I K M H A V V K		
UniRef90_C5LDA1	P N A E Q E E R Y K D D P P R P V Y D D V	R C G Q E L E I K C F C C K		
UniRef90_M3CJH1	H Q I T F E P Q G Q R Q P E F P V N P D I	H M T M H C V K		
UniRef90_F6TR29	D A V T S R S R D N D P N D Y V E Q O D D I	L I V K L R K G Q E L R L R A Y A K K		
UniRef90_E3LHV2	G S F A W V P I G D Q K S N Y T D S D D I	L I V A K L R P G Q E E E A S C H A V V K		
UniRef90_S3BZ54	P E G R Q V Q Y F S G A D I A P V N P D I	D I E M H M H K		
UniRef90_W3XP53	P V G K Q E K Y F S D D V I R P T N P D I	D L E M H M H K		
UniRef90_W7TIN0	P M G E Q E T T R L A E R V P Q V A H P D I	K V E G W C R K		
UniRef90_J9K0P2	P L G N Q K D I F T E K D V G I L I S D D I	P L I A K L R P G Q E I E L K M F A V K		
UniRef90_A3CWH9	I P Q D P D A A P A D E K P I I E	A R D Q K I V L E A Q A I L V		
UniRef90_B6AC64	P M S S Q K Q I F E K K P P S V V Y P D I	E A I L Y C E K		
UniRef90_E5S6Q3	P I D G Q E E K F K N C P P K V V H P D I	E C V C H C T K		
UniRef90_UP10002C3E404	P Q G D D Q E T T F Q K D P I R V V L G D I	K C K L Y C C K		
UniRef90_Q9AW23	T P L K T F F I I N S G R N Y D D Y A I	I I A K L N P G Q Q N I K L K A Y V K K		
UniRef90_A0A022QIU7	P G G S E F P E F S S N P I A P T H D D I	T L A V L G P G Q E I E L E A H A V V K		
UniRef90_G2YZC4	K D I E F K P F G R Q L E Y F S P N P D I	T I A R L G M R P G Q V I D I D M H A I K		
UniRef90_UP10004416F1F	P A S R V I E N F G S P V V G K G V E G D P V	C K L R K G Q E L K V R C I A K K		
UniRef90_UP10002C33E47	P N G S N M P E F A T N P V G P T D G D I	T I A R L G P G Q E I E L E A L A V V K		
UniRef90_J7M4H7	E S Q S Q S I I Y G K N L P M P I P R D G I	P I V K L L K R G H S I N M K L T A T K		
UniRef90_A9BL73	D E N F F Y Q Q I N P I H Y S S D Q K P I	P I G K L G I Q G R I K L V A I A K K		
UniRef90_I1GQN8	P E G S Q Q K N I S G R S I G V K Y K D I	T I A R L G P G Q A I E L E A H A V V K		
UniRef90_C1MRA1	P N G S E L P P D D P N V I S T V H D D I	L L V K M V A G Q E I E L E A H C T K		
UniRef90_M4FGX3	E E S F P E F T D N P I T P S Y P D I	L I A K L S P G H E I E P E A H A V V K		
UniRef90_M7SAL9	S D I T T E L L G G Q Q A A V R P V Y P D I	L I I A K L M R P G Q E L D I D M H M H K		
UniRef90_J3NX08	P E G Q Q Q A D W F S D G V I G P V N P D I	R P G Q A I E L E M H A H V		
UniRef90_R7QCA5	G S I E H V P F G G N E V P R P V H E D I	C K L R P G Q E I H V E M D A T K		
UniRef90_A8Q352	P A P R H P D F G K P V G D D P N A N G V	P I V Q L R R K G Q H I K A R C I A R K		
UniRef90_F9XYB9	H Q F T F I P Q G N E N A I R P V N P D I	H L R V H C I K		
UniRef90_L0AY30	P N E A Q K L K F Q D D P P R P I H G D I	L L T A Y L E K		
UniRef90_G7E7N5	P Q G A Q E S M F D T D A P R P V Q D D I	D D L T A Y L E K S V E L H C N K		
UniRef90_L7LSV1	D D T N E Y G E T E D I	V K A R A Y A K K		
UniRef90_Q5CPY6	P S D N Q R K K F G K T P P K V V T D D I	D D T N E Y G E T E D I V K A R A Y A K K		
UniRef90_B4FAR4	P E G S Q L S M S A P A P L G V K Y K D I	P I V K L L R P G Q Q A I E L E A H A V V K		
UniRef90_A2SSV7	D E	N V V P V H N N I P I V V K L W E N Q K V	V L E A V A V A E V	
UniRef90_I0A0E7	D P	D I I Y P V F K D I P I V V L G K G Q K I	V L E A E A R L	
UniRef90_I178S9	L D I I P D E Y D T P L P L P R S G D G I	H L K L T A T K		
UniRef90_J7GAM7	N P K E S F F A K H V S P D F P R L E P I	P I I S K L S Q G Q R L K L I G V A K K		
UniRef90_A4HH22	G D S L Q I D S A E V P V P S A E E H G I	W L V T L G R S Q V L D L N V L I R K		
UniRef90_E8R7Q4	D P V T P V Y G K V P V V R T R N Q S I	R L E A Y A R L		
UniRef90_Q8SSL9	P V G S Q R E I F R D V K F F S S S R V	S A E L V C T K		
UniRef90_UP10003F48E4E	P N P Y G P P L G Q P V G K D P A T P P I	D L T C K A Y S		
UniRef90_A9T5P0	P E G S E M P F N T A E G I S C Q Y P D I	E L E G H A I K		
UniRef90_B7G229	N E L V Q P F L S Q D E Q D E A Q D E G V	N K L K A I A R M		

UniRef90_J9IMY5	G	I	G	K	T	H	A	K	W	S	P
UniRef90_M1UUX6	G	T	G	R	E	H	A	K	W	S	P
UniRef90_T5AH65	G	I	G	A	D	H	A	K	F	S	P
UniRef90_A0A024G378	G	I	G	K	E	H	A	K	W	S	P
UniRef90_G2Q686	G	V	G	S	D	H	A	K	F	S	P
UniRef90_M0WSU9	G	V	G	K	V	H	A	K	W	S	P
UniRef90_V4JVG1	G	I	G	K	T	H	A	K	W	S	P
UniRef90UPI0002C64BBF	G	I	G	K	D	H	A	K	F	S	P
UniRef90_B3S4F3	G	T	G	A	D	H	A	K	F	S	P
UniRef90_P16925	G	I	G	K	M	H	S	K	W	N	P
UniRef90_Q4UFV7	G	I	G	K	V	H	S	K	W	S	P
UniRef90_H2WFC7	G	I	G	R	D	H	A	K	F	S	P
UniRef90_S8EGP7	G	V	G	K	E	H	A	K	W	S	P
UniRef90_C1BZA1	G	I	G	Q	D	H	A	K	F	S	P
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UniRef90_J6EWL9	G	V	G	A	D	H	A	K	Y	S	P
UniRef90_L8FX09	G	I	G	A	D	H	A	K	F	S	P
UniRef90_M5WB66	G	I	G	K	T	H	S	K	W	S	P
UniRef90_W4JMB8	G	V	G	K	D	H	A	K	F	S	P
UniRef90_E0VYJ4	G	L	G	K	D	H	T	K	F	S	P
UniRef90_A0D212	G	V	G	K	R	H	A	K	W	S	P
UniRef90_10YTG9	G	T	G	A	E	H	A	K	W	S	P
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UniRef90_G7E608	G	I	A	L	D	H	A	K	F	C	P
UniRef90_A0A059BYU3	G	V	G	K	T	H	A	K	W	S	P
UniRef90_V7BNG0	G	I	G	R	T	H	A	K	W	S	P
UniRef90_C5FSZ3	G	I	G	A	D	H	A	K	Y	S	P
UniRef90_G0RE40	G	I	G	A	D	H	S	K	F	S	P
UniRef90_G71XS2	G	I	G	K	T	H	A	K	W	S	P
UniRef90_A0A023B7T7	G	I	G	K	V	H	T	K	W	S	P
UniRef90_V9DGN5	G	K	G	G	D	H	A	K	F	S	P
UniRef90_V2Y1G5	G	V	G	K	D	H	A	K	F	N	P
UniRef90_K2RIG0	G	I	G	S	D	H	A	K	F	S	P
UniRef90_C4R920	G	L	G	S	D	H	A	K	F	S	P
UniRef90_R1GU26	G	I	G	A	D	H	A	K	F	S	P
UniRef90_F0XE51	G	I	G	S	D	H	A	K	F	S	P
UniRef90_A8P6Y5	G	L	G	R	D	H	A	K	F	S	P
UniRef90_A2F4R6	G	I	G	R	N	H	A	K	W	S	P
UniRef90_F1L0W8	G	I	G	R	D	H	A	K	F	S	P
UniRef90_J4GN18	G	I	A	K	E	H	A	K	W	S	P
UniRef90_A0A024J764	G	V	G	S	D	H	A	K	F	S	P
UniRef90_M2N9D3	G	I	G	M	D	H	A	K	F	S	P
UniRef90_C1MVZ5	G	V	G	R	D	H	A	K	W	Q	P
UniRef90_C1E0F4	G	Q	G	K	E	H	A	K	W	S	P
UniRef90_F2UC17	G	V	G	K	D	H	A	K	W	S	P
UniRef90_Q235X0	G	I	G	K	T	H	A	K	W	S	P
UniRef90_S8BXW2	G	M	G	K	T	H	A	K	W	S	P
UniRef90_H3FVS3	G	I	G	R	D	H	A	K	F	S	P
UniRef90_S3DCAA3	G	Q	G	S	D	H	A	K	F	S	P
UniRef90_A7SL38	G	V	G	K	D	H	A	K	F	S	P
UniRef90_C5LDA1	G	I	G	K	V	H	A	K	W	S	P
UniRef90_M3CJH1	G	I	G	A	D	H	A	K	F	S	P
UniRef90_F6TR29	G	F	G	K	E	H	A	K	W	N	P
UniRef90_E3LHV2	G	I	G	R	D	H	A	K	F	S	P
UniRef90_S3BZ54	G	I	G	A	D	H	A	K	Y	S	P
UniRef90_W3XP53	G	V	G	S	D	H	S	K	F	S	P
UniRef90_W7TIN0	G	V	G	K	D	H	A	K	Y	S	P
UniRef90_J9KOP2	G	I	P	D	H	A	K	F	Q	S	P
UniRef90_A3CWH9	G	T	G	K	E	H	A	K	W	Q	P
UniRef90_B6AC64	G	I	G	K	T	H	A	K	W	S	P
UniRef90_E5S6Q3	G	I	G	R	D	H	A	K	F	S	P
UniRef90UPI0002C3E404	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_Q9AW23	G	I	G	K	E	H	S	K	W	N	P
UniRef90_A0A022QIU7	G	M	G	K	T	H	A	K	W	S	P
UniRef90_G2YZC4	G	I	G	R	D	H	A	K	F	S	P
UniRef90UPI0004416F1F	G	I	S	K	E	H	A	K	F	S	P
UniRef90UPI0002C3E47	G	I	G	K	T	H	A	K	W	S	P
UniRef90_J7M4H7	G	L	G	K	F	H	A	K	W	S	P
UniRef90_A9BL73	G	I	G	K	E	H	A	K	W	S	P
UniRef90_11GQN8	G	V	G	K	V	H	A	K	W	S	P
UniRef90_C1MRA1	G	D	G	K	E	H	A	K	W	S	P
UniRef90_M4FGX3	G	I	G	K	T	H	A	K	W	S	P
UniRef90_M7SAL9	G	F	G	W	D	H	S	K	Y	S	P
UniRef90_J3NX08	G	Y	G	W	D	H	A	K	F	S	P
UniRef90_R7QCA5	N	I	G	R	E	H	A	K	F	S	P
UniRef90_A8Q352	G	F	A	K	E	H	A	K	W	S	P
UniRef90_F9XBY9	G	I	G	A	D	H	A	K	F	S	P
UniRef90_L0AY30	G	I	G	K	T	H	S	K	W	S	P
UniRef90_G7E7N5	G	N	G	K	T	H	A	K	W	S	P
UniRef90_L7LSV1	G	F	G	K	E	H	A	K	W	N	P
UniRef90_Q5CPY6	N	I	G	R	V	H	A	K	W	S	P
UniRef90_B4FAR4	G	T	G	N	V	H	A	K	W	S	P
UniRef90_A2SSV7	N	Y	G	K	E	H	A	K	W	Q	P
UniRef90_I0A0E7	G	R	G	K	E	H	I	K	W	S	P
UniRef90_I178S9	G	I	G	K	L	H	A	K	W	S	P
UniRef90_J7GAM7	G	I	G	L	E	H	A	K	W	S	P
UniRef90_A4HH22	N	I	A	K	T	H	A	K	F	M	P
UniRef90_E8R7Q4	G	R	G	K	E	H	A	K	W	S	P
UniRef90_Q8SSL9	N	V	G	K	V	H	A	K	W	S	P
UniRef90UPI0003F48E4E	G	I	A	K	F	H	A	K	W	S	P
UniRef90_A9T5P0	G	S	G	N	I	H	A	K	W	S	P
UniRef90_B7G229	G	I	S	K	E	H	A	K	W	C	P

1 10 20 30 40

UniRef90_J8TJ70	P T L A I D Q V S F Y Q N T S P I P D E M L A H R L G M V P L I S R D V G K L R	
UniRef90_B0CTH8	P T V C I E N V Y V W D N T S V V D E V L S Q R L G L I P P L N I D P D L I V	
UniRef90_UP10002658A5D	P T M A D R I T L I N N T S F I H D K D L T N R I G L V P P I R V D S R L	
UniRef90_Q12ZR3	P T L A I D D V N I Y N N T S V L D E Q L A L R L G L I P P L T T S F D D F V P	
UniRef90_Q5KG24	P T I A I D Q V L F M Q N T T P L A D E M A H R L G L I P P L I S R N V S K L R	
UniRef90_M3A449	P T L A I E D V F I F D N T S I I Q D E E V L A H R L G L I P P L T G D G L R W M H	
UniRef90_G4MQN0	P S L A I E R V F I T N N T S V I I Q D E E V L A Q R L G L I P P L K G S K E G L R K	
UniRef90_N1PBK3	P T L S I E D V Y F F D N T S I I Q D E E V L A H R L G L I P P L T G K G L R E M R	
UniRef90_H8I735	P K M A I D Y V D I Y D N T S V M F D E M A H R L G L I P P L K T N L N M Y K L	
UniRef90_F0Y1J0	S M A I D L V T F E E N T S V V N D E I I A H R L G L I P P L I N D R D I R R F R	
UniRef90_L0B0C7	P A L A L E I V T V L E N T S V L L H D E Y I S H R A H R L G L I P P L D S T L A S E F E	
UniRef90_H9GUD4	P T M A I E K I F M A D N T S V I I A D E V L S H R L G L I P P L T S D D V D K L Q	
UniRef90_K3XJ25	P T F A I D D L N I Y N N T S V L L Y D E Q L G L R L G L I P P L D A D P R L F D	
UniRef90_D7E8Q4	P T I A I D L V E I E N S S V L A D E F P A H R L G L I P P L A T E N I D D Y T	
UniRef90_L1JYV0	P T L A V E T V Q L I Y Q N T G V I Q D E L L A H R L G L I P P F A I D P D L F N	
UniRef90_Q4N473	P T M A I D Y V A F M E N S S V F Y D E Y L A H R L G L I P P L T S D Q A L W K	
UniRef90_D5U3F4	P T M A I E Y V N F Y K Y N G V I P E E I I A H R L G L I P P L I D P K V	
UniRef90_J8ZX59	P T M A I D W I Q L E A N S T V I P T V A L E N I Y M W E N S S L I H D E V L S H R L G L I P P L V I D R I Q	
UniRef90_F4X4P8	P T M A I D I V Q F D K N Y T V I P E E M T T D R L G L I P P L K I D A R L L D	
UniRef90_B5Y3D1	P T L A I D I V N V Y E N T S P F H D E F P A H R L G L I P P L I D S R N I K N Y E	
UniRef90_Q7RLX3	P T M A I S T V F M N N N T S V M Q D E V L C H R L G L I P P L I K A D A N D F D	
UniRef90_D8XL7	P S I A I E R V Y M R Q N T S V I I P D E M F A H R L G L I P P L N V D P D Q L T	
UniRef90_U6IM36	P V L G I E E V T I I R N T S I I P D E M F A H R L G L I P P L Y S M K A R R M S	
UniRef90_W6KEL3	P T L S V D L V Y I E K N S S L L H D E F P A H R L G L I P P L D S Q N I K N L N	
UniRef90_F2HIB5	P T L A I E D L R I Y D N S S V L F D E I I L A H R L G L I P P L K T D L T R F V K	
UniRef90_J0RYG1	P T L A I D I V Q F D K N Y T V I P E E M T T D R L G L I P P L E S S L V E K Y L	
UniRef90_I3E110	P V L A I D W I R I E E N T T V L I D E F P A H R L G L I P P L H C E E V D K M Q	
UniRef90_D0NVB1	P T L A I D E V N I Y N N T S V L L Y D E Q L A L R L G L I P P L V T I F N E F T	
UniRef90_E4XCX5	P S M A I E K V V Y L T N T S I I Q D E E V L A H R L G L I P P L R C D P D F F F F	
UniRef90_D5EC45	P T L A V D Y V D F Y L N T S L L Y D E I I A H R L G L I P P L K T D L E R Y N	
UniRef90_D2UXC7	P T L A I E D V R I Y D N T S A L F D E M I A H R L G L I P P L R T D L T S Y S T	
UniRef90_D3RX00	P T I A I D M V E I E R N N T V L P D E V L A H R L G L I P P L V Y S K R E L K	
UniRef90_A7IAH5	P T L A I E S V T V I E N T S V L L A D E M I A H R L G L I P P L F S M K A R E M N	
UniRef90_E0S711	P V M A I D Y V E F I D N N T S V L Y D E I I L A H R L G L I P P L D S R E A I K S S	
UniRef90_S9WAD7	T I A V E N V W V W Q N T S V M Q D E V L A S R L G L I P P L R I N P A R L E S	
UniRef90_G0EF28	P S M A I E K V H I Y N N N T S I I Q D E V L A H R L G L I P P L R A D P R M F E Q	
UniRef90_M5G5V5	P T V R I E N V F I V E N T D L A V A N S R L G L I P P L R R V F I G E L Q	
UniRef90_X1XW65	P S L A I E V V T V L E N T S V L H D E Y I A H R L G L I P P L I E S S A R N F E	
UniRef90_L5LRT6	P T M A V D Y V V F Y M N T S F L L Y D E I I A H R L G L I P P L K T D L E R F N M	
UniRef90_A7AWB4	P T I A I E K V N I F Q N T G V I A D E I I L C H R L G L I P P L P F K F D A D L L N	
UniRef90_D2RD94	P T I A V E E V F I H A N T S I I Q D E V L A H R L G L I P P L V I N P E R I N A	
UniRef90_Q7RN53	P T L R I E E V I I Y E N D T P M Y D E M A H R L G L I P P L R V D D I D Q F E	
UniRef90_Q6C4T2	P V F A I D Q V L I V N N T S S M Y D E M A H R L G L I P P L T T P L D L F P K	
UniRef90_Q8TVB8	P K L A I E D V N I V K N E S A M F D E V L A H R L G L I P P L T P L V S D S I E G L V	
UniRef90_F2L3Y7	P T M A I E T V E I L K N D A K I F D E A L A H R L G L I P P L K T D L E S M V	
UniRef90_R9SN57	P T I A I Q N V K V Y E N T S C L P D E Y I A H R L V G L I P P L I S A N V D N F N	
UniRef90_F0TBA8	P T M A I D L V E Y H E N S S V L H D E F I A H R L G L I P P L T S S A A M Q M R	
UniRef90_G0QT24	UniRef90_R4WPS2	P T M A I D L W V Q I D A N S S V L H D E F I A H R L G L I P P L F K V N P K K L K
UniRef90_A3DMQ6	P T L A I E D V N I Y K N D A K M F D E V L A H R L G L I P P I V T D L D S Y V	
UniRef90_B8BWN8	P V M A I D V V F E N N T V L Y D E I I A H R L G L I P P L T S K E A L Q K	
UniRef90_B8GEG5	P S F A I E C C Y I L N N T S V I I Q D E V L A H R L G L I P P I V G N H E T M R N	
UniRef90_F7XMN5	P V M A I D E V Y I I E N N S P L Y D E E V L A H R L G L I P P F S S D D A I D F Y	
UniRef90_I3TDW7	P V F A I D T V D I I E N S S V L L P D E G L A H R L G L I P P L Q T D L S R F N E	
UniRef90_B8CCH8	P S F A I D R V Y L Y Q N T S V I I A D E T F C H R L G L I P P L N V D P D K M S	
UniRef90_S5ZUX9	P V L A I D E V I I L D N T S V I I Y D E V L A H R L S M M P I K T D L R K L P K	
UniRef90_K0SEJ9	P T I A I D T V V V H E N S S I I I A D E I F S H R L G L I P P M N I D P R L F E F	
UniRef90_UP1000359C8E5	P T V S I I D K I S I I D N T S V L L P D E F L A H R L G L I P P L N V S P E D L D F F	
UniRef90_U6KRY9	P T M A I E K V F V Y N N T S V L R D E L V A Q R L G L I P P I M A D P E I F S	
UniRef90_Q2NFZ6	P T L A I D T V T I H S N T S V F C D E F I A H R L G L I P P T S D N V E R L R	
UniRef90_A2BK79	P V L A F D R V L I E E N D G V V P D E V L C H R L G L I P P L A G P V T W M K	
UniRef90_U4L7M8	P T L A I D D V N I Y N N T S V L F D E Q L A L R L G L I P P I T T D L S E Y V R	
UniRef90_W7L8P7	P S M A I E R V Y F R Q N T S V I I A D E I F A H R L G L I P P I T T D L S E Y V R	
UniRef90_F3KMA8	P T I A I E D V Y I I E N N S P L Y D E E V L A H R L G L I P P L T S N M E D F V	
UniRef90_U6HYJ3	P T I A I D L V E I I K N N T V L L P D E I I L A L S F G L I P P M Y S K K D L V	
UniRef90_E1QSA7	P T L A F D R I L I F D N D G V V L D E L L S H R I G L V P P V A G P V H K L E	
UniRef90_C6LSX9	P T M A V E E V M V I E N T S S V Y N E V L T H R I S L I P P F R T D L E N F V	
UniRef90_R0KMW6	P T L A I H F V D I I E N T S P L S D E F L A Q R L G L I P P L V S Y A A D S K M	
UniRef90_L1IH90	P K L A I E Y V N M Y R N D A R M F D E V L A H R L G L I P P L K A D P I E G L K	
UniRef90_E5SQN3	P V M A V D E V Y F I E N N S P L Y D E E V L A H R L G L I P P F V S D E A L E H Y	
UniRef90_G0UYR5	P T L A I E Y V N I Y E N T S V L Y D E Q L A L R L G L I P P L V T D V E T Y V P	
UniRef90_W9DQA6	P T M A I E T V E F L K N D A R I F D E A L A H R L G L I P P L K T D L E A L V	
UniRef90_K8F3D5	P T I A I H S V E F E E N T S V L P D E M A H R L G L I P P L I M	
UniRef90_H1YWA0	P V M A V D D V Y I I E N N S P L Y D E E V L A H R L G L I P P F S S D E A I D H Y	
UniRef90_L0KZP7	P V F A F D R L I I E H N D G V V P D E L L A H R L G L I P P L A G P V S S M Q	
UniRef90_R0KLT4	P T I A I D L V E I I K N N T V L L P D E I I L A L S F G L I P P F E S N D A I D Y Y	
UniRef90_S9V4X7	P T L A F D R I L I F D N D G V V L D E L L S H R I G L V P P V A G P V S R M E	
UniRef90_H2KQJ0	P S I S I E R V Y L Q N T S V M P D E V L C H R L G L I P P L K T D L K R F A E	
UniRef90_UP100035E7323	P T M A V E E V M V I E N T S S V Y N E V L T H R I S L I P P F R T D L E N F V	
UniRef90_A0ID17	P T L A I H F V D I I E N T S P L S D E F L A Q R L G L I P P L V S Y A A D S K M	
UniRef90_D9PV73	P K L A I E Y V N M Y R N D A R M F D E V L A H R L G L I P P L K A D P I E G L K	
UniRef90_P39471	P V M A V D E V Y F I E N N S P L Y D E E V L A H R L G L I P P F V S D E A L E H Y	
UniRef90_Q46GD0	P T L A I E Y V N I Y E N T S V L Y D E Q L A L R L G L I P P L V T D V E T Y V P	
UniRef90_U6EDP0	P T L A I E T V E F L K N D A R I F D E A L A H R L G L I P P L K T D L E A L V	
UniRef90_J3PTY6	P T I A I H S V E F E E N T S V L P D E M A H R L G L I P P L I M	
UniRef90_F4B765	P V M A V D D V Y I I E N N S P L Y D E E V L A H R L G L I P P F S S D E A I D H Y	
UniRef90_D0AO6	P V F A F D R L I I E H N D G V V P D E L L A H R L G L I P P L A G P V S S M Q	
UniRef90_V6LY42	P T I A I F D T A V V S I N T S V I P D E V L C H R F A M V P I Q V D P R I F S	
UniRef90_H2C85	P V M A V D E V Y V I E N N S P L Y D E E V L A H R L G L I P P F E S N D A I D Y Y	
UniRef90_W6LAR9	P T M A F D R V L L Y E N D G V V L D E L L S H R I G L V P P V A G P V S R M E	
UniRef90_V6AS69	P V F A I D T V D I I E N S S V M S D E G I A H R L G L I P P L K T D L K R F A E	
UniRef90_E1ZC65	P T I A I E L V E F E A N T T V L N D E F L A H R L G L I P P L V S T R V H D M K	

	50	60	70	80
UniRef90_J8TJ70	Y T R D C D C D E G C Y Y C M V T L R L K V S A V N R E P M A V T S D M L E V I			
UniRef90_B0CTH8	M K E T S A D Q A T D R N T I V F E I K L T C E R N P N H E V L S S H L V W K			
UniRef90_UP1002658A5D	F E N R N P E Q P A S S Q D T V V F E L H I R C T K N S N S V Y S G H L T W V			
UniRef90_Q12ZR3	Q D K C T C D G A G C P A C T V S L T L S V E T D E S G Q T I V H S G D I V S S			
UniRef90_Q5KG24	Y T R D C D C D E G C Y Y C M V T L R L K V T N D G E Q F M R V T S D M L E V V			
UniRef90_M3A449	W F K K P P P Q S D S D F D F N T V V M T L N V V T C R S T D P T E K Y V N S N V Y A			
UniRef90_G4MQN0	F M K P F K F D N S F D F N T V N L R L N V K C T R N P K P N V Y A S D I E F V			
UniRef90_N1PBK3	W F K K P P P K D P N D F N T V V L S L Q V E C R E T D P K E K Y A N S N V Y A			
UniRef90_H8I735	K E E C D C K G A G C A L C Q V T F T L S A E G P C M V H S R D L K S S			
UniRef90_F0Y1J0	H T R R D C D C D S H C D F C A A T L K L H V E H E K N N P L T V T T L D L V S D D			
UniRef90_L0B0C7	F R E K C Q C Q S D K C A K C T V D Y T L D V S C D C D A D S K V V T H F D I I A D			
UniRef90_H9GUD4	Y S R D Y I C D E F C P E C S V A F T L D I R C N K D Q T H V T S R Y L I S N			
UniRef90_K3XJ25	Y I S E N D V P N E R N T I V Y K L H V S C P K K G S Q T V K S G E L L E W L			
UniRef90_D7E8Q4	T Q D E C T C E E G C P S C E V S I T L S A E G P K M V Y S G D L I S S			
UniRef90_L1JYV0	F R D W H H E A S D D K D C E I K F E L E V R N T E D N P M E V R L I L I R L L			
UniRef90_Q4N473	F K S N F N C E E I N D K N S V C F K L K V K Y N K D Q S D Y L S S N S L M F			
UniRef90_D5U3F4	Y K S P E E C R E F S E D C F V R L S L E G E G G D E A V T L Y S D N L V S S			
UniRef90_J8ZX59	F E Y K N S T D T E N E K N A L K F V L K K Q N N M N D I V V V T S D D L K W V			
UniRef90_F4X4P8	Y T R D C Q C Q M D F C P E C S V E F T L D V K C T E E Q T R H V T T A D F K S S			
UniRef90_B5Y3D1	E Q D D D D P P S T P D R N T V V F R L G V S C G S D P N K H V Y Y S K D L V W V			
UniRef90_Q7RLX3	F R E R C K C K E T C S R C T V Q Y I E V K C C N N A N K I D V S H Y D I E A L			
UniRef90_D8XL7	Y I C P P G E S D F T D K N S L K F N L R V T C P S N R R N V E V Y Y S Q S L E L E			
UniRef90_U6IM36	F P D T D D D L D G F F D P K C H L I F D V K I A N Q E N N N P I H V Y S S C L Q W V			
UniRef90_W6KEL3	Y A R E C P C O E G G G C S D C T I T G E L H V E C P E D Q Y S M Q V F V			
UniRef90_F2HIB5	Y S M D C E C O N S Y C Q L C S R V F E L I T A N E L K H V F S T H L K Y S			
UniRef90_J0RYG1	Q D R C S C E G A G C P L C S V T F T M S V E G P G I V Y S G D L I S			
UniRef90_I3E110	Y P K D C S C K S F C K N C S I S I V L D V K N D G Q T P M T V T S K S L F V E			
UniRef90_D0NVB1				
UniRef90_E4XCX5	Y I R D C S C C D N F C N D C T V E F T L D V T C F K D P E H S V Y S R D L E W V			
UniRef90_D5EC45	P H E E C S C E E G C P A C T V S L T L S V E A P M D E D K T V Y S G D L V S A			
UniRef90_D2UXC7	A R D I N Q N E D L L D N E Y I L F E L N V T C E K N Q N K L E Y K H S K V Y S			
UniRef90_D3RX00	F Q D K C V C E E G C P N C Q V S L R L N V E G P K T V Y S G D L			
UniRef90_A7IAH5	Q G D C S C G G G A G C S T V T Y T L S V E G P K L V T S S D L I P Q			
UniRef90_E0S711	Y K D E C S C S G F C S E C S V V F E I I D V V H T E D A L R V S T R D I I C D			
UniRef90_S9WAD7	Y A R E C L C G G G C E E C T I T G R L I V E C P P E E H A R Q V F V			
UniRef90_G0EF28	Y K K P E E F Q E S C P C G C F A T L L E V E T G V D E V R M V Y S G D L L Q S S			
UniRef90_M5G5V5	W T P P N A V P T D A N T I S F E L V Q V T C T S R P P S E L Y E N S S I Y A			
UniRef90_X1XW65	Y K A N E T D P P T A Q D S L E F F E L V K V C T R K D S T E V T N N D N M Y R			
UniRef90_L5LRT6	Y S R D D C T C C E E L C P C E C S V V E F T L D V V R C C N E D Q T R H I T S R D L I S N			
UniRef90_A7AWB4	Y R D K C T C O S D K C S R C T V E Y S L D V K C M D D T R V V T H Y D I S W E			
UniRef90_D2RD94	P D K C V C G G G E C P N C Q V S F R L N V E G P K V V Y S G D L I S E			
UniRef90_Q7RN53	Y K D P Y E K Y N N L N C F C F K L H V K C N S I N N N K I Y S K D L K W C			
UniRef90_Q6C4T2	L P R G L D A S E Y D D S N T F V L R L N V T C E R M K N A H I Y A R D I T F D D			
UniRef90_Q8VTB8	L P D L C D C G G G C E K C Q V R A E L I E V E G P T K V Y A R D L K F D			
UniRef90_F2L3Y7	I E E C T E T G M V D P A E C T V R F T L Q V T A D D A K T V Y S G D L V S D S			
UniRef90_R9SN57	L P D E C D O D D Y C P K C S V S F T L N K K G P G V V Y S K D L V S S			
UniRef90_F0TBA8	L A S D C D C D E D Y C P T C S V T T L L K E K G P K T V Y S G D L Q S Q			
UniRef90_G0QT24	Y I W N C D C O K G E C D R C A V H F V L K V Q N Q G N T T M E V T S L D L R S L			
UniRef90_R4WPS2	F S R D C D A C D D G C E F C S V E F T L N H A R A E S D Q T L E V T S N D L R S L			
UniRef90_A3DMQ6	Y K S P E E C R E F S E D C F V K L D E G K G E E G K L V T L H S G D L K T S S			
UniRef90_B8BWN8	A D R C T C E G A G C D R C S T M Y T L S V E G P G M V Y S R D L I P S			
UniRef90_B8GEG5	P K D E C N C O E D D V C P A C E L S T L S V E G P K M V Y S G D F V S A			
UniRef90_F7XMN5	Y K P P E E C R E F S E D C F V K L L S G E G T P G G G V K T L Y A G D L L V			
UniRef90_I3TDW7	E Y G V D V D E V G T D R N T I V F R L N E S P H R P F T K H Y T R D L L W A			
UniRef90_B8CCH8	Y D A L R E L Y E D G K D P Q V I F T L D E E A V E R P K T V L S G H L R F E			
UniRef90_S5ZUX9	P H R E C V C O Y D R C P R C S V V E F T L D V Q E Q E R D L P T V T S R D L I S N			
UniRef90_K0SE9	Y S R D C T C O E F C P R C S V V E F T L D V R C C N E D Q T R H V T S R D L I S N			
UniRef90_UP1000359C8E5	F R N P N Q E L S E E N S L K F K M H V K C P H Q K S M P V Y A R D L K W I			
UniRef90_U6KRY9	M P S E C D C E S G Q H C R V S F L L K E E K C E E N D S K I V Y S K D L K S D S			
UniRef90_Q2NFZ6	Y K R P E E C E K G D P S C Y V V L R L E V E T G P R E E R I V Y S G D L E T S			
UniRef90_A2BK79	M K W S R K G V D P T V N D T L L H E V T C Q R T D P D K L Y T G H T V Y A			
UniRef90_U4L7M8	R R P C E D C O K E N C E R C F T K I Y I D V E A G D S P K M I Y T G D I K			
UniRef90_W7L8P7	P S K C D C D K S E G C S N C K V M L V L D S G D S D V T R T I L S N E L T S E			
UniRef90_F3KMA8	F C S T D L P D G F D P N S H L V F D L S V K A E R P Q S F P L Y S S S L T W V			
UniRef90_U6HYJ3	I E E C E Q E Q E L V D P S L C Q V R F E L N V E A K E P M I V Y S R D L K S			
UniRef90_E1QSA7	Y H E D G D K I H E R N T V V F K L D V T A P A T Y P G S V Y S R D I I H W V			
UniRef90_C6LSX9	F K S T H D S S N S L Y F S L K I V E N K T K D V I D V T S N D I L K W L			
UniRef90_R0KMW6	W P S A E K A G D E T T N L D K L E K V S A D K E P N G K V F S S Q L E W I			
UniRef90_L1IH90	Y S R D C P C M G G C N E C A I H L N I D K K C F T H N G D F A T S A D L K S Q			
UniRef90_E5SQN3	Y I T D S H S D N L D P A H V L V F E L D V E G Q H G Q A T S V Y S G D L K W R			
UniRef90_G0UYR5	V D E C T C G G A E C P A C K V S L T L S A E G P R M V Y S G D L I S S			
UniRef90_W9DQA6	K 8 F 3 D 5 F D K T D H D L N E K N T I V F K L H V K C Q K E R H E K V Y S R D L V W L			
UniRef90_H1YWA0	R D E C S C G G E G C S Q C Q A V F T L S V E G P G I V M S G D L V P Q			
UniRef90_L0KZP7	P K E E C S C G D F C P A C Q V S L T L S A E G P K I V Y S Q D L V S S			
UniRef90_R0KLT4	Y K E D C D C D E L C N R C S V E M E I D V N N T S E T P L L V T C K D I K F D			
UniRef90_S9V4X7	Y I D Q N P G S F S Q L D P H R F E L A E G A K D V P V T V Y S N K L V W K			
UniRef90_H2KQJ0	F P S R I L P E E F N P M E H V I F D F K V S C S E S S G K E V Y Y S S E L K W V			
UniRef90_UP100035E7323	L P E E C N C G N G C E R C V V R F S L R A R A V S E V I T V Y S R E M V			
UniRef90_A0ID7	Y D W E A D A D S I I D D Q K T V V F T L R Q K N L N D A P L E I T S Q H L E P E			
UniRef90_D9PV73	M P E E C D C E E Y C S E C S V S F T L L K K G P G V V Y S R D L L S E			
UniRef90_P39471	R P P E E C S C G D F C P A C Q V S L T L S A D V E A K D Q P L M I Y S R D L K S E			
UniRef90_Q46GD0	Q A E C D V C G E G C P A C E V S L T L S A E G P C T V Y S R D L I S S			
UniRef90_U6EDP0	L A S E C D C D D H C P R C S V S L T L K G K G P K T L Y Y S G D L K S E			
UniRef90_J3PTY6	L S T K C T M I G E T L P V T S K D L V I T			
UniRef90_F4B765	R P E C A N C Q E N C D G C F S K I Y L D V E A K D S E V M V Y S K D I K S D			
UniRef90_D0AO6	Y I T D S A S D N L D P E R V L L F E L D V T A K R D P T T S V Y S S G H L K W Q			
UniRef90_V6LY42	F H E Q T I T E E N T L V F R L L D I T A G D E F K T V Y S S D L E W I			
UniRef90_H2C855	R R P C E N C O T E N C E R C F T K I Y I D V S A E E T Q K M V Y S R D I K T E			
UniRef90_W6LAR9	Y I T E P Q G Q A S F D P K R V L M F E L E A E G A K N A V T S V Y S R Q L S W V			
UniRef90_V6AS69	P L K C C Q S K T G C S N C R V M L V I D S G N T D S T R I V T S A E M S S E			
UniRef90_E1ZC65	S I Y E A Q V G A W			

The figure displays a sequence logo for a protein sequence across 880 positions. The y-axis represents the probability of each amino acid (A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W, Y) at each position. The x-axis marks positions 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880. Positions 90-120 are shown in black, 130-160 in red, 170-200 in green, 210-240 in blue, 250-280 in orange, 290-320 in purple, 330-360 in brown, 370-400 in pink, 410-440 in grey, 450-480 in light blue, 490-520 in light green, 530-560 in light orange, 570-600 in light pink, 610-640 in light grey, 650-680 in light blue, 690-720 in light green, 730-760 in light orange, 770-800 in light pink, and 810-880 in light grey. The sequence logo shows highly conserved regions, particularly at positions 100-120, 200-220, 300-320, 400-420, 500-520, 600-620, and 700-720.

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 UniRef90_UPI0002658A5D
 UniRef90_Q12ZR3
 UniRef90_Q5KG24
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 UniRef90_G4MQN0
 UniRef90_N1PBK3
 UniRef90_H8I735
 UniRef90_F0Y1J0
 UniRef90_L0B0C7
 UniRef90_H9GUD4
 UniRef90_K3XJ25
 UniRef90_D7E8Q4
 UniRef90_L1JYV0
 UniRef90_Q4N473
 UniRef90_D5U3F4
 UniRef90_J8ZX59
 UniRef90_F4X4P8
 UniRef90_B5Y3D1
 UniRef90_Q7RLX3
 UniRef90_D8LXL7
 UniRef90_U6IM36
 UniRef90_W6KEL3
 UniRef90_F2HIB5
 UniRef90_J0RYG1
 UniRef90_I3E110
 UniRef90_D0NVB1
 UniRef90_E4XCX5
 UniRef90_D5EC45
 UniRef90_D2UXC7
 UniRef90_D3RX00
 UniRef90_A7IAH5
 UniRef90_E0S711
 UniRef90_S9WAD7
 UniRef90_G0EF28
 UniRef90_M5G5V5
 UniRef90_X1XW65
 UniRef90_L5LRT6
 UniRef90_A7AWB4
 UniRef90_D2RD94
 UniRef90_Q7RN53
 UniRef90_Q6C4T2
 UniRef90_Q8TVB8
 UniRef90_F2L3Y7
 UniRef90_R9SN57
 UniRef90_F0TBA8
 UniRef90_G0QT24
 UniRef90_R4WPS2
 UniRef90_A3DMQ6
 UniRef90_B8BWN8
 UniRef90_B8GEG5
 UniRef90_F7XMN5
 UniRef90_I3TDW7
 UniRef90_B8CCH8
 UniRef90_S5ZUX9
 UniRef90_K0SEJ9
 UniRef90_UPI000359C8E5
 UniRef90_U6KRY9
 UniRef90_Q2NFZ6
 UniRef90_A2BK79
 UniRef90_U4L7M8
 UniRef90_W7L8P7
 UniRef90_F3KMA8
 UniRef90_U6HYJ3
 UniRef90_E1QSA7
 UniRef90_C6LSX9
 UniRef90_R0KMW6
 UniRef90_L1IH90
 UniRef90_E5SQN3
 UniRef90_G0UYR5
 UniRef90_W9DQA6
 UniRef90_K8F3D5
 UniRef90_H1YWA0
 UniRef90_L0KZP7
 UniRef90_R0KLT4
 UniRef90_S9V4X7
 UniRef90_H2KQJ0
 UniRef90_UPI00035E7323
 UniRef90_A0DID7
 UniRef90_D9PV73
 UniRef90_P39471
 UniRef90_Q46GD0
 UniRef90_U6EDP0
 UniRef90_J3PTY6
 UniRef90_F4B765
 UniRef90_D0AOL6
 UniRef90_V6LY42
 UniRef90_H2C8S5
 UniRef90_W6LAR9
 UniRef90_V6AS69
 UniRef90_E1ZC65

G | A K H H A K W S P
 G | G K D H A K Y C P
 G | G K T H A K F S P
 G | G N K H A K W Q
 G | A K H H A K W S P
 G | G A D H A K F S P
 G | G WD H A K F S P
 G | G A D H A K F S P
 G | G K E H A K F Q P
 G | G K E H A K W I P
 G | G K F H A K W
 G | G K E H A K W N P
 G | G K V H A K W S P
 G | G K D N A K W Q
 G | G K M H S K W S P
 G | G K V H S K W S P
 G | G K E H I K W S P
 G | G K D H A K W S P
 G | G K E H A K W N P
 G | G K D H A K F S P
 G | G K M H A K W I P
 G | G E D H A K W S P
 G | G M D H A K F N P
 N | A K T H A K F M P
 G | G K M H A K W N P
 N | T G T E H A K W Q
 G | G K K H S K W S P
 G | G K D H A K F S P
 G Y G H D H A K W Q
 G | G R S H A K W Q P
 G | G K E H A K F Q P
 N | K G K V H A K W Q P
 G | G R T H A K W S P
 N | A K V H A K F M P
 G | G K E H A K W F P
 S | C G R D H A K Y S P
 G | G K D H A K F S P
 G | G K E H A K W N P
 G | G K F H A K W M
 G | G K E H A K Y Q P
 G | G K T H A K W S P
 G | G H D H A K F S P
 G | G L E H A K W K P
 G | G K E H A K W Q
 G | G K D H A K W M P
 G | G L E H S K W Q P
 G | G K M H S K W S
 G | G K D H A K W S P
 G | G K E H A K W S P
 N | L G K V H A K W Q P
 G | G K E H A K W Q
 G | G R E H I K W S P
 G | G K D H A K F S P
 G | G K E H A K W Q P
 G | S K E H A K W C P
 N | L G K V H A K W Q P
 G | G K E H A K W Q
 G | G R E H I K W S P
 G | G K D H A K F S P
 G | G K E H A K W Q P
 G | S K E H A K W C P
 V | E Q D H A K W N P
 G | G K T H A K W S P
 G | G S E H A K W Q
 G | G R E H A K W M P
 G | G K D H A K F S P
 G | G K E H I K Y S P
 G | G T E H A K W N
 G | G R D H A K F S P
 G | G A R N H A K W Q
 G | G H T H A K F Q P
 G | G S E H G K W S P
 G | N R G H A K W S P
 G | G K E H A K W N P
 G | G V H A K W S P
 N | Y G H K H A K W Q
 S | I G A D H A K F S P
 N | T G M E H A K W Q P
 G | G N K H S R W Q
 G | G K M H S K W S P
 G | G I V H T K W S P
 G | G R D H A K F S P
 G | G R K H A K W I P
 G | G K M H A K W T P
 G | G R D H A K W E P
 G | G K E H I K Y S P
 G | G R D S V K W Q
 G | G Q E H A K W Q P
 G | G Q E H A K W S P
 G | G I E H A K F N P
 G | G A V H A K W T P
 G | G K V H A K W S P
 G | G K E H A K F M P
 G | G A V H T K W S P
 G | G G T D H A K W N
 G | G K D H A K W M P

1 10 20 30 40

UniRef90_F8AIQ5	P T F A V D E V E F Y E N D S A L F D E I I A H R L A M I P L T T P V D R F A
UniRef90_D8M326	P S V A I R T V T I K E N T S V L A D D Y I A H R L G L I P L R H G D D S S T E
UniRef90_E3GZF2	P K L A I E Y I R I V T N T S R M Y D E M L A H R L G L I P L R S N E V G N L L
UniRef90_A0RXU9	P V F A V D T V D I V E N T S V L A D E G L A H R L G L I P L R T D S S E
UniRef90_Q2FTA0	P T F A I E D V K I Y D N T S A L F D E I I L T H R L G L I P L V T D P D S F V P
UniRef90_G0U4R6	P V L A F D R I L I E E N D S I L M P D E E L L A H R I G L I P F I T D L D N F N
UniRef90_E6N510	P T M A V E E I L V I E N N S S P M T N E V L A H R I S L I P F T S E E A D T Y R
UniRef90_C3N054	P V M S I D D V Y F I L V I E N N S P M T N E V L A H R I G L I V L K S D D I H K Y G
UniRef90_L0A8X7	P T M A V D Y V Y F Y D N D T S V Y D E I I A H R I G L I V L K S D D I H K Y G
UniRef90_C9ZKR1	P V L G V E S V T I I Q N Q N T S V L P D E M I A H R I G L I P L Y S K R A K Q M Q
UniRef90_B0EHR6	P T I A I Q L V R V Y A N S S Y L C D E F I A H R I G L I P P I D S T Q I H N F E
UniRef90_G4VD46	P S L A I E R V Y V V S Q N T S I M P D E V M C H R I G L I P P I A V D P K Y F L
UniRef90_A0B9L4	P K L A I D E I S I Y E N T S V L F D E Q I A L R I G L I P P I R A D D L S V Y S
UniRef90_G3UXX5	P T M A V E K V L V Y N N T S I V Q D E I I L A H R I G L I P P I L A D P R L F E E
UniRef90_G4RL48	P V F A V D Q V I I I N N T S S M Y D E M L A H R I G L I P P I T T P Q L G E
UniRef90_U6KV52	P T L A I D L V T V F E N T S V L H D E Y I V H R I G L I P P I D S S N V G N F V
UniRef90_B1L798	P T F A I D E V I F F E N T T P F F D E Y I A H R I G L I P P I R T S L D V L R V
UniRef90_C3Z3J6	P T M A L E K V F V H N N T S I I Q D E E V L A H R I G L I P P I H A D P R L F E
UniRef90_W6KIA5	P T L A F D R V L L Y E N D G V V L D E L L S H R I G L I P P I A G P V S L M E
UniRef90_G0TTN9	P V L G A E S V T I I K N T S V L P D E M L A H R I G L I P P I Y S M K A R K M P
UniRef90_A4HA24	P T L A F D R V L I E E N D S P V L D E L L S H R I G L I P P I V S D D C N H D E
UniRef90_D3E2J8	P K L A I D E D V F I V K N D S A M F D E V L A H R I G L I P P I A G P V L K M Q
UniRef90_K4DX57	P V L A F D R M L I E E N D S V V P D E E L L A H R I G L I P P I K T N L E K L P K
UniRef90_A8MDY7	P V L A I D R V I V L D N T T V M Y D E V L A H R I S M I P P I K T N L E K L P K
UniRef90_UP100035C3F6C	P V M A V D E V Y I I S N S P L Y D E M L A H R I G M V P F D S E E A L T K
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UniRef90_A2ER03	P S I A I E L V G M L D N T G V M P D E V L C H R L G L I P I N A D P S L L D
UniRef90_A0A031LK31	P V M A V D E V Y I V E N N S L Y D E V L A H R I A M I P F S S E E A I S H Y
UniRef90_F4BXF3	P I L A I D E I N L Y D N T S V L F D E Q I G L R I G E V P L V A D E L D L F S K
UniRef90_X1AZ03	P V M A V D E V I V L K N D S P L Y D E I I A H R I G M I P L T T D L D T Y K
UniRef90_M0SE79	P V E I E V N S S V L D D E F I A H R I G L I P P L T S D D A M P V R
UniRef90_X0ULI1	P T L A I D E V S I T D N S S V L F D E V I A H R I G L I P P L T F P V G R M N E
UniRef90_UP10003621DCB	P V M A I D E V T F H K N S S A L Y D E I I A H R I G M I P L S T X L K S Y E
UniRef90_A9BKT2	P F G I E K V F F Y D N S S I I L N D E I I A H R I G M I P L F V S P H F I D
UniRef90_G7WKZ9	P S L A I D E I S I Y D N T S V L F D E Q I S L R L G L I V P P I K A D D L S L F R
UniRef90_Q0W1V3	P K M A I D Y V D I Y D N T S V L F D E M I A L R L G L I P P I K T N L D M Y Q
UniRef90_A0A059YED9	P T L S I D L V E I K T V L P D E M I A H R I G L I P P F N S N T N L L
UniRef90_E4XNL9	P Q M A F D R V L I F N N T T L I Q D E V L A H R I G L I P P I K A D F R Q F K S
UniRef90_C4V751	P T F A I E N V F I F D N T S V L P D E F I A H R I G L I P P I K T Y L D R F N M
UniRef90_O28002	P A M A V D Y V D I Y L N S S Y F Y D E V I A H R I A M I P L K T Y L D R F N M
UniRef90_V4JHY3	P S M A I D F A Y F Y D N D T S V F D E V I I A H R I G L I P P I K T Y L D R F N M
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UniRef90_H8ZEB8	P S I A V H W V Y I R E N E T V M A D E I L S H R L G L I P P I L A D S S T L K N R F S R
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90 100 110 120

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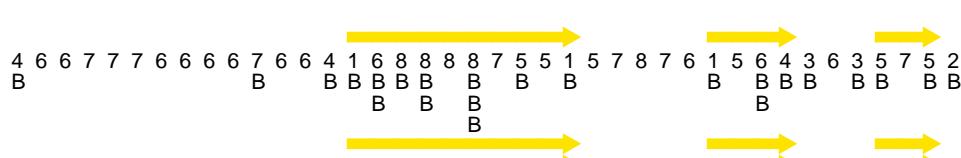
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Sequence logo showing the conservation of amino acids at each position of the protein sequence. The x-axis represents positions 1 to 40. The y-axis lists UniProt IDs. Colored bars indicate the frequency of each amino acid at each position: blue for A, red for C, green for D, yellow for E, purple for F, brown for G, grey for H, pink for I, light blue for K, dark blue for M, orange for N, light green for P, black for Q, white for R, and light blue for S. Positions 1, 10, 20, 30, and 40 are labeled at the top.

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lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
incom

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 P V G E F E I G D E V T L A L D V Q G P D T A Y S G D L V
 Y S G D C M C E E F C P E C S V E F T P D V R C N K D S S R H V S R P H L Q Q
 P D D F E I G D T V T L A L D V E G P A T A Y S G D I E S S
 Y E N R A K N D P N I I I N L D I N N I Y N K T K I S I F S E M L N L M
 D E K F T D E N T I V L S L N V K C T R N P N A H V Y A R D L K F E
 Y S A E C Q C D N Y C N E C S I I F Y L D V N N N T N K T K L I T A R N I E T D
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 Y M S E N D V P N E R N T I V Y K L H V S C K K G S P R T V K S G D L E W L
 L P H E C D O L G Y C P L C Q V S L T C E I T N T T N A A L E I Y S G D L I S N
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 F Q D K C E C G E G C P H C T I M Y S I N K V G P G T V Y S G D L V
 F R D E C S C G G G C D L C T V T Y S I N K L G E S P D V Y S S D I M P V
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 S C L Y I E I K N L N D A H L E I K S Q H L E P E
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