

QUERY	1	10	20	30	40																																							
UniRef90_V9LKA7	M	S	T	S	Q	K	H	R	D	F	V	A	E	P	M	G	E	K	P	V	S	L	A	G	G	I	G	E	V	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_C1BQK5	T	T	T	Q	K	H	R	N	F	F	V	A	E	P	M	G	N	E	K	P	V	S	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D
UniRef90_Q1HRI3	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	V	S	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_K1PG58	S	T	S	Q	K	H	R	N	F	V	Q	E	P	M	G	E	K	S	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_UPI00026584E6	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	P	V	I	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_E0W3Y0	T	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_I1G3X5	S	T	S	Q	K	H	R	N	F	V	G	E	P	M	G	Q	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_R7UIR3	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_A7S7R7	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	L	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_W5NJD5	S	T	S	Q	K	H	R	S	F	I	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_F6QR23	M	A	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	G	C	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_G3MH77	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	D	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_T2MIL1	S	T	S	Q	K	H	R	D	F	I	S	E	P	M	G	T	K	E	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_K4FUG0	S	T	S	Y	K	H	R	N	F	V	A	E	P	M	G	N	K	V	S	M	A	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_H3C7U4	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	P	V	V	S	M	A	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_K1QRB2	S	T	S	Q	K	H	R	N	F	V	Q	E	P	M	G	E	K	T	V	T	S	A	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_UPI000329C682	T	S	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_G1K0C4	S	S	S	Q	K	H	R	N	F	I	A	E	P	M	G	E	K	P	V	G	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_H3AVZ9	M	S	T	S	Q	K	H	R	D	F	V	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_T1ELV0	M	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_UPI000359416C	M	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	M	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_H2KU84	M	T	T	S	Q	K	H	R	N	F	V	T	E	P	I	G	D	K	L	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_M4ANS5	T	T	T	S	Q	K	H	R	N	F	V	S	E	P	M	A	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_U6I9M3	M	S	T	S	Q	K	H	R	N	F	V	S	E	P	I	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_B3S6G9	S	T	S	V	K	H	R	N	F	I	S	E	P	M	G	D	K	P	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_Q1L957	M	T	T	S	Q	K	H	R	N	F	C	C	E	P	M	G	D	K	L	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_UPI0001CBA45B	S	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	D	K	L	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_H2XUT9	S	T	S	Q	K	H	R	N	F	V	G	E	P	M	G	E	K	G	I	E	T	V	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_Q5BS55	M	T	T	S	Q	K	H	R	S	F	V	S	E	P	I	S	E	K	V	E	L	P	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D					
UniRef90_Q03565	M	S	T	S	V	K	H	R	E	F	V	G	E	P	M	G	D	K	V	T	T	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_J9JKR2	T	T	S	Q	K	H	K	A	F	S	G	E	P	M	R	D	K	P	V	E	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_B5DJC8	S	S	K	K	C	S	I	F	V	A	E	P	M	G	E	K	S	V	T	A	L	S	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D					
UniRef90_E5SGJ6	S	T	S	V	K	H	R	E	F	V	S	E	P	I	G	E	K	S	V	T	A	L	S	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D				
UniRef90_B7P1Z2	T	T	S	Q	K	R	R	N	F	V	S	E	P	M	G	N	K	H	V	S	T	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_A8P020	S	T	S	V	K	H	R	E	F	V	S	E	P	M	G	E	K	S	V	T	A	V	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_G3MN82	S	T	S	K	K	H	R	Y	F	T	A	E	P	M	G	N	K	S	V	T	E	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_M3Z754									D	F	M	A	E	P	M	G	G	K	P	V	G	N	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_UPI0004574DE2	N	T	S	Q	K	H	K	N	F	V	G	E	P	M	K	E	K	S	V	K	E	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_G3MQQ4	T	A	S	E	K	H	R	N	F	V	S	E	P	M	G	D	K	G	V	A	D	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D			
UniRef90_E4XB84	T	T	S	Q	K	H	R	N	F	V	A	E	P	M	G	E	K	S	V	T	E	C	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D		
UniRef90_C1BZ92	S	T	S	Q	K	H	R	N	F	V	S	E	P	M	G	N	R	S	V	R	D	V	P	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D				
UniRef90_I3JIL4	S	S	T	Q	K	H	R	T	F	V	S	E	P	M	A	G	K	P	V	T	A	V	P	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D				
UniRef90_B5DJD3	M	S	E	K	F	K	N	F	V	A	E	S	M	G	E	K	D	A	T	E	L	P	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D					
UniRef90_UPI0003C1AA1C	M	T	T	S	Q	K	H	K	D	F	L	C	K	E	P	M	V	D	K	A	V	E	T	L	A	A	G	G	I	V	L	L	G	K	R	L	L	E	M	Q	G	F	D	
UniRef90_L9L824												K	E	P	L	G	E	K	P	V	R	S	L	A	A	G	G																	

QUERY UniRef90_V9LKA7 UniRef90_C1BQK5 UniRef90_Q1HRI3 UniRef90_K1PG58 UniRef90_UPI00026584E6 UniRef90_E0W3Y0 UniRef90_I1G3X5 UniRef90_R7UIR3 UniRef90_A7S7R7 UniRef90_W5NJD5 UniRef90_F6QR23 UniRef90_G3MH77 UniRef90_T2MIL1 UniRef90_K4FUG0 UniRef90_H3C7U4 UniRef90_K1QRB2 UniRef90_UPI000329C682 UniRef90_G1K0C4 UniRef90_H3AVZ9 UniRef90_T1ELV0 UniRef90_UPI000359416C UniRef90_H2KU84 UniRef90_M4ANS5 UniRef90_U6I9M3 UniRef90_B3S6G9 UniRef90_Q1L957 UniRef90_UPI0001CBA45B UniRef90_H2XUT9 UniRef90_Q5BS55 UniRef90_Q03565 UniRef90_J9JKR2 UniRef90_B5DJC8 UniRef90_E5SGJ6 UniRef90_B7P1Z2 UniRef90_A8P020 UniRef90_G3MN82 UniRef90_M3Z754 UniRef90_UPI0004574DE2 UniRef90_G3MQQ4 UniRef90_E4XB84 UniRef90_C1BZ92 UniRef90_I3JIL4 UniRef90_B5DJD3 UniRef90_UPI0003C1AA1C UniRef90_L9L824 UniRef90_M7BWX7 UniRef90_H2ZTG5 UniRef90_S4RVU7 UniRef90_G5CBA2 UniRef90_UPI0003EBBF21 UniRef90_R7U0S8 UniRef90_K7ITJ2 UniRef90_V5HV01 UniRef90_W4XVJ6 UniRef90_UPI00038BD91C UniRef90_R4G921 UniRef90_W4ZFT8 UniRef90_UPI0002240A24 UniRef90_F7FMT7 UniRef90_UPI00046BB315 UniRef90_E9CHA0 UniRef90_F7GFY0 UniRef90_E5RZ20 UniRef90_K1QIT9 UniRef90_F7D0F7 UniRef90_B3M9E7 UniRef90_UPI0002C2E252 UniRef90_V5IOX1 UniRef90_A7SE29 UniRef90_G3VZZ5 UniRef90_F6WCJ5 UniRef90_UPI0002BD152C UniRef90_F2U507 UniRef90_UPI0003959B23 UniRef90_G0ZJ09 UniRef90_A0A016UQD5 UniRef90_UPI0003C1658B UniRef90_B4HB23 UniRef90_E4X5I5 UniRef90_B5XCN5 UniRef90_W5NM53 UniRef90_UPI000393C7AD UniRef90_E4YJC4 UniRef90_J9DRC9 UniRef90_W4ZFT9 UniRef90_V3ZPZ2 UniRef90_UPI0003C13E63 UniRef90_B7P9A1 UniRef90_A7SZL8 UniRef90_UPI0003C85DEB UniRef90_S7PV97

50 60 70 80

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