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L P P I R G I E H Q I D L I P G A S L P N R A P Y R T N P E E T K E I Q R Q V  
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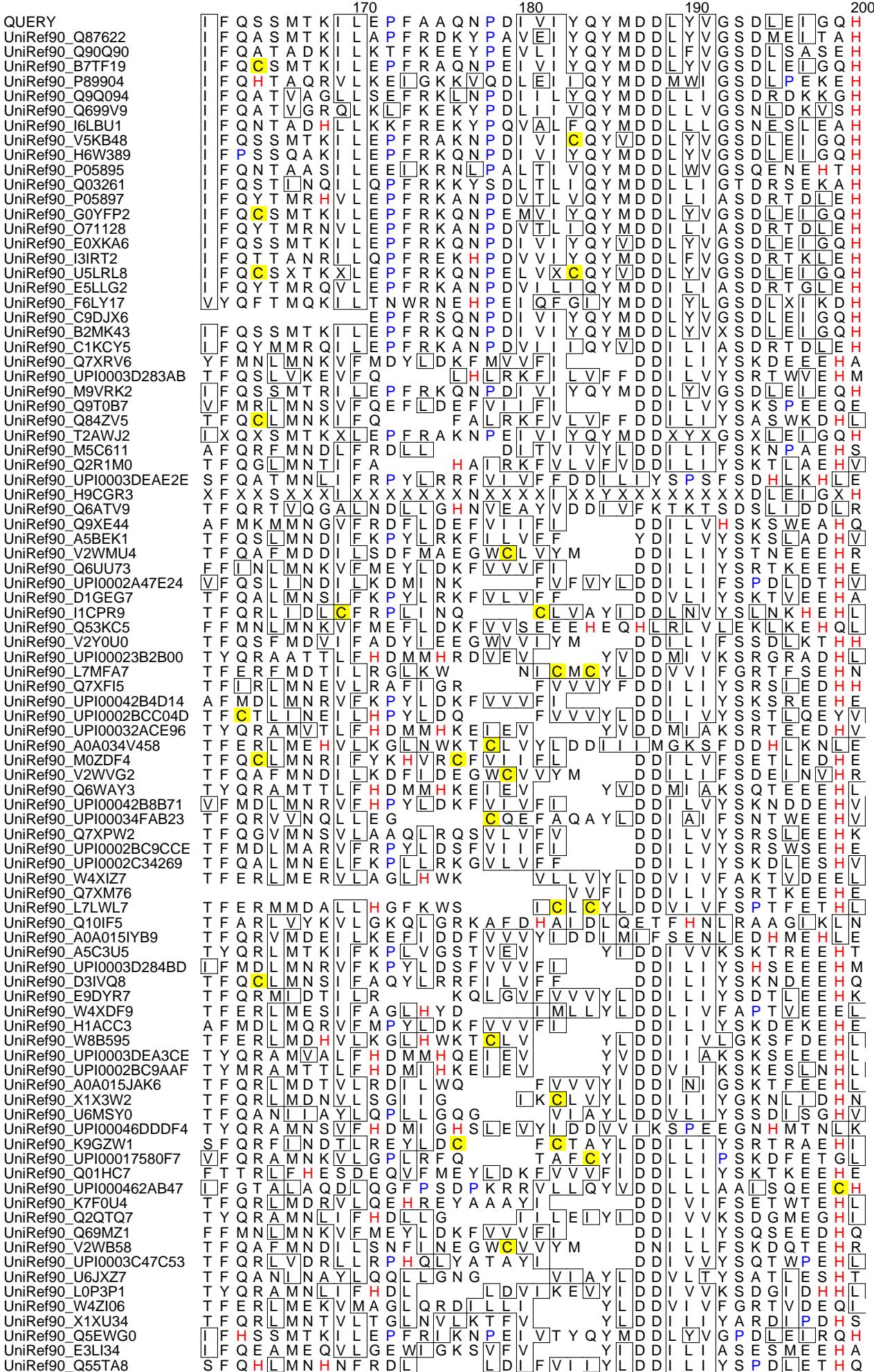
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90                    100                    110                    120

QUERY				
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UniRef90_UPI0002BC9AAF	D L N K S P K D N F P P P H I D P N I H I L I D C A K H E T Q S F F V D C F A G Y H Q I			
UniRef90_A0A015JAK6	K L N N V T K D S Y P P P R I D D M L E T L S G T Q W F S S I D L A S G F W Q V			
UniRef90_X1X3W2	A L N Q V T L N F H P P L P N I T E I L D H L G Q C L F S V I D L A S G F Y W Q I			
UniRef90_U6MSY0	A L N P T I A P D F F P P P T V L E L L G G A K Y F S T L D L E T G F H Q I			
UniRef90_UP100046DDDF4	L N E A S P K D E Y P M P M A D M L V D G A A H N Q M L S F M D G N A G Y N Q I			
UniRef90_K9GZW1	A L N A I T K D R Y P P L P T K E T L N L K G M K F F T K I D I I S A F N N L			
UniRef90_UP100017580F7	Q L N K T I K D R F P P R V D E H L D K L N G A K Y F S T T L D L A S G Y Y Q I			
UniRef90_Q01HC7	A L N E V T I K N Y P P L P R I D D L F D Q L E G A T V F S K I D L R S G Y H Q I			
UniRef90_UP1000462AB47	A V N Q A T V T I H P V V P N P Y V L L S L A A A T H F T V L D L K D A F F C I			
UniRef90_K7F0U4	K I N A I R F D A Y P M P R V N E L L E R L G K A H Y I S T L D L T K G Y W Q I			
UniRef90_Q2QTQ7	D L N K A T P D E Y P M P I A D M M I N D A S G H K V I S F L D G N A G Y N Q I			
UniRef90_Q69MZ1	A L N E V T I K N Y P P L P R I D D L F D Q L K G A T V F S K I D L R S G Y H Q I			
UniRef90_V2WB58	E L N K T V K N A Y P P L I S E D L L N K L K G A			
UniRef90_UP10003C47C53	K V N A I R F D A Y P M P R V D E L L E R L G K A R Y L S T L D L T K G Y W Q I			
UniRef90_U6JXZ7	A L N A T I A P E F P M P S V Q S V L E M L G G A T V F S T M D L E A G F H Q I			
UniRef90_L0P3P1	D L N R A T P D E Y P M P I A D M L I N D A S G H R V I S F L D G N A G Y N Q I			
UniRef90_W4ZI06	L N V A T V K D A Y P P V R I D E T L D A L G G A K W F S T L D L A A G Y W Q V			
UniRef90_X1XU34	K L N H I S S D A Y P P L P N I T D L L D Q L G K S R Y Y T T L D L A Q G Y H Q V			
UniRef90_Q5EWG0	E L N K R T Q D F W E V Q L G I P H P P G L K K K K S V T V L D V G D A Y F S V			
UniRef90_E3LI34	K L N A V I K N A H P L I E S T L Q A L G R K K W F T T L D L M A G Y W Q I			
UniRef90_Q55TA8	G I N K L T I K N Y P P L I A E L L D R L K S A K			





210      220      230      240

QUERY	UniRef90_Q87622	UniRef90_Q90Q90	UniRef90_B7TF19	UniRef90_P89904	UniRef90_Q9Q094	UniRef90_Q699V9	UniRef90_J6LBU1	UniRef90_V5KB48	UniRef90_H6W389	UniRef90_P05895	UniRef90_Q03261	UniRef90_P05897	UniRef90_G0YFP2	UniRef90_O71128	UniRef90_E0XKA6	UniRef90_I3IRT2	UniRef90_U5LRL8	UniRef90_E5LLG2	UniRef90_F6LY17	UniRef90_C9DJX6	UniRef90_B2MK43	UniRef90_C1KCY5	UniRef90_Q7XRV6	UniRef90_UPI0003D283AB	UniRef90_M9VRK2	UniRef90_Q9T0B7	UniRef90_Q84ZV5	UniRef90_T2AWJ2	UniRef90_M5C611	UniRef90_Q2R1M0	UniRef90_UPI0003DEAE2E	UniRef90_H9CGR3	UniRef90_Q6ATV9	UniRef90_Q9XE44	UniRef90_A5BEK1	UniRef90_V2WMU4	UniRef90_Q6UU73	UniRef90_UPI0002A47E24	UniRef90_D1GE7	UniRef90_I1CPR9	UniRef90_Q53KC5	UniRef90_V2Y0U0	UniRef90_UPI00023B2B00	UniRef90_L7MFA7	UniRef90_Q7XF15	UniRef90_UPI00042B4D14	UniRef90_UPI0002BC04D	UniRef90_UPI0003ACE96	UniRef90_A0A034V458	UniRef90_M0ZDF4	UniRef90_V2WVG2	UniRef90_Q6WAY3	UniRef90_UPI00042B8B71	UniRef90_UPI00034FAB23	UniRef90_Q7XPW2	UniRef90_UPI0002BC9CCE	UniRef90_UPI0002C34269	UniRef90_W4XIZ7	UniRef90_Q7XJM6	UniRef90_L7LWL7	UniRef90_Q10IF5	UniRef90_A0A015YB9	UniRef90_A5C3U5	UniRef90_UPI0003D284BD	UniRef90_D3IVQ8	UniRef90_E9DYR7	UniRef90_W4XDF9	UniRef90_H1ACC3	UniRef90_W8B595	UniRef90_UPI0003DEA3CE	UniRef90_UPI0002BC9AAF	UniRef90_A0A015JAK6	UniRef90_X1X3W2	UniRef90_U6MSY0	UniRef90_UPI00046DDDF4	UniRef90_K9GZW1	UniRef90_UPI00017580F7	UniRef90_Q01HC7	UniRef90_UPI000462AB47	UniRef90_K7F0U4	UniRef90_Q2QTQ7	UniRef90_Q69MZ1	UniRef90_V2WB58	UniRef90_UPI0003C47C53	UniRef90_U6JXZ7	UniRef90_L0P3P1	UniRef90_W4ZI06	UniRef90_X1XU34	UniRef90_Q5EWG0	UniRef90_E3LI34	UniRef90_Q55TA8																																										
R T K   I E E L   R Q H   L L R W G   L T T   P D K   K H Q K E   P P F   L W M G Y E   L H P D K	R E M I E E K L   R Q H L   Q V W G L   E T P D K   K H Q K E   P P F   Q W M G Y E   L H P D K	N K M V N R L   R E H L   R F W G L   E T P D K   K H Q K E   P P F   E W M G Y V   L H P Q K	R A K I E E E L   R D H L   L K W G F   E T P D K   K H Q K E   P V Q K R P P Y D W M G Y K   Y P S H	D E K V E E V R K I   L L R G F   E T P D K   K H Q K E   P P F   Y H W M G Y V   L H P D R	D Q A V K K E L   R E E L   M T W N   E T P D K   K H Q K E   P P F   Y H W M G Y V   L H P K K	L E Q V K Q K L   R K F L   L E K G L   R T P P E K K F   Q A E P P Y H W M G Y E   L H P D K	R R I V G E E L   R G L L   N K V G I   Q T P D K   K H Q K E   P P F   R W M G Y E   L Y P D K	R A K I E E E L   R E H L   L K W G F   T T P D K   K H Q K E   P P F   R W M G Y E   L H P D K	R T K I E E E L   R E H L   L K W G F   T T P D K   K H Q K E   P P F   R W M G Y E   L W P H K	D K L V E E Q L   R T K L   Q A W G L   E T P D K   K H Q K E   P P F   Y E W M G Y K   L W P H K	Q E I V Q Q I   V T A L   L K V G F K   V P K E K W Q D Q Y P M Q W   G Y T   W P T K	D R V V L L Q L   K E L L   N S I G F S   T P E E K F Q K D P P F   Q W M G Y E   L W P T K	R T K I K E L   R E H L   L R W G F   T T P D K   K H Q K E   P P F   L W M G Y E   L H P D K	D R V V L L Q L   K E L L   N G L G F S   T P D E K F Q K D P P F   Q W M G Y E   L W P T K	R R I V E D E L   A M Q I   A K Y G F M   L P E D K   R Q E G Y P A N W   G F E   H P N T	R E K I E E E L   R A H L   L K W G F   T T P D K   K H Q K E   P P F   L W M G Y E   L X P D K	R T K I E E E L   R E H L   L X X G X T   X P D K   K H Q K E   P P F   L W M G Y E   L W P T K	D R V V L L Q L   K E L L   N D L G F S   T P D E K F Q K D P P F   Y Q W M G Y E   L W P T K	E H L R L V L E K L   R H K L   Y A K F S K   C E F W   L K E   V A F   L G H   V I S A G G	Y H L R L V F K   L L S D H   H L   L Q S K   C S F A Q T   E I A Y   G H   L   T A D G	R T K I E E L   R Q H L   R W G L   L T P D Q K   K H Q K E   P P F   L W M G Y E   L H P D K	V H L R R V M E K L   R E Q K   L F A K   L S K   C S F   W Q R E   M G F   G H   V S A E G	K H L E S V L   Q T L   K Q H Q   F A R L   S K   C S F   G D T E   V D Y   G H   K   V S G L   G	R A K I E E L   R X H L   L K X G F   T P D K   K X Q K X   Q P P F   X W M G Y E   L H P D K	N H V R E V L   Q R L   A R N Q   L F   C K   P S K   C H F   H V   T T V E   Y L   G I R   S P L G	C H L K S V L   T V L   Q H Q   L Y I   K R S K   C S F   S Q P   S L   E Y   L   G H   I   G A I   G	L T F Q V L L   D N N   F I L K   L S K   C   S F A   Q S   Q V E   Y   L   G H   L   V S S R G   V E P V	R I X   X E L   R X X   L X X W G F   T T P   X X X X X X   X P X X   W X G X X X   H P X X	E T F D N L   R R   G I E   E N P E K	E H L R A V V L   E R L   R E H E   L F A K   L S K   F S F   W Q R   S   V G F   L   G H   V I S D Q G	H H L Q T V L   D I L   K Q H Q   L F A K   K S K   C C F   G   C S E   Y   L   G H   L   I   S K D G	E R S R R L   L Q R L   K Q E Q D   L Y L   K P   H   C   E   D   V   T   E   V   F   L   G   L   V   I   R   P   G T	E H L R L A L   E K L   R E H Q   L Y A K F   S K   C   E   F   W   L   S   E   V   K   F   L   G   H   V   I   S A G G	Q H V R A V V L   Q R L   L E N Q   L Y C   K A E   K   C   E   F   H   T   T   Q   T   R   F   L   G   H   V   V   S P   G R G	E H L R L V L   S V L   Q E H   K   L   A N   R   R   K   L   C   S   F   G   L   Q   I   E   Y   L   G   H   I   I   S K N G D	Q H L E Q V F   Q C   V   Q   I   A   N   K   L   N   P   E   K   C   F   F   K   D   H   L   K   F   L   G   Y   I   V   T   Q   T D	Y A K F S K   C   D   F   W   L   S   E   V   K   F   L   G   H   V   I   T   A   Q   G   V   A   V   D	K Q T   I   Q V L   E R L   R L   H   D   L   F   L   K   P   E   K   C   K   F   D   V   T   E   I   D   F   L   G   M   I   I   R   P   G Y	D A L   E R F F E R I   R K F   R   R   L   N   P   K   K   C   T   F   G   V   T   S   G   K   L   L   G   H   M   V   S   D   R   G   G	S R L   D T V L   N   C   I   R   N   A   G   L   V   L   N   S   S   K   K   C   H   F   G   D   R   Q   T   L   V   L   G   H   L   V   D   K   D   G	G H L R A V F   D A L   R   D   E   R   L   F   G   N   L   E   K   C   T   F   C   T   D   R   V   S   F   L   G   Y   V   V   T   P   Q   G	Q H L K   V   L   Q   I   L   R   E   H   R   L   Y   A   K   F   S   K   C   E   F   W   L   E   S   V   A   F   L   G   H   V   V   S   K   E   G	E H L K K V   F   K   V   L   R   E   N   Q   L   Y   V   K   R   E   K   C   E   F   A   Q   P   K   I   H   F   L   G   H   M   I   S   Q   G   E	V N L   Q   K   L   F   E   R   L   R   K   F   K   L   R   L   N   P   A   K   C   T   F   G   V   R   S   G   K   L   G   F   I   V   S   Q   K   E	E V F F Q R I   A   S   A   G   L   R   L   N   P   K   K   C   S   L   W   K   Q   V   T   Y   L   G   H   K   V   S   T   E   G   I   H   T   E   G	E H L R A V V F   E   L   L   R   Q   H   Q   L   Y   A   K   L   S   S   K   C   H   F   S   F   V   T   E   S   I   D   Y   L   G   H   V   I   S   S   A   G   G	L R T R   H   V   L   E   R   L   Q   E   N   D   L   Y   L   K   L   E   K   C   F   K   V   T   K   T   L   F   L   G   M   V   I   T   P   G   H	V N   L   Q   K   L   F   D   R   L   R   K   F   K   L   R   L   N   P   N   K   C   T   F   G   V   R   S   G   K   L   G   F   I   V   S   E   K   G   G	A H   L   H   V   L   Q   T   L   R   E   R   Q   L   Y   A   K   F   S   K   C   E   F   W   L   K   E   V   V   F   L   G   H   V   V   V   S   G   A   G   G	Q H   L   Q   R   V   L   E   R   I   R   Q   A   G   L   T   L   K   P   G   K   C   H   F   G   M   A   E   V   V   Q   Y   L   G   H   R   V   G   S   G   R	N H   L   R   Q   V   L   S   T   L   T   H   H   Q   L   K   V   K   L   S   K   C   S   F   A   Q   Q   S   L   A   Y   L   G   H   I   I   S   A   Q   G	Q H   L   R   I   V   L   Q   T   L   R   D   Q   L   Y   A   K   F   S   K   C   E   F   W   L   A   S   V   A   F   L   G   H   V   V   V   S   K   E   G   G	E H   L   E   E   V   F   V   H   L   R   Q   N   L   L   K   L   K   E   S   K   C   V   F   A   Q   P   Q   V   Q   Y   L   G   H   V   I   S   S   G   K   G	T R   L   E   T   V   F   Q   R   L   R   D   A   G   L   K   L   K   P   R   K   C   H   L   F   K   R   S   V   L   Y   L   G   H   V   V   V   S   P   D   G   G	E H   L   R   R   L   A   L   E   K   L   R   E   H   Q   L   Y   A   K   F   S   K   C   E   F   W   L   S   E   V   K   F   L   G   H   V   I   S   A   G   G	E R   L   S   T   I   L   S   V   F   R   K   A   G   Q   L   N   S   S   K   C   H   F   G   R   R   Q   L   T   V   G   H   L   V   D   S   S   G	P E K   C   V   F   G   V   R   A   G   K   L   G   F   L   V   S   E   R   G   L   C   E   A   N   P   E   K   I   D   A   L   Q   Q   M   K   P	K V   L   K   R   L   Q   E   H   N   L   I   K   L   K   C   K   F   L   E   R   D   I   K   F   L   G   H   I   V   G   N   G   G   L   R   P   D	L   H   L   Q   E   V   F   H   L   L   R   K   Y   G   M   K   L   D   P   S   K   C   A   F   G   V   S   A   G   K   F   L   G   F   M   V   S   Q   R   G	G   H   L   R   V   V   L   Q   R   L   R   E   E   K   L   Y   A   K   Y   E   K   C   E   F   W   L   R   V   A   F   L   G   H   V   V   S   G   G   G	E   H   L   T   V   L   Q   G   L   R   Q   H   Q   L   F   A   K   L   N   K   C   V   F   A   V   S   Q   V   T   Y   L   G   H   V   I   S   S   G   D   G	R   H   V   H   E   V   L   Q   T   L   Q   D   N   K   L   L   V   E   A   S   K   C   C   Q   F   H   Q   N   T   V   H   F   L   G   Y   V   L   T   H   G   E	V   R   L   R   K   V   F   E   Q   L   K   N   A   G   L   K   L   K   P   E   K   C   H   L   F   Q   Q   S   V   A   F   L   G   H   V   V   S   P   E   G   G	E   H   R   I   V   L   Q   T   L   R   E   E   K   K   Y   A   K   F   S   K   C   E   F   W   L   K   Q   V   S   F   L   G   H   V   I   S   S   G   D   G	E   H   R   I   V   L   Q   T   L   R   E   E   K   K   Y   A   K   F   S   K   C   E   F   W   L   K   Q   V   S   F   L   G   H   V   I   S   S   G   D   G	R   N   L   E   E   V   F   Q   R   V   A   G   A   G   L   K   L   S   P   K   K   C   S   L   F   K   K   E   V   N   Y   L   G   H   Q   V   T   T   K   G	V   N   L   R   K   L   F   E   R   L   K   K   Y   Q   L   R   L   N   P   A   K   C   T   F   G   V   K   S   G   K   L   G   F   V   V   S   Q   K   G   G	E   D   L   R   K   F   F   A   R   L   R   K   Y   N   L   K   L   N   P   A   K   C   V   F   G   V   P   A   G   K   L   G   F   I   V   S   R   R   R   G	V   H   L   E   Q   V   F   S   R   L   E   E   A   G   L   K   L   S   P   E   K   C   F   F   F   K   D   H   I   P   F   L   G   H   V   V   S   R   T   G   G	N   K   L   I   D   V   F   E   R   L   R   T   H   N   L   K   I   Q   P   D   K   C   E   F   V   K   R   E   C   L   Y   L   G   H   V   I   S   E   T   G   E	S   L   L   R   Q   V   L   S   V   F   L   R   H   Q   F   Y   P   K   F   R   K   C   K   F   A   R   Q   T   I   T   Y   L   G   Y   T   I   K   P   A   E	R   A   F   L   R   M   R   Q   H   K   L   K   M   N   P   K   K   C   V   F   G   V   Q   A   G   N   F   L   G   F   L   V   H   Q   R   G   I   E   I   D	E   H   V   R   K   V   L   Q   R   L   R   E   A   G   L   F   A   K   L   S   K   C   E   F   C   V   S   E   T   K   F   L   G   I   I   I   G   E   D   G   G	E   H   R   L   R   L   A   L   E   K   L   R   E   H   Q   L   Y   A   K   F   S   K   C   E   F   W   L   S   E   V   K   F   L   G   H   V   I   S   S   G   G   G	K   A   T   K   E   L   L   N   E   R   G   Y   K   V   S   K   N   K   A   Q   L   C   K   T   S   I   K   Y   L   G   F   R   V   S   Q   G   E   R	R   H   L   K   A   V   L   G   A   L   A   T   K   L   M   A   N   P   S   K   C   H   F   G   Q   R   E   V   S   Y   L   G   Y   R   V   G   R   G   R   G	A   D   L   R   L   A   F   E   R   M   R   R   Y   G   L   K   M   N   P   L   K   C   A   F   G   V   S   V   G   K   F   L   G   F   M   V   H   K   R   G	H   H   L   C   H   L   L   F   V   S   G   H   V   S   A   K   G   V   A   V   D	E   R   M   E   Q   L   M   H   R   L   K   K   H   D   L   F   L   K   P   E   K   C   K   F   D   I   T   E   V   V   F   L   G   M   V   I   R   P   G   Y	Q   H   L   E   A   V   L   K   A   L   E   D   A   N   L   T   A   N   P   G   K   C   H   L   G   R   R   E   V   T   Y   L   G   Y   T   I   V   G   R   G   T	Q   L   K   Q   V   L   G   I   F   L   R   H   Q   F   Y   P   K   L   A   K   C   R   F   G   Q   R   E   L   T   Y   L   G   Y   R   I   K   P   T   A	A   D   L   H   L   A   F   E   R   M   R   R   Y   G   L   K   M   N   P   L   K   C   A   F   G   V   S   A   G   K   F   L   G   F   I   I   H   E   R   G   G	V   R   L   R   T   T   L   A   R   L   R   E   A   N   L   K   L   K   P   S   K   C   N   L   F   Q   Q   S   V   K   Y   L   G   H   I   V   S   S   E   G	K   K   L   Q   E   V   F   E   R   L   R   Q   F   N   R   L   Q   P   T   K   C   E   F   M   R   K   E   V   N   Y   L   G   H   V   I   T   D   Q   G   G	R   T   K   I   E   E   L   R   Q   H   L   L   R   W   G   L   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   R	R   E   M   I   E   E   K   L   R   Q   H   L   Q   V   W   G   L   E   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	N   K   M   V   N   R   L   R   E   H   L   R   F   W   G   L   E   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   V   L   H   P   Q   K	R   A   K   I   E   E   E   L   R   D   H   L   L   K   W   G   F   E   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	D   E   K   V   E   E   V   R   K   I   L   L   R   G   F   E   T   P   D   K   K   V   Q   K   R   P   P   F   Y   D   W   M   G   Y   K   Y   P   S   H	D   Q   A   V   K   K   E   L   R   E   E   L   R   L   M   T   W   N   L   E   T   P   D   K   K   H   Q   K   F   Q   A   E   P   P   F   Y   H   W   M   G   Y   V   L   H   P   D   R	L   E   Q   V   K   Q   L   R   K   F   L   L   E   K   G   L   R   T   P   P   E   K   K   F   Q   A   E   P   P   F   Y   H   W   M   G   Y   E   L   H   P   D   K	R   R   I   V   G   E   E   L   R   G   L   L   N   K   V   G   I   Q   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   Y   P   D   K	R   A   K   I   E   E   E   L   R   E   H   L   L   K   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	R   T   K   I   E   E   E   L   R   E   H   L   L   K   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	D   K   L   V   E   E   Q   L   R   T   K   L   Q   A   W   G   L   E   T   P   D   K   K   H   Q   K   M   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	X   A   K   I   D   K   L   R   E   X   X   L   L   K   W   G   F   T   P   D   K   K   H   Q   Q   E   P   P   F   F   R   W   M   G   Y   E   L   W   P   T   K	D   R   V   V   L   L   Q   L   K   E   L   L   N   S   I   G   F   S   T   P   E   E   K   K   F   Q   K   D   P   P   F   Q   W   M   G   Y   E   L   W   P   T   K	R   T   K   I   K   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	D   R   V   V   L   L   Q   L   K   E   L   L   N   S   I   G   F   S   T   P   D   K   K   H   Q   K   D   P   P   F   Q   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   L   E   K   L   R   H   K   L   Y   A   K   F   S   K   C   E   F   W   L   K   E   V   A   F   L   G   H   V   I   S   S   A   G   G	Y   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	V   H   L   R   R   V   M   E   K   L   R   E   Q   K   L   F   A   K   L   S   K   C   S   F   W   Q   R   E   M   G   F   L   G   H   V   I   S   A   E   G	K   H   L   E   S   V   L   Q   T   L   K   L   Q   H   Q   L   F   A   R   L   S   K   C   S   F   G   D   T   E   V   D   Y   L   G   H   K   V   S   G   L   G	R   A   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   H   P   D   K	N   H   V   R   E   V   L   Q   R   L   R   E   V   K   L   X   G   F   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	D   R   V   V   L   L   Q   L   K   E   L   L   N   S   I   G   F   S   T   P   D   K   K   H   Q   K   D   P   P   F   Q   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	V   H   L   R   R   V   M   E   K   L   R   E   Q   K   L   F   A   K   L   S   K   C   S   F   W   Q   R   E   M   G   F   L   G   H   V   I   S   A   E   G	K   H   L   E   S   V   L   Q   T   L   K   L   Q   H   Q   L   F   A   R   L   S   K   C   S   F   G   D   T   E   V   D   Y   L   G   H   K   V   S   G   L   G	R   A   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	N   H   V   R   E   V   L   Q   R   L   R   E   V   K   L   X   G   F   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	D   R   V   V   L   L   Q   L   K   E   L   L   N   S   I   G   F   S   T   P   D   K   K   H   Q   K   D   P   P   F   Q   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	V   H   L   R   R   V   M   E   K   L   R   E   Q   K   L   F   A   K   L   S   K   C   S   F   W   Q   R   E   M   G   F   L   G   H   V   I   S   A   E   G	K   H   L   E   S   V   L   Q   T   L   K   L   Q   H   Q   L   F   A   R   L   S   K   C   S   F   G   D   T   E   V   D   Y   L   G   H   K   V   S   G   L   G	R   A   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	N   H   V   R   E   V   L   Q   R   L   R   E   V   K   L   X   G   F   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T   T   P   D   K   K   H   Q   K   E   P   P   F   L   W   M   G   Y   E   L   W   P   T   K	D   R   V   V   L   L   Q   L   K   E   L   L   N   S   I   G   F   S   T   P   D   K   K   H   Q   K   D   P   P   F   Q   W   M   G   Y   E   L   W   P   T   K	E   H   L   R   L   V   F   K   L   L   K   L   Q   S   K   C   S   F   A   Q   S   Q   V   E   Y   L   G   H   L   T   A   D   G	R   T   K   I   E   E   E   L   R   E   H   L   L   R   W   G   F   T



290            300            310            320

QUERY	UniRef90_Q87622	UniRef90_Q90Q90	UniRef90_B7TF19	UniRef90_P89904	UniRef90_Q9Q094	UniRef90_Q699V9	UniRef90_J6LBU1	UniRef90_V5KB48	UniRef90_H6W389	UniRef90_P05895	UniRef90_Q03261	UniRef90_P05897	UniRef90_G0YFP2	UniRef90_O71128	UniRef90_E0XKA6	UniRef90_I3IRT2	UniRef90_U5LRL8	UniRef90_E5LLG2	UniRef90_F6LY17	UniRef90_C9DJX6	UniRef90_B2MK43	UniRef90_C1KCY5	UniRef90_Q7XRV6	UniRef90_UPI0003D283AB	UniRef90_M9VRK2	UniRef90_Q9T0B7	UniRef90_Q84ZV5	UniRef90_T2AWJ2	UniRef90_M5C611	UniRef90_Q2R1M0	UniRef90_UPI0003DEAE2E	UniRef90_H9CGR3	UniRef90_Q6ATV9	UniRef90_Q9XE44	UniRef90_A5BEK1	UniRef90_V2WMU4	UniRef90_Q6UU73	UniRef90_UPI0002A47E24	UniRef90_D1GEG7	UniRef90_I1CPR9	UniRef90_Q53KC5	UniRef90_V2Y0U0	UniRef90_UPI00023B2B00	UniRef90_L7MFA7	UniRef90_Q7XF15	UniRef90_UPI00042B4D14	UniRef90_UPI0002BCC04D	UniRef90_UPI00032ACE96	UniRef90_A0A034V458	UniRef90_M0ZDF4	UniRef90_V2WVG2	UniRef90_Q6WAY3	UniRef90_UPI00042B8B71	UniRef90_UPI00034FAB23	UniRef90_Q7XPW2	UniRef90_UPI0002BC9CCE	UniRef90_UPI0002C34269	UniRef90_W4XIZ7	UniRef90_Q7X7M6	UniRef90_L7LWL7	UniRef90_Q10IF5	UniRef90_A0A015YB9	UniRef90_A5C3U5	UniRef90_UPI0003D284BD	UniRef90_D3IVQ8	UniRef90_E9DYR7	UniRef90_W4XDF9	UniRef90_H1ACC3	UniRef90_W8B595	UniRef90_UPI0003DEA3CE	UniRef90_UPI0002BC9AAF	UniRef90_A0A015JAK6	UniRef90_X1X3W2	UniRef90_U6MSY0	UniRef90_UPI00046DDDF4	UniRef90_K9GZW1	UniRef90_UPI00017580F7	UniRef90_Q01HC7	UniRef90_UPI000462AB47	UniRef90_K7F0U4	UniRef90_Q2QTQ7	UniRef90_Q69MZ1	UniRef90_V2WB58	UniRef90_UPI0003C47C53	UniRef90_U6JXZ7	UniRef90_L0P3P1	UniRef90_W4ZI06	UniRef90_X1XU34	UniRef90_Q5EWG0	UniRef90_E3LI34	UniRef90_Q55TA8
L S K [L L R G T K A [L T E V I P L T E E A E [L E L A E N R E I L K E P V H G V Y	L C R L I R G V K S L T D R V Q M T R E A E E L E E N K Q I L Q Q K I E G Y Y	L C K L I R G A K P L D E V E W T R E A E E L E Y E E N K L I V Q E E V H G V Y	L C K L L R G A Q D L T A V V Q W T E Q A E V E F R Q N Q E I L L K E E E Q Q G A Y	L C K L I R G V K A L E E V V T W T D A A L E E Y E Q N Q Q I L K E K P Q G V Y	L C K L I R G V P G L T D K V S L S E E A Q A E L R E N K E T P K Q E V S G V Y	L C K L L R G A K A L T D I V P L T E E A E M E L E E N R E I L K E P V H G V Y	L C K L L R G T K A L T D I V P L T E E A E E L A E N R E I L N E P V H G A Y	C K L I T G G K K N N L L E L V A W T P E A E E Y A E N A E I L K T E Q E G T Y	L C K C L R G T K Q L T E V L T L T E A A E E L E E N R Q I L K E E Q A G S Y	L C R L I R G K M T L T E A V Q W T E M A E A E Y E E N N I I L S Q E Q E G C Y	X X X X X X X X X X X L T E V V P L T E E A E L E L A E N R E I L K E P V H G V Y	L C R L I R G K M T L T E E V Q W T E M A E A E Y E E N K I I L S Q E Q E G C Y	L C K L L R G T K A L T E V V P L T E X A E L E L X X X X X X X X X X X X X X X	L C K L I R G A K A L D E I V T M T R E A E E L E F E E N K Q I L K E K L H G V Y	L C K L L R X X K A L T E E V I P L T X E A E L E L A E N X E I I L R E X V H G V Y	L C R L I R G K M T L T E E V Q W T E l A A E L E E N R I I l S Q E Q E G Y Y	I L K L M E G D R D L L Q S H R E I T E V H Q E W E E C R K K L Q Q M E G S Y	L C K L L R G A K A L T D I V P L T E E A E L E L A E N R E I L K D P V H G V Y	I A R P M T Q L L K K E K K F V W S E Q C Q E S F E Q L K E K L T S A P I L V L	E P L T A M L R K N S F I W T D Q S T Q A F K K L K V A M T T P V L A L	L C K L L R G T K A L T E V I S L T R E A E E L E L A E N R E I I L K E P V H G V Y	Q P M T K L T G K D V P F V W S Q E C C E E G F V S L K E M L T S T P V L A L	I A G P L T D L Q L K Q D S F L W N N E A A A F V K L K K A M T E A P V L S L	L C K L L R X T X A L T D L X P L X E E X E L E L X E N X E X X X X P V H G V Y	I A R P L H D L T Q K N R P W K W G K S E E E S F Q E L K R R V T S R P V L A H	I T K P L I E L L K K G T F F F W S T L E H T A F Q E V K Q C L Q Q A P P V L A M	D P L V K A T T M E P F Q W S S Q A Q M A F D Q L K H A L S T A P V L A L	L C K L L R G T K A X T E X V P X T A E E L E L A E N R E I I L K E P V H G V Y	R G Q P F F T L L K K Q D K F V W T Q E A E D A F I A L K R Y L S D P P V L V A	Q P L T R L T G K D T A F N W S D E C E C K S F L E L K A M L I N A P V L V L	A P L T A L L K K K N S F K W T E S A K R A F Q D D L K H D V T S P P V L A L	I A R P L Y D L T K K G V V F W S W N D A C Q D A F E T L K R K F S Q Q P L L Q I	I A K P M T R L L Q K D V K Y K W S E E C K Q S F Q E L K N R L I S A P I L I L	V A A P L H K L T S A K V H F V W N E G A D R E F T K L K S R F S T A P I L T Q	R P L T E L L K K D G F Q W S K E A E L A F D S L K K A M V E A P V L A L	I A R P L H D Q T K T T K K V P W T N E T E T E S F E L L K R A L T S T P I L S R	I A R P M T Q L L K K E E K F K W T A E C D K S F E E L L K K K L V S A P V L I L	I A R P L N E L T K K D K K F E W T T E C Q V A F D A L K E K F L S E P P V L I M	V C E P I F R L L R K N Q P T V W N D G C Q I A F E K I I N E Y F L S P P I L V P	Y P L T S L L R K D V P F E W T P E C Q A S S F R Q L K F L L T S R P V L Q H	I A A P L H E L T K R N V T F T W A A Q R N A F D T L K D K L T H A P L L Q L	I A R P L H D Q T K T T K K V P W T N E T E T E S F E L L K R A L T S T P I L S R	I A R P L T R K D T K F E W S D A C C E N S F E K K L K A C C I Q E P P V L S L	I A A P L T E L L K K N R P W L W S E E C Q G A F E G L K A A V I Q E P P V L M L	T C E P I F K L L R K D Q K V E W N E C Q K A F E K I I K Q Y L S K P P I L V P	I C E P I F K L L R K D V P F E W T P E C Q A S S F R Q L K F L L T S R P V L Q H	V A R S L H D L T K K N R P F V W Q L E Q E K Q A F E Q L L K E L L C T A P M L A Y	I A K P L R A L L T K K G F E W N D K A Q A A F E L L K R A M A S A P V L A L	L A W P L H K L T K K D M K F E W T K T R D V A F N V L K A K F L Q R L I L Q M	T C E P I F K L L R K N Q A K W N D D C Q K A F D K I K E Y L L Q K P P I L I P	I V A P L T R L T R K G V K F E W D D V C E N R F Q E L L K N W L T S A P I L T P	K P L T D L T S K R R P R V V T W T L E C Q A T A M S A L K S A L V N A P V L S A	I C K P L T N L L R K G V L F Q W T S V T Q E A F V I A L K T A L I E A P V L A L	I A A P L T Q L S R Q D L P F V W S E E C E M S F L K L G L T S A P I F T L L	K P L T D L L K R N Q F L W S P R A E E A F N Q L K S A V T T A P V L A L	I A R P L H Q L T E K G R E F I I W T N E C D C A F S E L K E H L L T A P V L A Y	I A K P M T R L L Q K D V K Y K W S E E C E Q S F Q E L L K S R L I S A P I L I L	V A R P L T E L K R D V T F V W G P D Q D R A F A E L T T R L T T P P I L G H	R G L P F F K T L R G A G K F N W T P E C Q A A F D E L L K Q Y L Q S P P A L I S	I A K P L T S L V K K E M E F I I W G K E Q Q K A F D T L K E K F L T K Y P I L Q Y	R P F F L A I R K A G A S G W T D S C Q S T F E K I I K H C L M H P P I L S S	I A S P M T K L T Q K K A K F E W T D C E R S F Q T L K D K L V S A P I L S L	R P L Y D M L R K G G F D W K D P Q D E A F V K L K L A M T T A P V L A L	I S R P L T N L T K K E V G F Q W N E P E A T A F Q K M K D L V T S E P V L K A	I A K P L H K L T E K K K R Q Y H W D E S C E S A F S M L K E K L T T S S P I L A Y	I A T P L T R L T Q K N I K F E W S K E C E E A F Q T L K D K L T V A P V L A L	V V E P L N R L L K K T P Y V W G K D Q H D A F E R L K T C L T T P P I L A Y	I A K P I T N L L K K D V K F N W S E E C D R A F G K L K H A L C T E P V L Q Y	V A Q P L V D L T R K D V S F E W T E L H T Q A V R Q L K Q R L I D V T T L Q V	Q P F S S L L R L K Q E Q T F K W E E Q H Q Q A F F E E I K H Y L S N P P V L S P	V I A P L V R L T K K D V R F E W T P V C Q L S F E A L K K A F T S A P V L K A	N S L T S L L K K G S A F V W E A Q E R E F Q T L K D I L T S R P V L A I	I A R P M T R L L Q K E V K Y K W T E D C E R S F Q E L L K K R L V T A P V L I L	R P L Y E A T K G G E K E P F K W T P D C D Q A F S Q L K Q A L V Q A P A L G L	A P L T D L T Q N T R P Q R V Q W T S Q C E N A F R A L K Y Q L T Q S P V L H Q	N A F V P I L R L K K E A D F T W G A Q K Q E A F E K L K R Y L S T P P V V R V	I A R P M T Q L L K K E E K F V W S P Q C E K A F Q T L K E K L V S S P V L I L	L T R L L M N D L L Q K N R K F K W T R E C Q I A F D L L K V K F L S E L I L V M	T P L S D L T Q K S M P T K V Q W T P E C E E A F H T L K Q R L V K E P V L F P	V A R P L V D L T R K N A T F T W T E K H T A V R R L K Q L L S E Y T T L Q I	S A F T P I L R L K K E T E F T W G A Q E Q Q Q A F E E I K R Y L S T P P V L R A	I A S P L H E L T E K A R R F E W N D E C Q R A F E E L K E C Q I A P I L V C	I A K P L T S L L K K D V E F K W S D C Q K A F E D L K N A L T N E P L L Q Y	L C K L L R G A K A L T D I V P L T E E A E L E E N R Q I L K E E Q E G C Y	I A K P L T P L T S P K V A W R W T S E Q Q A F E E L K R M R T S A P V L A Q	I A K P L I D L T K K D L P F V W E E P Q R T S F E A L K K S F T S V D L L R H					

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410                  420                  430                  440

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UniRef90_A5BJJ2	L K L L Q A Q G I I	Y P I S D P W V S P I Q V V P K K S R I T V G W R V C I D Y R		
UniRef90_UP10002C2EA60	V V R N D E N E L	V I P Q R T V T G H R V C I D Y R		
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UniRef90_A0A015IZV2	Q R L L K A G L I I	V P S N S Q W T S P V V V V E K K N G K K R L C V D Y R		
UniRef90_G0MLE3	D R L M N T G V I	T P I E H A E W A A P V V A V S K K N G T T R L C A D F S T G		
UniRef90_UP10003D275B0	T K Q I E S Q V V E	E V T Q Y P T W L A N V V P I A K K D G K I R I C V D Y R		
UniRef90_U6PVC6	K E L L L D R G I I I	E A S E S E W A S P V V L V K K K D G S L R L C I D Y R		
UniRef90_UP100046DF48E	L K L L D V G I I I	Y P I S D S K W V S A V H V V P K R R P A A S W R V C T D Y R		
UniRef90_V2X5X6				
UniRef90_A0A016W528	T Q M I E D G I I I	R E S T S P F C S P V V L V R K R E A N S W R F T I D F R		
UniRef90_Q8I7Q2	K K L I I D D G I I	I P V M K E V K S G I T V K V N E D N E L V I P Q R I Q T G W R V C I D Y R		
UniRef90_UP100046DBCEF	R R L N P V M K E V	K L Q K L G V I E P V N F S E W T A P I V V V K K T N G S I R L C A D Y S T G		
UniRef90_Q4QQF4	E R L L Q K L G V I	E P V N F S E W T A P I V V V K K T N G S I R L C A D Y S T G		
UniRef90_Q2R6U9	K R L L Y D A S F I	R P C R Y P E W V S N I V P V I K K N G K V R V C I D F R		
UniRef90_M5C4N7	D S E L L A A G K I	R P S T S P A G A P V M F V K R A D G R L C L M V D Y C C		
UniRef90_W4XSZ5	D K M L K A G V I	R P S I S E W A S P P V L I R K R D G S V R W C L D Y R		
UniRef90_A0A016STT2	D R L V S E G V L	G P V D H S N W A A P I V V V R K S N G T I R I C A D F S T G		
UniRef90_UP100034FE794	Q K M L D Q K I I I	D Q K I I Q P S L S P W S S P I W I V P K K T D G Q K K W R I V I D Y R		
UniRef90_A0A015J1N0	M L E E Q G L I I I	I P V S T S P W S F P V V V V K K K N G K L R F C V N Y P		
UniRef90_K7EW47	E R L L V K N G V L I	P I V T H S P W A T P I V P I L K K D G S I R I C G D F K V T		
UniRef90_V5GN60	H E L L L V S G I I I	I R E S T S S Y A S P I V L V R K K T G D L R M C V D Y R		
UniRef90_A7HTH9	K D L L I D K K F V	V P S K S P F S S S P I V M V K K K D G S Y R L C V D Y R		
UniRef90_A5BWK7	L K L L L Q A Q G I I I	Y P I S D P W V S P T Q V V P K K T R I T L G W R V C I D Y R		
UniRef90_UP100025F40E	D D L E K Q D I I I	T K V D R S E W A T P I V P I V K A D G S I R C G D F K I T		
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UniRef90_UP10003501CB2	E R M E H Y G I V S R	V K Y S S W A A P I V V V P K K D K T I R L C G D Y K V T		
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UniRef90_A5APP4	D K L L E A G C I I	R E V S Y P D W L A N V V V V P K K E G K W R V C V D Y T		
UniRef90_A5AIU4	D	N E Y L D W L A N V V V V P K K E G K W R V C V D Y T		
UniRef90_11GB16	D H M L E L D I I I	R P S S S N W S S A L H M V P K K S G D W R P C G D Y R		
UniRef90_E3M1T4	D H M L E L D I I I	R P S S S N W S S A L H M V P K K S G D W R P C G D Y R		
UniRef90_A5BKR4	K F M K D N G L I I I	E E S T S P Y T S P L L S I P K K G E I R I V I D Y R		
UniRef90_L7MM80	R W S L Q W S I P E	W L A N V V L V P K K D G K V R V C V D C		
UniRef90_A5C645	A D L L E H E L L I	R P S T S Q W T S A P V L V A K K S G F R L A I D Y R		
UniRef90_UP1000388C862	Q K Q L Q C W	D G K V R V C V D F R		
UniRef90_UP10002C34AF7	R V M L A L G V I	E P S Q S E W H S P V V L V S K P D G T R R F C I D F R		
UniRef90_UP10003C47A0D	M K L L D V G V I	Y P I S D S K W V S Q V H V V S K K S G M T W R V C I D Y R		
UniRef90_A5AQ82	K R L L R E A G I L I	I P C Q S A W N T P L L P V Q K P G T E D F R P V Q D L R		
UniRef90_A5BA01	L K L L L Q A Q G I I I	Y P I S D P W V S P T Q V V P K K T R I T S G W K V C I D Y K		
UniRef90_A0A016S258	D K L L E A G F I	R E V D Y P D W L A N V V V V P K K E G K W R V C V D Y T		
UniRef90_Q0ZCDO	D R L L E M N V I	A P V T H S E W A A P I V C V R K S N G K L R V C A D F S T G		
UniRef90_UP1000395DD36	T Q F L A Q G I L Q E C	E S D F N T P I F P V R K P N G K Y R L V Q D L R		

	90										100										110										120														
UniRef90_U6MEN9	E	L	N	A	T	I	A	P	D	F	P	L	P	P	I	Q	T	I	F	E	M	L	G	G	A	R	Y	F	S	T	L	D	L	E	S	G	F	H	Q	I					
UniRef90_UP1000393EF75	P	L	N	K	V	T	K	D	S	Y	P	L	P	P	R	I	D	E	S	L	D	V	A	R	S	S	W	F	S	T	L	D	L	R	S	G	Y	W	Q	V					
UniRef90_W4XVS0	Q	L	N	K	I	T	K	D	S	F	P	L	P	P	R	I	D	E	S	L	V	M	D	G	A	K	Y	F	Y	S	L	D	L	S	H	G	Y	F	Q	I					
UniRef90_M5X4A3	A	L	N	K	I	T	I	D	K	Y	S	P	L	P	P	R	I	D	D	L	D	Q	L	H	G	A	H	Y	F	T	K	L	D	L	K	S	G	Y	H	Q	V				
UniRef90_UP10002A4B27E	E	L	N	Q	I	T	I	D	K	Y	S	P	L	P	P	R	I	D	D	L	F	D	Q	L	K	G	A	K	Y	F	S	K	I	D	L	R	T	X	Y	H	Q	L			
UniRef90_A5BRB4	L	N	R	V	T	V	K	N	K	Y	P	L	P	P	R	I	D	V	I	V	D	S	T	A	G	Q	G	M	L	S	F	I	D	A	F	F	G	Y	H	Q	I				
UniRef90_UP1000350B709	N	L	N	C	P	K	D	S	F	P	P	P	P	P	R	I	D	T	V	I	Q	S	L	P	E	N	T	W	Y	S	V	L	D	L	K	D	A	F	F	T	L				
UniRef90_A0A016W340	E	V	N	R	V	L	T	I	H	P	T	V	P	N	P	Y	T	L	L	S	L	P	E	N	T	W	Y	S	V	L	D	L	K	D	A	F	F	T	L						
UniRef90_K9FA30	A	L	N	K	V	T	Q	D	S	Y	P	L	P	P	R	I	D	T	V	I	Q	S	L	G	G	K	K	I	F	S	T	L	D	M	A	S	G	Y	W	Q	I				
UniRef90_M1WIRO	U	N	K	I	T	V	I	K	N	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	K	Y	F	S	K	I	D	L	K	T	G	F	N	L	I					
UniRef90_Q7XWF5	A	L	N	E	V	T	I	K	N	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	K	Y	F	S	K	I	D	L	R	S	G	Y	H	Q	L					
UniRef90_UP10002038F03	A	L	N	N	I	T	R	N	R	Y	P	L	P	P	R	I	D	D	L	D	R	L	R	G	A	K	V	Y	T	K	L	D	L	Q	G	A	Y	N	L	V					
UniRef90_Q6UU9	A	L	N	E	V	T	I	K	N	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	K	V	F	P	K	I	D	L	R	S	G	Y	H	Q	L					
UniRef90_Q79P3	A	L	N	E	V	T	I	K	N	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	R	V	F	S	K	I	D	L	R	S	G	Y	H	Q	L					
UniRef90_Q2QP03	D	L	N	K	C	P	K	D	H	F	P	L	P	P	R	I	D	D	L	F	D	Q	L	V	D	S	T	V	G	C	E	L	L	S	F	L	D	A	Y	S	G	Y	H	Q	I
UniRef90_L0P1I7	D	L	N	K	C	P	D	D	F	P	P	P	P	P	R	I	D	D	L	V	D	S	T	S	G	C	E	L	L	S	F	L	D	A	Y	S	G	Y	H	Q	I				
UniRef90_Q7LHG5	T	L	N	K	T	I	S	D	P	F	P	L	P	P	R	I	D	D	N	L	L	S	R	I	G	N	A	Q	I	F	T	T	D	L	H	S	G	Y	H	Q	I				
UniRef90_M5C9H3	K	L	N	S	R	K	K	N	V	Y	P	L	P	P	R	I	D	D	L	M	S	K	L	R	G	A	K	I	F	T	K	L	N	L	R	W	G	Y	N	N	V				
UniRef90_UP1000329E3E1	I	N	S	V	T	V	K	D	A	Y	P	L	P	H	P	I	D	G	I	L	S	R	I	P	K	A	E	Y	I	S	S	L	D	L	R	R	A	F	W	Q	I				
UniRef90_E9ENJ3	A	L	N	A	I	T	R	D	R	Y	P	L	P	P	R	I	D	E	T	L	S	R	A	I	S	K	A	W	L	T	K	L	D	V	I	A	A	F	H	K	I				
UniRef90_UP10003503516	K	L	N	D	I	T	V	E	V	Y	P	L	P	P	R	I	D	D	F	D	Q	L	G	K	A	T	V	F	S	K	I	D	L	S	S	G	F	H	Q	L					
UniRef90_A5BBP7	U	N	R	V	T	V	K	N	K	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	K	Y	F	S	K	I	D	L	R	T	G	Y	H	Q	I					
UniRef90_Q8S718	D	L	N	K	S	C	P	K	D	F	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I	
UniRef90_W6NQJ2	E	L	N	K	T	I	S	D	P	F	P	L	P	P	R	I	D	D	N	L	L	S	R	I	G	N	A	Q	I	F	T	T	D	L	A	S	G	Y	W	Q	I				
UniRef90_W4YWK8	K	L	N	A	R	T	P	D	Q	Y	V	P	L	P	H	P	I	Q	E	A	I	D	L	S	G	N	K	W	F	S	V	L	D	L	K	S	G	Y	Y	Q	I				
UniRef90_W4XLB8	R	L	N	K	T	V	F	D	P	E	M	P	T	N	P	Q	E	M	F	A	S	L	A	K	S	K	Y	F	T	K	L	D	L	T	K	G	Y	W	Q	I					
UniRef90_M5X976	U	N	R	V	T	V	K	N	K	Y	P	L	P	P	R	I	D	D	F	D	Q	L	G	K	S	Q	Y	F	S	T	L	D	L	S	S	G	F	H	Q	L					
UniRef90_G4V615	A	I	N	K	I	T	V	K	N	Y	P	L	P	P	R	I	D	D	F	D	Q	L	K	G	A	K	Y	F	S	K	I	D	L	A	S	G	Y	W	Q	V					
UniRef90_W4XI40	L	N	Q	V	T	V	T	D	A	E	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	V	
UniRef90_K01XD4	E	V	N	K	R	V	E	D	I	H	P	P	N	P	Y	N	L	L	S	T	L	P	P	R	I	D	E	A	Y	I	S	S	L	D	L	K	D	A	F	F	C	L			
UniRef90_K714G2	K	V	K	V	V	N	H	P	L	P	H	E	A	T	L	Q	S	L	V	G	K	R	V	F	T	T	L	D	L	L	A	G	Y	W	Q	I									
UniRef90_M5C810	R	L	N	N	R	T	K	N	K	Y	P	L	P	P	R	I	D	D	F	D	Q	L	R	G	A	K	Y	F	S	K	I	D	L	R	W	G	Y	N	N	V					
UniRef90_Q2QB3	D	L	N	K	C	P	D	F	V	L	P	P	R	I	D	D	F	D	Q	L	V	V	D	S	T	A	G	Y	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I		
UniRef90_V5GGK9	K	I	N	A	T	R	K	D	E	S	P	L	P	H	P	I	D	E	T	L	Q	S	L	V	G	K	R	V	F	T	T	L	D	L	L	A	G	Y	W	Q	I				
UniRef90_I1EBF7	R	L	N	E	S	T	M	D	A	Y	P	M	P	R	I	D	D	F	D	Q	L	V	G	K	R	V	F	T	T	L	D	L	L	A	G	Y	W	Q	V						
UniRef90_W8C8Q1	L	N	Q	K	I	V	R	D	N	F	P	M	P	L	P	H	P	I	D	D	F	D	Q	L	R	Q	S	A	K	V	F	T	T	L	D	L	R	N	G	F	F	H	V		
UniRef90_Q7XS19	N	E	V	T	I	K	N	K	Y	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	L		
UniRef90_W4XWN2	L	L	N	K	T	I	K	D	A	H	P	L	P	P	R	I	D	D	F	D	Q	L	V	E	D	A	E	A	L	K	G	A	K	F	T	V	D	L	A	H	G	F	W	Q	C
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UniRef90_D7GY52	A	L	N	A	I	T	K	D	R	Y	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I	
UniRef90_Q7XVB0	D	L	N	K	A	P	D	D	F	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I		
UniRef90_A5B903	N	L	N	N	C	P	K	D	S	F	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I	
UniRef90_E3MHE6	U	N	D	S	I	E	Q	H	R	H	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I	
UniRef90_A5BZS6	K	L	N	A	T	R	K	D	H	F	P	L	P	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	H	Q	I	
UniRef90_Q2AA42	K	L	N	A	I	T	R	K	D	H	F	P	L	P	H	P	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	N	Q	I
UniRef90_K7EY7	V	N	A	I	S	R	F	D	A	Y	P	M	P	R	I	D	D	F	D	Q	L	V	D	S	T	A	G	C	E	L	L	S	F	L	D	C	Y	S	G	Y	W	Q	I		
UniRef90_W6NWU0	K	N	Q	V	T	K	I	D	S	F	P	L	P	P	R	I	D	D	F	D</td																									

130                  140                  150                  160

UniRef90_U6MEN9	R M A K E D R W K T A F R S [V] M	G L F E Y K I M P F G L	K G A P A	
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UniRef90_A0A016W340	K L S E A A K E K S A F T T S E	G L F Q F E V L P F G L	S T S P A	
UniRef90_K9FA30	R M A D D A V P K T A F N T V W	G K Y E W R A M P F G L	C N A P A	
UniRef90_M1WIRO	R M A E G H E W K T A F R C R	Y G L Y E F L V M P F G L	M N A P A	
UniRef90_Q7XWF5	R I R E E D I P K T A F T T R	Y G L Y E F T V M S F G L	T N A P A	
UniRef90_UP10002038F03	R I R E G D E W K T A F Q T K	F G L F E S L V M N Y G L	S G A P A	
UniRef90_Q6UUL9	R I R E E D I P K T A F T T R	Y G L Y E C T V M S F G F	T N A P A	
UniRef90_Q7F9P3	K I R T E D I P K T A F S T R	Y G L Y E F T V M S F G L	T N A P A	
UniRef90_Q2QP03	S M A K E D E E K T A F I T P	F G V F C F V K M P F G L	I T A G N	
UniRef90_L0P1I7	S M C K E D E E K T S F I T P	Y G T Y C Y I K M P F G L	K N A G A	
UniRef90_Q7LHG5	P M E P K D R Y K T A F V T P S	G K Y E Y T V M P F G L	V N A P S	
UniRef90_M5C9H3	R V K E G D E W K T A F R T K	Y G L F E T L V M P F G L	S G V P G	
UniRef90_UP1000329E3E1	P L A E S S R D Y T C F T V P N R P	L Y R Y R V M P F G L	C N A P Q	
UniRef90_E9ENJ3	R I Q E G E E W K T A F R T R	Y G L F E W L V T P F G M	T G A P A	
UniRef90_UP10003503516	L I K P E D A P K T A F S V P Q	G H F Q F N R M P F G L	K N A P S	
UniRef90_A5BBP7	R V R E E D V S K T A F R T R	Y G H Y E F L V M P F G L	T N A P A	
UniRef90_Q8S718	R L K E S D C L K T S F I T P	F G A Y C Y I T M P F G L	K N A G A	
UniRef90_W6NQJ2	R L S E E A K Q K S A F T T S E	G L Y Q F T V L P F G L	C T S P A	
UniRef90_W4YWK8	P M A D Q D K E K T A F I C P V	G F Y Q F E R M P Q G V	K G A P A	
UniRef90_W4XLB8	P M R N E D K A K T A F L T P	K G Q H Q F K Y M P F G L	V T A S A	
UniRef90_M5X976	R I R E G D E W K T A F K T P	D G L Y E W L V M P F G M	S N A P S	
UniRef90_G4V615	E V R P Q D R K K T A F V V P N	G L Y E F Q V M P F G L	T N A P A	
UniRef90_W4XI40	P L T E E A K E L T A F V T P	D G L Y Q F R S M P F G L	V N A P A	
UniRef90_K0IXD4	R L H P E S Q L L F A F E W R D P E V G L S	G Q L T W T R L P Q G F K N S P T		
UniRef90_K7I4G2	P L K E E S K P I T A F A I G S E	L F E W N V L P F G L	V T S P A	
UniRef90_M5C8I0	C V K E G D K W K T A F R T K	Y G L F E S L V M T F G L	T N A P A	
UniRef90_UP10003F08BDA	P L T P G S K P K T A F L T P L	G L F Q Y R V M P F G L	V N S P S	
UniRef90_Q2QUB3	R L K E Y D C L K T S F I T P	F G A Y C Y I T M P F G L	K N A G A	
UniRef90_V5GGK9	P M Q P E S K K Y T A F S T P D	G A T Y Q F N V L P F G L	K N A P S	
UniRef90_I1EBF7	P V A K E D Q P K T S F A T P	F G L Y Q F T V M P F G L	K G A P A	
UniRef90_W8C8Q1	P L A S E H R K Y T S F V T H S	G Q Y E F L F V P F G I	S N S P A	
UniRef90_Q7XS19	R I R E E D I P K T A F T T R	Y G L Y E F T V M S F G L	T N A P A	
UniRef90_W4XWN2	A I E E T D I P K T A F R A G P	W G L F E Y T R M P M G L	C N A P A	
UniRef90_Q6UUL1		T A F T T R Y M S F G L	T N A P A	
UniRef90_D7GY52	P M H S D S I H K T A F V T P	D G H Y E Y L R V P F G L	A N S P A	
UniRef90_Q7XVB0	P K	T S F I T P F G T F C H L R M P F G L	R N A G A	
UniRef90_A5B903	P M S P T D E E K T T F I T P	Y D L Y C Y K V M P F G L	K N A G A	
UniRef90_E3MHE6	E L S D D S K E L L C I N T H	K G L Y Q F N R L P F G V	K S A P G	
UniRef90_A5BZS6	P M S P A D E E K T A F I T P H	G L Y C Y K V M S F G L	K N D G A	
UniRef90_Q2AA42	P I A P E D Q E K T T F T C P	Y G T F A Y R R M P F G L	C N A P A	
UniRef90_K7EYA7	P L T P G A R E K T A F A T P	F G L Y Q F V T M P F G L	H G A A A	
UniRef90_W6NWU0	S L S E D A K E K S A F T T T E	G L Y Q F R V L P F G L	A S S P A	
UniRef90_A5B5E9	E I D L E N Q E K T T F T C P	F G T F A Y R R M P F G L	C N A P A	
UniRef90_A5BJJ2	E I D V A D X E K T T F T C P	F G T F A Y R R M P F G L	C N A P A	
UniRef90_UP10002C2EA60	R V A E E D Q E K T T F T C P	F G V C C Y V K M P F R L	I T A G N	
UniRef90_Q7LT9	S M A K E D E E K T A F I T P	F G T Y E F T V M P F G L	C N A P A	
UniRef90_A0A015IZV2	E L D P E D R E K S T F I T R	R G L F C Y N R L P F G I	K S A P G	
UniRef90_G0MLE3	E V D E Q A K Q L L V I N T H	G V Y H Y R M M S F G L	K N A G A	
UniRef90_UP10003D275B0	L M D E E N A E K I L A F I T P W	G L F Q F R V L P F G L	C T S P A	
UniRef90_U6PVC6	P M S E D A M A K S A F V T S E	F G T F A Y R R M P F G L	C N A P A	
UniRef90_UP100046DF48E	A I A P E D Q E K T T F T C P	R G L F E P T V M F F G L	S N S P A	
UniRef90_V2X5X6	R I K D G D Q W K A A F K T N	G A F E Y I R M P M G L	K G A P A	
UniRef90_A0A016W528	P L E E K T H C E R T A F A C F L	G S Y R F T R L P Y G L	K V A P N	
UniRef90_Q8I7Q2	E L E K R Y R D I T S F S T A N	F G T F A Y R R M P F G L	C N A P A	
UniRef90_UP100046DBCEF	A I A P E D Q E K T T F T C P	K G L F R Y N R L P F G V	K T A P S	
UniRef90_Q4QQF4	P V A D E C K N L L T I N T H	G L F E W V V M L P F G V	G F K S A G A	
UniRef90_Q2R6U9	F M A E E D I H K T A F R C P G A I	Y G H F E P T V M Q F G L	S N T P A	
UniRef90_M5C4N7	C I K E G N K W K A A F R T K	G L F E F V R M A F G L	C N A P A	
UniRef90_W4XSZ5	R V E E S D I E K T A F I T K Q	R G L F R Y N R L T F G V	K S A P G	
UniRef90_A0A016STT2	E V D E E S K E L L T I N T H	G H F E F T R M P F G L	K N A P S	
UniRef90_UP100034FE794	T M T Q K D A C K T A F S V P Q	F G T Y E F K V M P F G L	C N A P A	
UniRef90_A0A015J1N0	K V R A E D Q E K T A F I T K	K G L Y Q R Y C R L P F G I	T S A P A	
UniRef90_K7EW47	Q V E E E S Q E L L T I V T H	D G L F E Y N K M P F G F V	V N S P A	
UniRef90_V5GN60	E I E E N S K H F T A F I T P	G K Y E Y T V M P F G L	V N A P S	
UniRef90_A7HTH9	S M K E Q D R Y K T A F V T P N	F G T Y A Y K R M P F G L	C N A P A	
UniRef90_A5BWK7	E I D V A Q D E K T T F T C P	K G L F E P M V M F F G L	S N S P A	
UniRef90_UP100025F40E	E V H P D D R H L L T I N T H	K G L Y Q C N R L M F G V	A S A P A	
UniRef90_I1BZS5	P L D E S S K E L T A F T T K	F G T Y H Y N T L P M G L	V I N S P A	
UniRef90_UP10003501CB2	E L D P D S K P F L T I N T H	K G L F Q Y Q R L P F G V	S T A P A	
UniRef90_V2WGR3	W I K D G D Q W K A A F K T N	K G L F E P M V M F F G L	S N S P A	
UniRef90_A5APP4	P M S P D D E E K T A F I T P H D	L Y C Y K V M P F G L	K N A G A	
UniRef90_A5AIU4	P M S P A D E E K T T F I T P H	S L Y C Y K V M S F G L	K N A G A	
UniRef90_I1GB16	P V A Q Q D I H K T A I T T P	F G L F E F I R M P F G L	R N A A Q	
UniRef90_E3M1T4	P M H E A H K E R T A F C C H M	G V F Q Y R Y M P M G L	K G A P D	
UniRef90_A5BKR4	L M A L E D M E K T T F I I K W	G T Y E F T R M P F G L	K N A G A	
UniRef90_L7MM80	P V R E Q D I P K T A F I C H Q	G T Y C Y R V M P F G L	K N A G A	
UniRef90_A5C645	L M T L E D M E K T T F I I K W	G L Y Q F T R M P F G L	H G A P A	
UniRef90_UP1000388C862	P L I E E T S K E K T A F A T P T	Y G T F A Y R R M P F G L	C N A P A	
UniRef90_UP10002C34AF7	P I A P E D Q E K T T F T C P	G Q L T W T R L P Q G F K N S P T		
UniRef90_UP10003C47A0D	P L A K Q S Q P I F A F E W V D P T E G E S	F G T Y A Y R R M P F G L	C N A P A	
UniRef90_A5AQ82	E I D V E N Q E K T T F T C P	P M S P T D E E K T A F I T P H D	L Y C Y R V M P F G L	K N A G A
UniRef90_A5BA01	P M S P D D E E K T A F I T P H D	E L S D E S K K M V V I N T H R G L F Q Y N R L P F G I	K T A P G	
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UniRef90_UP1000395DD36	P L A L E S R K Y F A F E W E S P D T G R K R Q L	P L A L E S R K Y F A F E W E S P D T G R K R Q L T W S R L P Q G F K N S P T		

170 180 190 200

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UniRef90_UP1000393EF75	T F E R L M D S V L A G V P W Q R C L V Y	L D D L L G H G S S F D A A L D A L R	
UniRef90_W4XVS0	T F Q R V M E V I F S D M N F T K L I L	Y L D D V L V F S K T F E E H H L	
UniRef90_M5X4A3	T F M R L M N E V L R P F I D D	F V I V Y L D D I L I F S V T W E D H L	
UniRef90_UP10002A4B27E	V F Q R L V N D V L R D F L	N F F V F V Y L D D I L V Y S K D I S Q H E	
UniRef90_A5BRB4	A F M D L M N R V F R A Y L D Q F	V I V F V B D I L I Y S R S L E E H K	
UniRef90_A5B9Q1	T Y Q R L M T K I F K P L I G H T V E V	Y I D D I M V K S K T R D E E H V	
UniRef90_UP1000350B709	L F D E A L A R D L L G F R E E H P E I	V L L Q Y V D D I L I A S T S E T C Q	
UniRef90_A0A016W340	K F Q R L M D M V L G E L Q I K D S E V	F V F Y Y I D D I L I A T E T E E R H F	
UniRef90_K9FA30	T F Q T L M N E T L R P Y L G R S V V V	Y I D D I L I Y S S Q T D E H Y	
UniRef90_M1WIR0	T F Q A L M N Y I F R D L L D A G L L V Y	M D D L L I Y A K T V I E E H D A L V K	
UniRef90_Q7XWF5	F F M N L M N K V F M E Y L D K F V V V F	D D I L V Y S Q S D E D H Q	
UniRef90_UP10002038F03	T F Q H F V N D I F Q D Y L D R F L I I	Y I D D I L I Y S S Q S E E H E	
UniRef90_Q6UUL9	F F M N L M N K L F M E F L D K	F V L E F I D D I L I Y S K S E E E	
UniRef90_Q7F9P3	F F M N L M N K I F M E Y L D Q F V V V F	I D D I L I Y S K N E E E H V E H L R	
UniRef90_Q2QP03	T F Q R T V Q G A L S N Q L G N N	V E A Y V D D I V V K T K T G D S L I	
UniRef90_L0P1I7	T F Q R L M Q K T F S P Q I G R N L E A Y	V D D L V V K N T N A G D H I P D L Q	
UniRef90_Q7LHG5	T F A R Y M A D T F R D L R	F V N V Y L D D I L I F S E S P E E H W	
UniRef90_M5C9H3	A F Q A M M N K V F Q D L L D V T V I I Y	L D D I L I F S Q N P A E H E E H V K	
UniRef90_UP1000329E3E1	A L C G L R M D R V I P V P Q L K T Q V F V	Y I D D I L I V S A S F D D D H M	
UniRef90_E9ENJ3	T F Q R Y I N R T L Q D Y L L D E	F C S A Y I I D D I L I Y S D G S L K D H	
UniRef90_UP10003503516	T F Q R L M N T C L T G L Q G S R	C F S Y I I D D I L I Y A F D L K T A I	
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UniRef90_Q8S718	T Y Q R M I Q R C F S T Q I G R N V E A Y	V D D V V V K T K H D D L I A D L E	
UniRef90_W6NQJ2	V F Q R M M D M V L K E L R M D D E V F V Y	U D D I L I V A T E T V E R H Y	
UniRef90_W4YWK8	T F Q R L M E Q C M T G I H L K E A L V	Y M D D I I V F G K T L E E M T	
UniRef90_W4XLB8	Q F T R T M M R K V L A G M S N V V S Y I	D D I L I I H T S T W E E H V	
UniRef90_M5X976	T F M R V M T H V L R P Y I G K	F L V V Y F D D I L I I Y S H S K E D H L	
UniRef90_G4V615	T F Q R L M Q T V L Q D I V P H K C L I	Y I D D I L I V Y G S T P E Q H N	
UniRef90_W4XI40	S F S R I M R V L L R G L H G V D N F I	D D I L I I H T V S F E E H L	
UniRef90_K0IXD4	L F D E A L H S D L A D F R V R Y P A L	V L L Q Y V D D L L A A A T R T E C L	
UniRef90_K7I4G2	V F Q A M M E S V I G E L L G K S A F V	Y V D D L L I A S T T I E E H E	
UniRef90_M5C8I0	A F Q Y F M N N L F Q D L L D I Y V I I Y	L D N I L I F S K N E A K H E F H V H	
UniRef90_UP10003F08BDA	UniRef90_Q2QUB3	T F S R M M R V I L G G M H G K V V N L V D D I L I Y N K L W E D H V I C T L A	
UniRef90_V5GGK9	T Y Q R M I Q R C F S T Q I G R N V E A Y	V D D V V V K T K Q K D D L I T D L E	
UniRef90_11EBF7	C F Q N V M T R E V L A G Y L H H F	T Q V Y L D D I I V Y S K T I Q E E H K	
UniRef90_W8C8Q1	T F Q R L M D C V I R G L E S F V S A Y	I D D I I V F S E S F E E H A	
UniRef90_Q7XS19	V F T R F I T A V F R E L I N N G T V I T Y	M D D I L I I P A E D E I E G L	
UniRef90_W4XWN2	F F M N L M N K V F M E Y L D K F V V V F	I D D I L V Y S Q S E E D H Q	
UniRef90_Q6UUL1	T F S R L M Q A C L G D V N L Q S V I V	Y I D D I L V F G S T F E E T L	
UniRef90_D7GY52	F F M N L M N K V F M E F L D K F V L V F	D D I L I I Y S K S E E E H E	
UniRef90_Q7XVB0	V F Q R I I N Q M L G N M R H D Q V L A Y	M D D I L I I P S I V D V A T G L E L L R	
UniRef90_A5B903	T I A M L V Y K V L C R Q L G R N V E A Y	V D D I I V V K S R K A F D H A	
UniRef90_E3MHE6	T Y Q R L M T K I F K P L I G H T V E V	Y V D D I I V V K S K T R E E H Y	
UniRef90_A5BZS6	I F Q Q L M D Q L I N G I E G V A S Y L	D D I V I T G S T V S E H D	
UniRef90_Q2AA42	T Y X R L M T K I F K P L I G H T V E V	Y I D D I I V V K S K T R E Q H V	
UniRef90_K7EYA7	T F Q R Y M I S I F S D M V E R F L E I F M	D D F S I F G D T F S Q C L	
UniRef90_W6NNU0	T F Q R L L M D R I L R Q H Q A F A V A Y	I D D I V I F S T T W E Q H L F	
UniRef90_V5GGK9	V F Q R L M H V V L A P L L G D D	Y F C Y L D D I I M V A T K T V E Q H F	
UniRef90_A5B5E9	T F Q R C M L I I F S D M V V E R I M E V F M	D D I T V Y G G S Y K E C L	
UniRef90_A5BJJ2	T F Q R C M L S I F S D M V V E X I M E V F M	D D I T V Y G G G T F F E E C L	
UniRef90_UP10002C2EA60	T F Q R C M Y H I F S E F I G S M I E V F M	D D F S V Y G G D F D A C L	
UniRef90_Q7LT9	T F Q R T V Q G A L S N Q L G N N	V E A Y V N D I V V K T K T S N S L I	
UniRef90_A0A015IZV2	T F Q R Q L M D T V L R D I F W Q	F V I V Y L D D I I N V G S K T F E E H	
UniRef90_G0MLE3	I F Q S F M D R L I N G L D G T S A Y L	D D I I V D D L I V T G S S I I E E H N	
UniRef90_UP10003D275B0	T Y M R A I T T I F H N M I H K E I E L L Y	V N D V I I K S R K S S D H I T H L R	
UniRef90_U6PV6C	R F Q R L M D S V L G N M I G N V N F Y I	A T E T K E Q H M	
UniRef90_UP100046DF48E	T F Q R C M L A I F S D M I E R F L E V	C M D F L V C G S S S D T C L	
UniRef90_V2X5X6	T F Q R Q A F M N D V L S D F I D E G W C	V Y M D D I I T S E T P E E H L	
UniRef90_A0A016W528	T F Q R I I M D N F K K H L R A R V F I Y I	Y M D D I I L V V G C S E K H M L	
UniRef90_Q8I7Q2	S F Q R M T L A F S G L E P S Q A F L	Y M D D I I L V V G C S E K H M L	
UniRef90_UP100046DBCEF	T F Q R C C M M S I F S D M V E E I L E V F M	D D F S V F G D S F D I C L	
UniRef90_Q4QQF4	I F Q Q V V M D T M L Q D V P G A A A Y L	D D I I I M G V D K I D L E	
UniRef90_Q2R6U9	T Y Q R A M A N Y I F H D L I S W L V E V	V I D D V V I K S K E I E N H I	
UniRef90_M5C4N7	V F Q R H F M N D I F R D L L D I T V I V Y L	D D I I I F S S N S R E E H V	
UniRef90_W4XSZ5	T F T R A M N L I L H G L N N W G T A L A F L	D D I I I V L V L G N S F E D H D L	
UniRef90_A0A016STT2	I F Q Q I I D S M I A G L N G V A A Y L	D D I I I V T G R T M E E H R	
UniRef90_UP100034FE794	T F Q R L L M N N V L T T G L Q G E R C F V	Y L D D I I V S Y S H D L K T H I	
UniRef90_A0A015J1N0	T F Q R T R M D K V L H G I K E K F V L V Y	D D D I I V D D V I I Y S K T F K D H I I	
UniRef90_K7EW47	I F Q R A M D Q I L C G P V Q C Y L	D D D I I L V T G G N E E D H L	
UniRef90_V5GN60	V Y Q R A I I D K A L E G G L K G N M A F V	Y M D D I I V L V P S K T V Q E G F	
UniRef90_A7HTH9	T F S R Y R M A D L F R D L K	F V N V Y L D D I I L I F S T T L L N D H W	
UniRef90_A5BWK7	T F Q R C M L S I F S D M V E R I M E V F M	D D D I I T V Y G G K F E E E C L	
UniRef90_UP100025F40E	I W Q R E I E K I L V G I E G	V A V F Y D D I I R I T G P T D E V H L	
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UniRef90_UP10003501CB2	I F Q H A M D Q I L Q G I D H V V C F L	D D D I I L I T G S T V E K H H L	
UniRef90_V2WGR3	T F Q S F M D I F T D Y L E E G W V V I Y	M D D I I I F S L D L K T H K	
UniRef90_A5APP4	T Y Q R L M T K I F K P L I G R S V E H I L H L Q E V	Y M D D I I I F S L D L K T H K	
UniRef90_A5AIU4	T Y Q K L M T K I F K P L I V G G S M E I Y	D D D I I I D D I I M V K N K T R	
UniRef90_11GB16	T F Q R F I D E V L R G L Q F A Y A Y I	D D D I I I V L I A S S S E A E H K	
UniRef90_E3M1T4	T F Q R A M A V E K Q F T G T M I L Y V	D D D I I I V V I S R D E E E H L	
UniRef90_A5BKR4	T Y Q R V V A T T L F H D M M H R D V E V	Y V D D D M I V K S Q G R A D H L	
UniRef90_L7MM80	T F Q T L M D T V L D G V N H R	F A M A F L D D V L V Y S D T L D D H L	
UniRef90_A5C645	T Y Q R A A T T L F H D M M H R D V E V	Y V D D D M I V K S R G R A D H L	
UniRef90_UP1000388C862	T F Q R L L M D H L Q S H Q D Y	A A A Y L D D D V V I Y S S R S W E D H L	
UniRef90_UP10002C34AF7	T F Q R C M L I T I F S D M V E K F I E V F M	D D F S V F G D S F N Q C L	
UniRef90_UP10003C47A0D	I F D E A L N Q D L R E F R Q D H P R V T	L L Q Y V D D D I I M V K N K T R	
UniRef90_A5AQ82	T F Q R C M L S I F S D M V E R I M E V F M	D D D I I I T I Y G G T F E E C L	
UniRef90_A5BA01	T Y Q R L M T K I F K P L I G H T V E V Y	D D D I I I D I F L A T A E K G M C L	
UniRef90_A0A016S258	I F Q Q V V M N K M V T G L R G V A T Y L	D D D I I I C G R T E Q E H M	
UniRef90_Q0ZCDO	T F Q R C M L S I F S D M V E R F L E I F M	D D F S V F G D S F D D C L	
UniRef90_UP1000395DD36	I F G N Q L A K E L E E W K T A E V R Y V I L Q Y V	D D D I F L A T A E K G M C L	

UniRef90\_U6MEN9 210 220 230 240

UniRef90\_UP1000393EF75 A [L] Q Q V L R [I] F L D Q Q F Y P K F S K C K F A K R E L T Y L G Y T I K P A P

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UniRef90\_M1WIR0 E V L S R L S Q Y N L A V A H K C H W R V T K V E F L G Y D I S T T G I S M T

UniRef90\_Q7XWF5 Q H L R L V L G K L R E H Q L Y A K L S K C E F L L S E V K F L G H V I S A K G

UniRef90\_UP10002038F03 K H V R M V L Q R L R D H G L Y A K L E K C A F D L Q E V D F L G Y R V S P L G

UniRef90\_Q6UUL9 H E H H L R L V K F L G H V I T A Q G

UniRef90\_Q7F9P3 L I M E K L R D H Q L F A K F S K C E F W D R V A F L G L V I S F N G V E V D

UniRef90\_Q2QP03 D D L R E T F D N L R R Y R L M L N P E K C T F G V P S G K L L G F L V S G R G

UniRef90\_L0P117 E T F N N L L R R H N L K L N P E K C V F G V S A G K L L G F L V S A R G I E A N

UniRef90\_Q7LHG5 K H L D T V L L E R L K N E N L I V K K K C K F A S E E T E F L G Y S I G I Q K

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UniRef90\_G4V615 A N L K A V V L H R L Q Q H N L K V K P S K C R L L Q K E V V F L G H R I I T A D G

UniRef90\_W4XI40 D T L R E V F E R L R R A N L T A R P T K C T V G C V S I E F L G H R I I G Q G E

UniRef90\_K0IXD4 E G T K A L L K T L L G S K G Y R A S A K K A Q I C L Q K V T Y L G Y S I L E D G Q

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UniRef90\_M5C810 E V L Q R L E E A A Q L F C K G S K C E F H C T K V E Y L G I I V S D Q G F S L D

UniRef90\_UP10003F08BDA E V L Q R L Q E A G L T V K P S K C Y I G F S Q L E F V G H V V G Y G E L R T M

UniRef90\_Q2QB3 E T F A S I R A F R M K L N P E K C T F G V P S G K L L G F M V S H R G I Q A N

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UniRef90\_A5B903 D M K L N P S K C A F G V S V G K F L G F M

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UniRef90\_W6NWU0 UniRef90\_A5B5E9 Q V L E Q V F Q V L S K A R L K L N P P K K C V L L E M K V E F L G H I I D H D G

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UniRef90\_U6PV6C K V L R A V L E A M K R A N L K L P Q K C M L L G R K V A F L G H E V D I E G G

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UniRef90\_A0A016W528 A D I I D E V L T K I E Q I L G M E L K A S K C E F A R K E I I K S L G F I I I S K D G

UniRef90\_Q817Q2 K N L T N V F E L L C R H N L K L P G K C S F F M K E V T Y L G H K C T D K G

UniRef90\_UP100046DBCEF H N L S L V L L K R C Q E C N V L L N W E K C H F M V Q Q G I V L G H I I I S C R G

UniRef90\_Q4QQF4 K K L D Q V L S R I A E Y G F R L R A E K C C N F C M K K V S Y L G F I I I D Q D G G

UniRef90\_Q2R6U9 A D L R K V F E R T R K Y G L K M N P T K C A F G V S A G Q F L G F L V H E R G

UniRef90\_M5C4N7 Q H V T E V T Y I G L L V T P E G I S M E

UniRef90\_W4XSZ5 K N L Q E V L G R F Q S Y Q L K L K P K K C T L F R K E V E F L G R N V G D S S

UniRef90\_A0A016STT2 Q N L E A L F E R I H S Y G F R V R I E K C T F M M S E I R Y L G D I I I D K D G

UniRef90\_UP100034FE794 E N L G A I F D R L R K F N L K L Q P D K C E F L R K E V G Y L G H I I S E E G G

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UniRef90\_V5GN60 Q H L K V V L D A L A S A G F R L N Y A K C V F F A T E I I E Y L G V I I A N G T

UniRef90\_A7HT9 N H L D I V F N R L K N V G L I V K K K K C T F A A E E V E Y L G Y N V G V R G

UniRef90\_A5BWK7 V N L E A V L H R C I E K D L V L N W E K C H F M V Q R G I V L G H I I S K K G

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UniRef90\_I1BZS5 Q H L E L V F Q C V E T A N L K L N P E K C F F F K D H L K F L G Y I V T K D G G

UniRef90\_UP10003501CB2 A L L D K V L L S K L K A S G V R V K L S K C H F L Q E S V E Y L G Y R I D A Q G Y

UniRef90\_V2WRG3 K W T T L L I E R L Q L H N F L K P E K C R F D V K E I I D F L G M I I R P G Y

UniRef90\_A5APP4 H L R K Y G M K L N P S K C A F G V S A G K F L G F M V S Q R G I E V S P D Q

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UniRef90\_11GB16 Q H L R L V F D C F R E Y G V L L H P D K C E F G V T S L Q F L G H I I I N S Q G

UniRef90\_E3M1T4 R N L E E F F Q L M I N M G L K L K A E K S Q I G R T K I S F L G F V I I E N N T

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UniRef90\_L7MM80 E H I Q C V L E R I R K A G L T I N P A K I Q L C R N S L K F L G H V I S P G Q

UniRef90\_A5C645 D A L E R F F E R I R Q K F R L R L N P K K C T F G V T S E K L L G H M V S E R G

UniRef90\_UP1000388C862 P R V A A V L R S L R Q A G L T A N P Q K S H I A W Q E T T Y L G Y T V G G G R

UniRef90\_UP10002C34AF7 H H L E L V L Q K C E E S N V L N W E K C H F M V N E G I V L G Y V V S A R G

UniRef90\_UP10003C47A0D Q A T R E L L T A L L D C L G Y R V S A K K A Q L C T T R V T Y L G Y N I E E G R

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UniRef90\_A5BA01 H L R L V F D C F R E Y G V L L H P D K C E F G V T S L Q F L G H I I I N S Q G

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	250	260	270	280
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UniRef90_M5X4A3	V S Q W P T P R S V T E V R S F I G A C Q Y L R K F I R H F S Q			
UniRef90_UP10002A4B27E	I R P D P A K I E A V S Q W E P T N R K F I L G F A N F Y R R F I R N Y S S			
UniRef90_A5BRB4	H S K V E A V Q E X Q R P T N V F E V R S F I G L V G Y Y R R F V E D F S S R			
UniRef90_A5B9Q1	I E V S S D Q V K V V I E T P P P R N K K F I L G K L V A L G H F I A R F T D E L			
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UniRef90_M1WIRO	S D K T R C I Q N W Q A P T S L K G V Q K F I L G F S N F Y R R F I R D F S K I I A			
UniRef90_Q7XWF5	V A V D P E T V A T D W K Q P V R N R F I L G L A G Y Y R R F I E N F S K			
UniRef90_UP10002038F03	L S M D P A K V E W R A P T N K K E V Q R F I L G F A N F Y Y R R F I P D F F			
UniRef90_Q6UUL9	V A V D P S N T K W T P P K T V S Q I R S F I L G L V G Y Y R R F I E N F S I			
UniRef90_Q7F9P3	P S K V E A V L A W N P P K N V S E I R S F I L G L T G Y Y R R F I E G F S K			
UniRef90_Q2QP03	I E A D L E K I K A I E N M K S P T R Q K I L T G C M A T L S R F V A R M G K R G			
UniRef90_L0P1I7	P A K I A A I D Q M R P P P T K K E V Q K Q L T G C M A A L S R F I A R L G E K G			
UniRef90_Q7LHG5	I A P L Q H K C A A I R D F P T P Q A Q R F I L G M I N Y Y R R F I P N C S K I I A			
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UniRef90_UP1000329E3E1	L R T D P D K I S A V S N Y P V T S R R F I L G M A G W Y R R F V D N F A A			
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UniRef90_Q8S718	P E K I N A I L N M K P P S S Q K D V Q K L T G C M A A L S R F V S Q L G E			
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UniRef90_W4XI40	L R P V Q D K V D A V Q P K T K K Q L R S F I L G L V G Y Y R R F V P N F A A			
UniRef90_K0IXD4	R W L T K A R K E A P V P E N P R Q V R E F I L G T A G Y C R L W I P G F A E			
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UniRef90_Q2QUB3	P E K I N A I L N M K P P S S Q K D V Q K L T G C M A A L S R F V S R L G E R G			
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UniRef90_W8C8Q1	I I R P S E G K I S A V N N F P L P T D Q R F I L G L T S Y F R R F V E G Y A V			
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UniRef90_K7EYA7	U L K P L V D K V S A V R D W P K R Q I L R Q F I L G L A G Y Y R R F I A D F A T			
UniRef90_W6NWU0	L L H M D P A K V E A I R K Y P L Q S R T F I L G H M C S Y Y R R F V L G F S S			
UniRef90_A5B5E9	I I G V D K A N V E L L P P P T N X K G I L R Q F I L G H A G F Y R R F I K D F S S			
UniRef90_A5BJJ2	I I E V D K A K V E F I V K L P S P T T R Q F I L G H A G F Y R R F I K G F S S			
UniRef90_UP10002C2EA60	I I E V D K S K I D L V R H L P I P D V R S F I L G H A G F Y R R F I K D F S S			
UniRef90_Q7LT9	I I E A N P E K I K A I E N M K S P T R Q K I L T G C V V A L N R F V A R M G E R G			
UniRef90_A0A015IZV2	I I H T D P L I K E F P I P E N L T Q L R G F I A L A S Y Y Q K C V K N F S S			
UniRef90_G0MLE3	R R K P D P E K I Q H I K N M P P P Q N V S Q L R S F L G L V Q F Y G T F D F F H			
UniRef90_UP10003D275B0	P S K I K V I Q E L L P P P K T K K D V U M S F I G R L N Y I S R F I A Q S T V			
UniRef90_U6PVC6	V H A D P A K I E K I Q N Y P R P T C R T F I L S L C G Y Y R R F I V L G F S S			
UniRef90_UP100046DF48E	I I E V D K A K I D I S N M A A P T V R S F I L G H A G F Y R R F I K D F S K I T			
UniRef90_V2X5X6	I I A M D P I I A E W E P P Q T V K G V H A F I L G F G N F Y R R F I G K Y A H			
UniRef90_A0A016W528	I I K P N P E K T K A I D E Y P T P K N K A F I L G M C S F F R R F V H N F A S			
UniRef90_Q8I7Q2	I I L P D T K Y E V I E K Y P I T D R R F V A F C N Y Y R R F I K N F S D			
UniRef90_UP100046DBCEF	I I F V D K A K I D V Q P P T T V K E I R S F I L G H A G F Y R R F I K D F S S			
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UniRef90_Q2R6U9	I I E V T Q R S I N A I K K I Q P P K D Q E I L I G K I N F V R F I S N L S G I L			
UniRef90_M5C4N7	Q E K V K A I Q E W P E P R N V K Q V Q S F I L G F A N F Y Y R R F I V H D F S C			
UniRef90_W4XSZ5	L L H L M K E H I Q A V E N W P A P Q N T K F I L G L V N Y H R L F K N Y A E L A			
UniRef90_A0A016STT2	R R P D P E K I R A I T E M P P P K D R S F I L G M V N Y Y G V F K D M R Q			
UniRef90_UP100034FE794	L K P D P N K I I E F P I P K S P K D I K S F I L G L I S Y Y R R F I P E F S K K			
UniRef90_A0A015J1N0	V K P D P E K V N K M V N Y P E P Q N R G V L G F L F S Y Y R R F I K D F A K K			
UniRef90_K7EW47	U N I I P D K I A I T N A K R P E D R T Q L Q S F I L G L L N Y Y G R F I S Q L A T			
UniRef90_V5GN60	V R P S T R K K E A P A P K D V K G V R Q F I L G L A S Y F R R F I E R F S V			
UniRef90_A7HTH9	I I L P I Q N K C Q A V K D F P T P T T Q R F I L G L V N Y Y R R F I P H C			
UniRef90_A5BWK7	I I E V D K A K V E L I V K T T V K G V R Q F I L G H A G F Y R R F I K G F S S			
UniRef90_UP100025F40E	U N I I P D K I A I T N A K R P E D R T Q L Q S F I L G L V N Y Y G R F I P N S A I L			
UniRef90_I1BZS5	I I H T D P E K I K K I V I E Y P Q P Q V R S F I L G I A S Y Y R R F I K N F A A			
UniRef90_UP10003501CB2	I I L H P T T A I V N A P S P S N V S E L R S F I L G L L N Y Y G R F I P N L S T			
UniRef90_V2WGR3	I I R M D P I I R D W K P P T T V K G V R S F I L G F G N F Y R R F I R R F S E			
UniRef90_A5APP4	V K A V A M E T P P P R N K K E I Q R E I L G K L V A L G R F I A R F T D E L			
UniRef90_A5AIU4	I I E V S P D Q V K A V M E T P P P R S Q K E L G K L V A L G R F I A R F T D E L			
UniRef90_11GB16	V R P A E T K V S V I K D F P R P I S Q R Q L L R E F F G M I N F Y H R F I P H C			
UniRef90_E3M1T4	I I Q P S G E K T E A I R K F P T P T T K S F I L G M S G Y F R R F I I K D Y A I			
UniRef90_A5BKR4	V E V D P D K I I K V I L D M P T P K T E K F I L G R L Q Y I S R F I A R L T D			
UniRef90_L7MM80	C R P D E G K V L A V L Q Y P R P T T Q A F F I L G L A G Y Y R R F I P Q F S L T A			
UniRef90_A5C645	I I E V D P D K I K A I L D M P A P K I R S F I L G R L Q Y I N R F I A R F T D E L			
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UniRef90_UP10002C34AF7	I I E V D K A K V D V P P H N V K G I R S F I L G H A G F Y R R F I K D F S K K			
UniRef90_UP10003C47A0D	R T L S S S R I K A P R T T K R Q V R E F F I L G A V G Y C R L W I L G F F A E			
UniRef90_A5AQ82	I I E V D K E K V E L L P S P T T V K G V R Q F I L G H T G F Y R R F I Q D F S S			
UniRef90_A5BA01	Q V K A V I E T P P P L R S K K E L Q R E I L G K L V A L G R F I A R F T D E L			
UniRef90_A0A016S258	R R P N P E K I E A I K S M V E P K N R A F F I L G M I T Y Y A F M P T V K D			
UniRef90_Q0ZCDO	I I E V D K S K I E L L P T P K S V K D V R S F I L G H A G F Y R R F I K D F S V			
UniRef90_UP1000395DD36	R R L G V N R V E A I C P R N H Q E L R S F I L G M V G W C R L W I L N F G L L A			

	290	300	310	320
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UniRef90_UP1000393EF75	I A A P L F R L L Q K D R D F I W T Q D C Q Q A F N T L	R R S L T E S P V L P P		
UniRef90_W4XVS0	A P L H A L T N T V S D L T F V W T T E A E V S F Q E L	K D R R S S T P V L A Y		
UniRef90_M5X4A3	I A A P L H S L T K A N Q K F E W S R N H E E S F Q L L	K R K L T E A P V L A L		
UniRef90_UP10002A4B27E	I A A P L T Q L T S V A K P F S W N A T A Q S A F D H C	K K L F V S A P I L I Q		
UniRef90_A5BRB4	I A A P M T R L T R K G V K F D L N E E C E N A F Q E L	K R K L T T I A P V L T A		
UniRef90_A5B9Q1	R P F F L A I R K T G T N G W T D N S Q K A F E K I K	H Y L M Q P P I L S S		
UniRef90_UP1000350B709	R P L Y D S L K G E T Q K S L D W T D E C E Q A F Q Q L	K R A L T E A P A L G L		
UniRef90_A0A016W340	I A K P L Y N L T S P K T K W Q W S V V E T N A F R K L	E V M S Q A P V L A Q		
UniRef90_K9FA30	V A L H N L T K K R K F R P I T W T E Q C E V A F V R L	K E A L V L V S A P V L V Q		
UniRef90_M1WIRO	R P L T D S V K L D R K A W Q W T Q D M Q T A F Q S L L	K D C F S T A P I L I H		
UniRef90_Q7XWF5	I A R P M T Q L L K K E E K F V W S P Q C K K A F E K L	K L V S L P V L L L		
UniRef90_UP10002038F03		A S E K G F Q Q L K K L F T S Q P I L Q H		
UniRef90_Q6UUL9	I A R P M T Q L L K K D E K F K W T A K C D K S F E E L	K K K L L V S A P V L I L		
UniRef90_Q7F9P3	L A R P M T E L L L K K E K K F H W S A A C E D S F Q E M	K K K R L T T A P V L T L		
UniRef90_Q2QP03	Q P F F A L L L K K Q D K F V W T Q E A E E A F I A L	K R Y L S N P P V L V A		
UniRef90_L0P1I7	L P F F K L L R K H G S F E W T K E A N D A F E E L K K Y L T S T P V L V S			
UniRef90_Q7LHG5	Q P I Q L F I C D K S Q W T E K Q D K A I E K L K A A L	C N S P V L V P		
UniRef90_M5C9H3	C P L H N L V K K E V K W Q W T E K E E S A F R E L Q R A I I N A P V I I H			
UniRef90_UP1000329E3E1	V A T P L T N L L K K S K N F S W N D E A Q K S L D Q M L	C T A P V L L A S S		
UniRef90_E9ENJ3	M P L T A L L T K K D A P F T W T T P C Q I S F D E L K T L L I G A P P I L L A Q			
UniRef90_UP10003503516	L A K S L T S L L K K D T P F N W T N E Q Q L N F E N L K N K L L V E A P I L I Y			
UniRef90_A5BBP7	I A A P M T R L T R K G V K F D W N E E C E N A F Q E L K R K L T T A P P Q G			
UniRef90_Q8S718	R G M P F F K L L K K T D N F Q W G P E A Q K A F E D F K K L T T P P V L A S			
UniRef90_W6NQJ2	L A R S L Y A T S P K T K W K W T N E E T T S F E A L K R A M I S A P V L A Q			
UniRef90_W4YWK8	R P L H S L T A G V A K K G Q P W T T E C T S A F N Q L K D S L L S S A P V L A F			
UniRef90_W4XLB8	L P L T N L T R K G T P N K V E W G P R E E D S F A R L K E S L V N P P V L K L			
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UniRef90_G4V615	A P I T D C M K Q G E F R W T H A A T R A F E L K Q K M T E A P V L R H			
UniRef90_W4XI40	L A A P L H R L T H K G R K F L W T T E C Q Q A F D V L K T R L S S P P I L A V			
UniRef90_K0IXD4	L A A P L Y P L T R P G T L F Q W G P D Q Q L A F K K N I I K K A L L L S S P P A L G L			
UniRef90_K7I4G2	L A A P L T P L T S K K V C W K W E K E Q E E A F Q K Q L I Q S V C Q T P V L A Q			
UniRef90_M5C8I0	M A R P L H N L V K K E T P W N W M G K E Q A A F K G L K K A I T E A P V L A H			
UniRef90_UP10003F08BDA	A P L Y D L T R K G L P K K V I W E K V H Q L A F E Q L K H A L S N P P I L K L			
UniRef90_Q2QUB3	M P F F K L L K K T D N F Q W G P E A Q K A F E D F K K L L T T P P V L A S			
UniRef90_V5GGK9	L T K P L T C L L K K N Q R F N W T Q E C Q D A F E K L K S N A A Q P L Q L H R S			
UniRef90_I1EBF7	S P L S D L T K K M E P T A V K W T T S C D K A F N L K D L L C Q S P P V L H S			
UniRef90_W8C8Q1	V A K P L S D L L R K D N K F V L Q E E Q L A S F Q Q L K I A L V N A P V L N I L			
UniRef90_Q7XS19	I A R P M T Q L L K K E E K F V W S P Q C E K A F Q T L K E R L V S S S P P V L V L			
UniRef90_W4XWN2	R P L H A L T H D S R P F Q D K W T D E C T A A F K E M K M R C L T S S P L L G Y			
UniRef90_Q6UUL1	I A R P M T Q L L K K D E K F K W T A E C D K S F E E L K K K L V S A P V L I L			
UniRef90_D7GY52	L A K P L T N L T K K D V E W R W G E E Q Q D A F Q R L R H L L S E R P V L A A			
UniRef90_Q7XVB0	A I Q Q M K P P S S I H E V Q K R Q A A F D E L K Q Y L Q S P P A L L S			
UniRef90_A5B903	R P F F L A I R K A G T S G W T D N C Q N A F E K I K H C L M Q P P I L S S			
UniRef90_E3MHE6	L R P P L D A L T K K D T P F R W S R A D E Q D Q I K H C L M H P P I L S S			
UniRef90_A5BZS6	R P F F L A I R K A G T H G W T D S C Q N A F E K I K H C L M H P P I L S S			
UniRef90_Q2AA42	I A R P L T N L L A K D T S F V F S P D C L K A F E Y L K K E L T T A P P I I H A			
UniRef90_K7EY7	U R P L T D M T R N N Q P Q K V R W T E R G R Q A F D T I K R R L V S A P P I L R Q			
UniRef90_W6NWU0	V A A P L H E M T S E K T L F Q W N P A R K S C F D Q L K S I I I V H A P V L A Q			
UniRef90_A5B5E9	I S K P L C E L L V K D A K F V W D E K C Q K S F E E L K Q F L T T A P P I V R A			
UniRef90_A5BJJ2	L S K P L C X L L A K D A K F I W D E X C Q N X F D Q L K K F L T T T P P I V R A			
UniRef90_UP10002C2EA60	K L A R P L S L L Q K D V P F H F D A E E C K E A F E R E L L K T M L T S A P P I M A P			
UniRef90_Q7LT9	Q P F F A L L L K K Q D K F V W T Q E A E E A F I A L K R Y L S N P P I L V A			
UniRef90_A0A015IZV2	I A E P L H R L L K K N I P Y L W A N D D Q Q E A F K K L V C T T P L I L A Y			
UniRef90_G0MLE3	L R P P L D A L T K K D A E Y K W T H E C Q K S F D R I K E I I Q S D L L T H			
UniRef90_UP10003D275B0	M C E P I F K L L K K D A L T K W T E E C Q T A F D A I K S Y L L S N P P V L V S			
UniRef90_U6PVC6	I A R P L F E L T N T K T P W R H R S E E E A F E Q L K A S L V Q Q P P V L A Q			
UniRef90_UP100046DF48E	H P L C N L L A K D V P F H F D K D C M N A F N T L K R E L T S A P P I I M A			
UniRef90_V2X5X6	V T R P L N D L L Q K N R K F E W T T Q C Q L A F D L L K A K F L L S K P I L V M			
UniRef90_A0A016W528	I A S P L T A L T K K D T P F I W A L E C E T A M N L L K Q Q A L T T A P P I L V A			
UniRef90_Q8I7Q2	H S R H T R L C N V Q F E W T A E C N D A F E Y L K T E L M K P T L L Q Y			
UniRef90_UP100046DBCEF	I S R P L C R L L G K D V E F F E N A C L J A A F N K L K E L L T S A P P V I Q P			
UniRef90_Q4QQF4	L R A P L N N L L A K N V K W D W S A D C Q A A F E E I K K I I V S D L L T H			
UniRef90_Q2R6U9	E H F T P L R L K A D Q E F T W G A E Q Q K A L D N I I K E Y L S S S P P V L I P			
UniRef90_M5C4N7	I R P L T S L T Q D P W V W E A A Q R E A F H H I K I A I S Q E P V L A H			
UniRef90_W4XSZ5	V P L Y G L T G K H P F H W E A E H Q C A F E K I K R L L V S A P P V L T L			
UniRef90_A0A016STT2	L R A P L D A L L K K N T P F K W S P D C Q H A F E K A K E V L A S P P L T H			
UniRef90_UP100034FE794	L S K P L T S L L K K D A S F L W T N E Q Q L A F E T L K D K L I T S P P V L I Y			
UniRef90_A0A015J1N0	V A D P M Y K L L K K D A P Y E W N L Q Q K A F E N L R D K L T T A P P I V Q Y			
UniRef90_K7EW47	L L K P L H E L L G Q N K V W K W T D A C D V A F N K A K C L L N A E V L T H			
UniRef90_V5GN60	I T A P L T K L L R K S E P F E W S D E C E C A R Q L I I E K L T D K P V L R I			
UniRef90_A7HTH9	A D K T E P I Q K Y V T G Q T E W S D L Q D K A M V E L K D I I S S E P P V L V A			
UniRef90_A5BWK7	L S K P L C E L L A K D A K F I W D E R C Q N S F D Q L K K F L T T T P I V R A			
UniRef90_UP100025F40E	H P L Y N L L Q K D V K F I W N N E C D R A F C L V K K H I C S P N V L A H			
UniRef90_I1BZS5	I A R P L H D Q T K T K K I P W T Q T T E S F E T L K K L L T T A P V L A R			
UniRef90_UP10003501CB2	L L I Q P L H E L L Q K D T K W A W S A E C E K A F Q D A K Q R L T N S K W L A H			
UniRef90_V2WRG3	I A R P L N N L T K K D T K F K W T K E C Q T A F D A L K W K F L S E P V L I M			
UniRef90_A5APP4	R P F F L A I R K V G A H G W T D S C Q S A L E R I K H C L M Q P P I L S S			
UniRef90_A5AIU4	R P F F L A I R K A G A S A W I D N C Q S A F E K I K R C L M Q P P I L S S			
UniRef90_11GB16	A Q H T L L N K T H A K S E L Q W S E E C I L A F N S V K N A L A N A T L L Y H T			
UniRef90_E3M1T4	I V K P L T T L T Q D V E F N W G E E Q E K A F E E V K Q R L I S S P P I L T T			
UniRef90_A5BKR4	I C E P I F R L L R K N Q P T V W N D D C Q L T F E K I K G Y L L S P P V L V P			
UniRef90_L7MM80	H P L T S L L K K D A P W Q W T N Q E D A F G R L K E A L A H D A V V N L			
UniRef90_A5C645	I C E P I F R L L R K N Q P T V W N D D C Q F A F E K I K E Y L L S P P V L V P			
UniRef90_UP1000388C862	A P L T G L L T K D R P R Q V Q W S L K C E A A F R T L Q K C L C Q E P V L Y S			
UniRef90_UP1000234AF7	I S K P L C D L L K D A S F M F D E H C M E A F E K I K E M L T Q A P I L M M A			
UniRef90_UP10003C47A0D	A R P L Y S A T G G K E A A L V W T E K E E E A Y R K L K E A L V S A P A L A L			
UniRef90_A5AQ82	L S R P L C E L L V K D A K F V W D E R C Q K S F D Q L K Q F L T T A P I V R A			
UniRef90_A5BA01	R P F F L A I R K A G A G N G W T D S C Q N A F E K I K H C L M Q L P I L S S			
UniRef90_A0A016S258	L R G P L D A L L K D E D V K W E W T S Q K Q L A F E V K I K G Y L L S S E L N L A H			
UniRef90_Q0ZCDO	I S K P L C S N N L T K D N I F E W T E H C E E A F V K L L K N L L T S A P V V Q P			
UniRef90_UP1000395DD36	K P L Y E A L K E P Q L S W N R Q R K K A F E D L K Q A L K E A P A L G L			

330            340            350            360

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UniRef90_UP1000393EF75	P D P T L P F V L D T D T S N V G L G A V L S Q V G D N T E G Q V A R W
UniRef90_W4XVS0	P R F G E E F I L E V D A S L K G L G A C L S Q P D R N G H L H P I S F A S
UniRef90_M5X4A3	P N L Q K P F D V E A D A S N Y A M G A V L F Q D G K P V A Y H S K M F S G P V
UniRef90_UP10002A4B27E	L D P D R Q F I V E V D A S D S G V G G V L S Q R E V G
UniRef90_A5BRB4	P I S G E L F T I Y C D A S T V G L G C V L M Q Q D K V V I A Y A S R Q L K Q H E
UniRef90_A5B9Q1	L I P K E K L Y M Y L A V S E W A I S V V L F R C P L P K E Q K P I Y Y E T R Y
UniRef90_UP1000350B709	P D V T K P F T I V F D E L R G I A K G V L T Q D I G P W K R P I A Y L S K R
UniRef90_A0A016W340	P D H S R P F I I Y T D A S G D G L G A V L C Q E G S D K M L H P L Y F A S K S
UniRef90_K9FA30	P D R T K P F T I E T D A S E W A I G F V L G Q E G Q D G K M H P V A F
UniRef90_M1WIRO	F N P S V P V V V E A D A S D F A L G G V L S Q Q S S D Q K L H P V A F H S R K
UniRef90_Q7XWF5	P D T R K D F M
UniRef90_UP10002038F03	P D P K T P F V V Q A D A S D V A I G A I L M Q P V G E H L H P C A Y Y S R Q L
UniRef90_Q6UUL9	P D Q T K D F Q V Y C D A S R H G L G C V L M Q E G R R T W L E L I K D Y D M S
UniRef90_Q79P3	P D I R K D F E I F C D A S R Q G L G C V L M Q E R K V V I A Y A S R Q L R P H E
UniRef90_Q2QP03	P Q P N E E F L Y I A A T P Y S V T S V I V V E R E R E I M T S R K L R H Y
UniRef90_L0P1I7	P R P G E T L L I Y V A A T L Q T V S G D N I Q R P V Y Y V S E V L H G P K E R
UniRef90_Q7LHG5	F N A N Y R L T T D A S K D G I G A V L E E V D N K N K L V G V V G Y F K S L E
UniRef90_M5C9H3	A D P S K P Y F L E T D A L G A A L G S V L S Q R Q E D G C L H P I G Y L S E S
UniRef90_UP1000329E3E1	P N Y E K P F I I Q C D A S K L G V G A V L A Q K N I D G I E V P I A Y F S Q
UniRef90_E9ENJ3	W D P D R E T I L E T D S S G Y V V G G S L S Q R D N E G F L R P V A F F S K K
UniRef90_UP10003503516	P D F N S P F L L T C D A S N Y A I S A I L S Q G P I G R D R P V S Y A S R T N
UniRef90_A5BBP7	
UniRef90_Q8S718	P H P Q E P L L L Y V S A T S Q S M V L V V E R E E E G H I Q K V Q R P I Y F V
UniRef90_W6NQJ2	P N V T R P F I I Y T D A S K E G V G A V L C Q M G D D Q L L H P I F F A S K T
UniRef90_W4YWK8	A D L Q K P F V L Q L D A S G D G L G A V L C Q D C D G Q L R P V A Y S E R N Y
UniRef90_W4XLB8	P D F E K T F M L K V D A S D V G I G A V L M Q E H D G E D F K L L P R E Q R Y
UniRef90_M5X976	P E L T K V F E V A C D A S G V G I G V G L S Q E G H Y F N E K L N E A K Q K Y
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UniRef90_W4XI40	P D L D P F I L R T D A S D H G L G A I L L Q E T E G K K F P I A Y A S R R Y
UniRef90_K0IXD4	P D I T K P F E L F I D E Q K L G P W K R P V A Y L S K K L D T V A S G W P P C
UniRef90_K7I4G2	P D V N R P F M I Y T D A S R Q G V G A V L A Q E G E D G M Q H P I A F A S K S
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UniRef90_V5GGK9	P D F S K R F F L Q V D A S M G L G A I L F Q K S E D D
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370                    380                    390                    400

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

P A E □ N Y E □ H D K E □ L L A I V D C F K R W R P C

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

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

T K H S Y E □ L E A L A V V E A K I I T D C N A F A L T L R K R E V P P R V S R W  
 C N Y P T H D □ L A A V V H A L K I □ W R H Y □

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

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

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L R A I A A T A L L V K E A S K L T F G Q N L Q V V A P H L L R S P P E R W M S  
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L P P H R D F D H N I P L I P G A R P V N K K P Y  
I H P I A S H R L N V F P A A R P V R Q K I T R R F H P D R Q E V I R N E I  
I H P I V S H K L N V L P T A R P V R Q R V R R F H P D R Q K I I R E E I  
L P Q D K G V Q H E I D L V P G T K Y C V T R Q W P L P R E Q V K A I D D F F  
I S P T C M H K I L L E D N A M P K R D A Q R R L N P N M K E V R K E V  
H S V Q T E P G K V I R E T T R P L P Y R M R Q E V E E V V  
L P A D R G V R H E I D L V P G S K Y C V T R Q W P L P R D Q V K A I D D F F  
Y Q C K I K L K N D T P I C V K P Y P I P I A K Q E A V N R E V  
L P V S R P F D A V I R I D P S K Q L R C D P N R K F G R S K E E A L R K Y V  
P G D P V H I Y L L D D N V K P S I R P A R T I P E S L K D I V K A E L  
H L V Y T H I Y M E E E A K P I R Q P Q R R L N P H M Q E V V R A K V  
T S D R K D A I K E E L  
T H K I T L K S P T I I N E K P Y P T S P D K K R I I Y E Q L  
D N K P K W I P Q W P L T Q E K L A A V N D I V  
H S L Q V K E D A K R I K Q R L R R F A Q D R K D A I K E E L  
V H I P L L P N V K P F C R A R P I P Y A L L E K V N A E L  
V H I P L L P N V K P F C R A R P I P Y A L L E K V N A E L  
I S P V C T H H I Y M E E E A K P I R Q I Q R R L N P H L Q E V V R A E V  
L P P R R P Y D H Q I L S L P G K L P T K S P I Y K M P P D Q L A Y H T R E I I  
I S P V C T H H I Y M E E E A K P I R Q I Q R R L N P H L Q E V V R A E V  
L P P H R G D D H K I E L E S G K D P P W G P L Y N M T Q E E L I V L R K T L  
I V Q H H I P T I P H A R S V N Q K L R R L H P R W S L Q V K E E I  
H S S I A S H R L N V F S T A R P V R Q K I R R F H P D R Q K V I R N E M  
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P V F E K P R R L S P D K L L A A K K Q F  
V H I T L E A E A K P V V M P P R R V P L S I K E D L K E E L  
H K I E M V E G A S P V S Q K M Y R S S P Y Q K K I D E E V  
P R E V I E H R L A V R S D A R P V R Q K V R R Q A P E R Q A F I R E E V  
V Q E N A T P V F R P K R P V A Y G A T E V V E K E L  
M P G L S R I V E H R L P I K H G V R P Y Q Q P P R R C K A D M L E A V K A E V  
D E E P I Y A K L Y P Y P M G A A D F V N G E I  
P I V V Q L I S S A T P A C V F Q Y P M S R E A X G I R T H I  
I E D L Q M K I R L N D D T P V S R T Y M I P R P L Y S E V K E Y V  
Y Q Y H I T V D P N V Q P V V H P P R R V P L E R E R L K T Q L  
H H I A T T P G Q K V R D H H R P L P R K M W D T V Q M E L  
I Q M D I V D N G Q P V V C K P Y R A S A S E R E T I S R I V  
E K I T L K I K E G V M P V F C K P R S I P F A Y I E K V E K E L  
K V K E N S A P S F K K A R P V A Y A L L P K I V D E I I  
P G L D P S I V Q H R P L L P H A R P V K E E I  
L P P Y R A Y D C P I D L L P N V K L P V G P I Y S L S E P E L A A L R D F T  
I V D P R L P T D P A C P P V K Q K L R K Y K P E M S L K I K E E V  
T M D I T I K P G S E P F A T K P Y R V S R N E E E L Q R H V  
C L P A K H T T Q H H I A T T P G P P V S S K A R R L A P D K L K I A K A E F  
I S P V C M H K I L L E E N S K A I V E A Q R R L N P N M K E V V R A E V  
L P P H R P Y D C A I D L V K G A P I P R G H L Y S L T E P E Q K A L R E F L  
P G L D P F I V Q H H L P I L P H S R L V K E E I  
H T I Q T E P G V V I R G A I R P L P Y H V Q Q V V I E E V  
P H K K V H I D V E P N A K P V H S R A Y P I P R V Q L E T F K R E L  
P I I V Q L V S T A T P V R V R Q Y P M S R E A Q H G I R N H I  
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50                    60                    70                    80  
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 K R L Y D A C F I | R P C Y R A E W V S S I V P V I K K N D L N K  
 H K L M A A G F I | K E V F H P E W L A N P V L V R K K G G K W R M C V D Y T  
 S E L I A S G N V I P S E S P Y A A P V I F | V Q K K D G T K R L C V D Y R  
 E E

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

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

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

R G

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

A S P F F F V A K K E A G A L R P C Q D Y R

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

R A A L Y R E

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

Y R A

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

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

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

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

L K L L D A G V I Y P I S D S W V S P V H V V P K K T R M T G W R V C I D Y K

E T N L R K G F I R P S Q S P A A S P V L F V E K K T G E L R L C V D Y Q  
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UniRef90_D6X3N4	E L N K I T K D N F P T P L I E D Q L D R L Q N K R Y F S S L D L K N G F Y H V			
UniRef90_A0A023EXQ4	K L N K T I E D K F P L P N I E D L F G K L G R A T Y F S A I D L A S G F H Q I			
UniRef90_Q2R9A6	D L N K C P K D P Y P L P R I D Q I V D S T A G C D L L C F L D A Y S G Y H Q I			
UniRef90_V2WNN8		D K L K G A E I F T K L D L R N G Y N N V		
UniRef90_F4QBK5	T L N A I T E D E N H P I Q F I P V L L T K M A G A K I F S K L D A K K G F Y Q I			
UniRef90_V2WSN7	D L N T I K N R Y P L P L V T D L V D K L K T A R V F M K L D L C N G Y N N I			
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UniRef90_V5I9E9	Q L N K V T R D A Y P L P F V S A T L D K L R D A H Y L T T L D I K A A Y W Q I			
UniRef90_Q8S653	L N D I T E K N K Y P M P V V D E L L D E L L A G A K W F T K L D L R S G Y H Q I			
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UniRef90_U6PJR1	V N A I S R F N A Y P M P R V D E L L G R L G E A Q F I T T L D L S K G Y W Q I			
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UniRef90_J9K170	L N E A T I R D R Y P S P D A L A L I D K L K G A K I F S K F D L T S A F W Q V			
UniRef90_S4BHQ2	L N V A L K R E H F P L P P V L D D I L L P S L T D A S T F S V C D L R N G Y L H C			
UniRef90_W4Z554	K L N V T V R N D H F P L P P V L D D I L L P S L T D A S T F S V C D L R n g y l h c			
UniRef90_A5BDG9	D L N K S C P K D P F L P R I D Q V V D S T A G C E L L S F L D C Y L G Y Y Q I			
UniRef90_Q60EL2	K L N A V T I E E P T L P P K I T E T L K N L G A A K F F T T L D L K S G Y W Q I			
UniRef90_V5G273	A V N Q Q M Q P M G A L Q P G L P V P T M I P K H W P L I V L D L K D C F F S I			
UniRef90_Q8NFP1	D L N K S C P K D P F L P R I D Q E S D C L L K			
UniRef90_Q7XRV8	V N Q A A M C D S Y P L P R T E D L F A T L A G G Q K F T K L D L A F A Y Q Q L			
UniRef90_T2MJH3	K L N A V T R D H F P L P F I D Q V L E R V S G H P F Y C F L D G Y S G Y F Q I			
UniRef90_A5C456	K L N S V T V D T Y P I P D I N N I L S N L R N S K Y F T T L D L T S G F H Q I			
UniRef90_U5EX15	T G L N D S L D Q H P L P T A E D I F S T L N G G K Y F T Q I D L S E A Y L Q I			
UniRef90_K7HFU9	V N S C V E P E P Y P L P N A K D I L F A T L A G R K F F I K L D L S F A H Q Q L			
UniRef90_H2ZYF8	A L N A V T A S G F P I P N V Q T I L I E S M G G A K Y F S T L L A L E A G F H Q I			
UniRef90_U6H268	K L N A V T R D H F P L P F I D Q V L E R V S G H P F Y C F L D G Y S G Y F Q I			
UniRef90_A5ACM9	A L N A I T K D R Y P L P L H E T L I N Q I G Q A R W F T K L D V S A A F H K I			
UniRef90_Q5AY30	L N Q V T V K D K F P L P V M E E L L E E L G G G S T I F S K I D L R S G Y W Q I			
UniRef90_A5B326	L N G L T T P D R Y P I P P H V Q D F N Q L L S G K G K I F S T L D L E R A Y H Q I			
UniRef90_J9KB96	D L N K S P K D D F P L P P H I D L L V D S T A S H S M V S F M D G F S G Y N Q I			
UniRef90_A5ANV1	L L N S I S N D R H P I P P K I I E E I F D Q L Q G S T I F T T L D L R Q A F H R F			
UniRef90_I1BL30	N L N C N C P K D S F P L P P R I D Q I V D S T S T S R Q G M L S F I D D F S G Y H Q I			
UniRef90_A5BCG2	E L N K V T M N K Y P L P P Q I D Q I L D F Q F Q G A C V F S K I D L			
UniRef90_A5BP88	T K Q V P Y P L P R I D Q I V D S I A G C E T L S F L D A Y S G Y H Q I			
UniRef90_Q8S463	C L N K A L R D E Y H P L P T C E D I F G K L R G S I F S Q I D L K D A Y L Q V			
UniRef90_K7GSV1	H L N R S K R E H Y P L P L S T D D V L P Q L A N V K V F S K A D L K E G F L Q C			
UniRef90_W4YGB2	V N S Q S K R S R Y P V H V D M N S R L L G K A K Y F S A I D L S D A Y W Q I			
UniRef90_W4VRD9	D L N K C P K D P Y P L P R I D Q I V D S T A G C D L L C F L D A Y S G Y H Q I			
UniRef90_D0ABG8	L N T A L E D E D H P I P P A P E D V F A T L N G G K L F S T T V D L K D A Y L Q V			
UniRef90_E3N2U8	L N A Q T V K D S Y P L P L I D D I I D S I C D A R I F S T L D L R S G Y H Q V			
UniRef90_F2UB97	I N R E A T P D K Y P M P V A D Q L V D A S G H K I F S T L D L R S G Y H Q V			
UniRef90_Q2QXA7	D L N K A T P D K Y P M P V A D Q L V D A S G H K I F S T L D L R S G Y H Q V			
UniRef90_Q967T5	K L N E R T P D R Y P M P N I S M I L G N L G K A K Y F T T L D L K S G Y H Q I			
UniRef90_W4Z5S8	D L N R A I T R R C H Y T I T T D E V I H K L S G A R H F S K L D A K N G Y W S I			
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UniRef90_W4YLR5	E L N K T I L D R D Q P L P R I Q D V D V D G L G G G S C W F T T L D Q G K A Y H Q G			
UniRef90_W4ZA14	D L N K A K R D H Y P T P T L I E E I T P S L A G S K V F S K L D A S N G Y W N I			
UniRef90_UPI0003890F7F	K V N A I R F D A Y L M P R V D K L L E R L L G G A R Y L S T L D L T K G Y W Q I			
UniRef90_A0A016TQP6	E V N K V T K D S Y P L P L I D V T L Q G L E G K Q F F T S L D L A S G Y W Q V			
UniRef90_X1XTW9	K L N Q T V K D S Y P T P N L D E H L E Q L H G A K M F T T L D L A S G Y L Q V			
UniRef90_X1XU31	I N K Y L E D Y N Y P L L K V E E L F V A L Q G G K F F S K L D F I N A Y N Q L			
UniRef90_A5CBL5	L N N S I E D D A Y P L P T A E S I F A K L N G G G R Y F S Q L D L A E A Y L Q I			
UniRef90_V8NGD9	D L N K S P K D D F P L P H I D M L V D S T A G H S M L S F M D G F S G Y S Q I			
UniRef90_UPI0002BC8457	L N A L T V R N Q Y P L P L I P E L I E Q L C Q A K I F M K L D L R R A Y N L V			
UniRef90_X1XTY6	D L N K S P N D N F P L P N I H I L I D N C A K H E T Q S F V D C F A S Y H Q I			
UniRef90_A0A015L1E1	R L N D Q A V K Q Y P L P N I D N L L E Q M A G Y R M F T V L D L A H A Y L Q I			
UniRef90_B6Q9J0	K L N K T K K D R Y P L P L I D E V F E R I S S Q A K I F T K L D I R Q G F H C I			
UniRef90_W8BQZ8	Q L N A R T P D R Y P V R V L I E D F T A N L A G K R I F S T L D L V R A F N Q I			
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UniRef90_UPI00046E1EC5	K L N S S T R D H F P L P F I D Q M L E R L A G H S H Y C F L D G Y S S Y N Q I			
UniRef90_A5AMM8	K L N N I T R N R N P L P L I D P D L L D R L R G A R V F T K L D L A F S X Y H Q I			
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UniRef90_UPI000388BE77	R F N A I K F D A Y P M P G I D E L L G R L G E A C F I T T L D L S K G Y W Q I			
UniRef90_B1PJ54	A L N K I K R K Q Y P L P I I T E I I R R T G Y S F T T K L D I S M Q Y Y T F			
UniRef90_UPI000443DB8F	E V N K T V E T I H P T V P N P Y T L L S L P D R T W Y S V L D L K D A F F S L			
UniRef90_X1XPJ2	R L N N V T P D R Y P L P Y L H D F T A N L A K T I F T K L D L V R A Y N Q I			

130                    140                    150                    160

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UniRef90_Q8W0Y2	R M K E S D Q L V T S F I T P	F G M Y C Y V T M P F G L R N A G A	
UniRef90_Q8TF12	A I A D E D Q Y K T A F T T H	R G Q Y S W R V M P F G L T N A P A	
UniRef90_A5BSW9	R M K E G D E W K T X F K T K	Y G L Y E W L V M P F G L T N A P S	
UniRef90_V5HOH7	P V K E S C R E I T A F T V P G G	R G L Y H F K R M P F G L S N A P A	
UniRef90_A5ADF7	E I D V E D Q E K T T F T C P	F G T Y A C R R M S F G L C N A P A	
UniRef90_Q60DB4	R I R E E D I P K T A F T T R	Y G L Y E F T M M S F G L T N A P A	
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UniRef90_A0A016UF53	S L F E D A K Q K S A F T T T E	G L Y Q F C V L P F G L S S S P P	
UniRef90_A0A016TMZ3	P V E E S H R E R T A F Q C F L	G L Y Q F I T M P M G L K G A P G	
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UniRef90_A5AV67	L M A L E D M E K T S F I T K W	G T Y Y Y W V M P F G L K N E G A	
UniRef90_U6PFB9	E V D D E A K E L L T I N T H	R G L L R Y N R L P F G V K S A P G	
UniRef90_G0NS51	R L D P A S S Y K C G F I T E S	K V Y A Y T H L P F G L K S A A S	
UniRef90_Q817P9	H M K E S D I P K T A F S T L N	G K Y E F L R L P F G L K N A P A	
UniRef90_Q2R411	F M A E E D M Y K T A F R C P	G F V G L F E W V V M T F G L K N A G A	
UniRef90_V5GNV6	A L S E D S K E K T A F S V P G	R G L F H F K R L P F G L S N A A Q	
UniRef90_D6X3N4	K M A K D S I K Y T S F V T P L	G Q F E F L K M P F G L T N A P K	
UniRef90_A0A023EXQ4	E M D P E S I P K T A F S T E T	G H Y E F L R M P F G L K N A P P	
UniRef90_Q2R9A6	R M A R E D E E K T A F I T P I	G T Y C Y T T M P F G L K N A G P	
UniRef90_V2WNN8	R I K D G D Q W K A A F K T N	K G L F E P T V M F F G L S N S P A	
UniRef90_F4QBK5	R I R E E D K E K T A V Q T P M	G V Y H Y R V M P M G V R N A P A	
UniRef90_V2WSN7	W I K D G D Q W K A A F K T P	R G L F K P T V M F F G L T N S P A	
UniRef90UPI00045DED4	P L A P K S Q D L F V F E W A D P S E S I N	P L Q T W T R L P Q R F K N L P T	
UniRef90_V5I9E9	P L S E E S K P L T A F V I P N	R G L F Q F R R M P M G L H N A P A	
UniRef90_Q8S653	R L T E C D E A K R A F R T H H G	H Y E F R V M P F G L T N A P A	
UniRef90_A5AJK5	P M S P D D E E K T A F I T P H D	L Y C Y K V M P F G L K N A G A	
UniRef90_A5BQ11	P M S P V D E E K T A F I L M P H	G L Y C Y K V M S F G L K N A C A	
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UniRef90_A5C895	L M A L E D M E K T T F I T K W	G A Y C Y K V M P F G L K N V G A	
UniRef90_H3H616	L M R E S D I P L T A V R T P S	G M L W E W L V M P Q G L K N V P A	
UniRef90UPI00046D9E72	A I A P E D Q E K T T F T C P	F G T F A Y R R M P F G L C N A P A	
UniRef90_U6PJR1	P L S E D A K R K S A F T T S E	G L F Q F K V L P F G L C T S P A	
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UniRef90_H3H8Y1	L M R E S D V P L T A V S T P S	G M L W E W L V M P Q G L K N A P A	
UniRef90_J9K170	P L A E E S R A P C S F L I N G R N	F S Y T R L P F G L C I S G A	
UniRef90_S4BHQ2	R L S A D S E K Y T A F P C D	G K L Y Q H R V M C F G L V N A P A	
UniRef90_W4Z554	P L D E E S S L L T T F A T P W	G R Y K W K R L P F G L K A S S E	
UniRef90_A5BDG9	E I D V E D Q E K T T F T C P	F G T H A Y R R M S F G L C N A P A	
UniRef90_Q60EL2	R L K E S D Q L E K T S F L T P	F G A Y C Y I T M P F G L K N A G A	
UniRef90_V5G273	P L D E Q S K D L T A F S T H D	G A T Y R F T V L P F G L K G A P K	
UniRef90_Q8NFP1	P L H E Q D I Q R F A F T V P S I N H Q G P	D K R Y E W K V L P Q G M T N S P A	
UniRef90_Q7XRV8	ASF I T P	F G A Y C Y V T M P F G L K N A G A	
UniRef90_T2MJH3	LL D K S S C E L L T V N T H	R G L F E P T R L Q F G V H S A S G	
UniRef90_A5C456	E I D L A D Q E K T T F T C P	F G T Y A Y R R M P F G L C N A P A	
UniRef90_U5EX15	K M K D C D V Q K T A F S T L N	G K F E F L R L P F G L K N A P A	
UniRef90_K7HFU9	E V D E D S K K M L T I N T H L	G L F Y P N R L P Y G V K S A P A	
UniRef90_H2ZYF8	E L E P G S E P F L T I N I Q	K G L Y R Y H Q L T Y G V S T V P A	
UniRef90_U6H268	R M T K E D R W R T A F R S V Q	G L L E Y K V M P F G L K G A P A	
UniRef90_A5ACM9	E I D V A D Q E K T T F T C P F E	T Y A Y R R M P F G L C N A P V	
UniRef90_Q5AY30	R I	A K G Q E M D D C L P T F Q K	
UniRef90_A5B326	R M H E P D V P K T A F K T H E	G H Y E F L V M P F G L T N A P S	
UniRef90_J9KB96	P V I N A D D I Q K T A I T T P	F G L F E F V R M P F G L K N A A Q	
UniRef90_A5ANV1	L M A S E D M E K T T F I T E W	G T Y C Y R V M P F G L K N V G A	
UniRef90_I1BL30	Q I L Y E P D R V K T T F T F E	G Q Q Y Q F R G C P F G L K H I A S	
UniRef90_A5BCBG2	P M S X D D E E K T A F I T P H D	P L Y C Y K V M S F G L K N V G A	
UniRef90_A5BP88		Q Y G R Y E F L V M S F G L T N A P T	
UniRef90_Q8S463	R M K E S D Q L A T S F I T P	F G M Y C Y V T M P F S L R N A G A	
UniRef90_K7GVS1	E M D E E S Q H L A V I N T H	K G L F K Y K R M A F G L K T A P A	
UniRef90_W4YGB2	K L D A E S S K L T T F Q T P W	G R Y R F L R L P F G L S P S P E	
UniRef90_W4VRD9	P L E K S S R D K T S F R T Y	R G Q F Q F R N M C F G L Q G A S G	
UniRef90_D0ABG8	R M A R E D E K K T A F I T P V	G T Y C Y T T M P F G L K N A G P	
UniRef90_E3N2U8	E L S D D S K A L C T V N T H	R G L L E Y Q R L P F G A K T A P M	
UniRef90_F2UB97	R I R A G D E D K T T F R T R	Y G T F R F L V L P F G L T N A P P	
UniRef90_Q2QXA7	F M A E E D I H K T A F R C T G A I S	L F E W V V M P F G L K S I G A	
UniRef90_Q967T5	T L A E R D R E K T A F A V N	G G K Y E F R R L P F G L R N A A S	
UniRef90_W4Z5S8	K L D H D S S L L T T F N S P	F G R Y R Y L R M P F G L A M S Q D	
UniRef90UPI000443D944	P L A P Q S Q S P I F A F E W T D P E E G E T	G Q L T W T C L P Q G F K N S P T	
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UniRef90_W4ZAI4	K I T E E S S M L T T F N T P	F G R F R F N R L P F G L R V S Q D	
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UniRef90_X1XU31	E I C E D T Q K L L A W S T H	K G I Y K V K R L P F G T K P A C S	
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UniRef90_A5CBL5	L M A P E D M E K T S F I T E W	G T Y C Y R V M P F G L K N A G A	
UniRef90_V8NGD9	H I H A G D K W K T A F R M R	Y S H F D Y T V M P F G L T N A P A	
UniRef90UPI0002BC8457	E M H K D D A E K T S F I T P W	G V Y N Y K V M L F G L K N A G A	
UniRef90_X1XTY6	P L T D A A K P L T S F I T P	D G T G Q F T L M V F G L K N A P F	
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UniRef90_B6Q9J0	R M H K D S S D L T T F R C R	Y G T F K Y G V M P F G L T N G P A	
UniRef90_W8BQZ8	P V A T D D I N K T A I T P	F G L F E F P E M T F G L R N A A Q	
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UniRef90_B1PJ54	E L D D E S K E L C T V T P	F G K F K Y N R L P M G L K C S P D	
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UniRef90_X1XPJ2	P L A A A D V H K T A V T T P	F G L F E F P V M C F G L R N A A Q	

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170            180            190            200

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 M Y Q R C M N H V F G E H I G R M V E A Y V D D I V V K T R K A S D L L S D L E  
 T F Q R L M N Y V L R D I N K I C V V Y F D D I L V Y S K N E K E H S  
 T F M R L M N H A L H X F I G R F V V V Y F D D I L V Y S K N E K E H S  
 T W Q R L I D T V L G P E L E P Y V F V Y L D D I I I S P E F D T H M  
 T F Q R L M N Y V L G P E L E P Y V F V F Q Q F F M D D I T I Y G S T F E E C L  
 F F M N L M N K V F M E Y L D K F V V V F I D D I L V G R P S A A S P  
 L F N K A L S D N L R E Y R G Q N S Q V T L L Q Y V D D L L I A A P D R A G C L  
 V F Q R L M H T V L G P L L G E E V F C Y L D D I I I A T H T V E K H L  
 T F Q K I S N S L I R E L R S C T F A Y I D D I V T C A D D F D Q H V  
 T Y Q R A M T Y I F A D M L H N T V E C Y V D D L V V K T R K R Q H H A D L R  
 T Y Q R A A T T L F H D M M H T D V E V Y V D D M I V K S R D R T D H L L  
 I K S M I C G L E G C A A Y L D D V I V T G R N I E E H V  
 Y F Q R A L R T V L G G L E D E V L V Y I D D I L I Y S K T F D Q H L  
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 V F Q R C V Q V I F D D L I R D N K I L V Y L D D I L V A T E T L E E Q F  
 T F Q R A M N I I F A D I P N A L V Y M D D I V F S D S L T E H L  
 T F Q R T T R I S L G N Q L G R N V E A Y V D D L V V K T R N Q E M L L  
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 I C Q L Y V D Q A V E P V R Q Q C P K V Q I L H Y M D D L L I T A E S E S H H  
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 I F Q Q I V D T M I S G L E G V A A Y M D D L I I C G S T V I E E H N  
 I F Q N T M D Q I L H S L D R A V C C M D D I L V T A P T I E E H L  
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UniRef90_W8BQZ8	K H L R M L F E R L R A K Y G V V I N T A K C C L Q G P K V D F L G H R I T G E G			
UniRef90_W4ZBK0	K N L Q E V L L Q R F R D A G L K L K P S K C V F F K K E V T Y L G H I I N T A G			
UniRef90UPI00046E1EC5	S N L T L G I E V D K A K I D L I A K L P P			
UniRef90_A5AMM8	L H L Q E V F H X L R K Y G M K L N P S K C X F G V S A X K F L G F M V S Q R G			
UniRef90UPI000203950A	Q H V R Q V L Q W L F			
UniRef90_A5BA48	M D R F F V R I Q K F R L R L N P K K C T F R V T S W K L L G H M V S D R G I E V D			
UniRef90UPI000388BE77	V L R S L R A A G L T A N P K K C R I G W Q E T T Y L G Y T I G N G Q V K P L M			
UniRef90_B1PJ54	D L L D T I L G R L E D N G F T I N P L K C E W G I K E T D W L G Y W L T P H G			
UniRef90UPI000443DB8F	T A T R D L L E A L G S L G Y R V S A K K A Q L C T Q E I T Y L G Y Q I K E G R			
UniRef90_X1XPJ2	E H V R T V L G R F E E F G A V N P A K C V F A A D S L T F L G H V V D A Q G			

250            260            270            280

UniRef90_M1W2W0	I K V D P E K V E A I I S A W E E P T N R S F L G F A N F Y R E F A P Q F A D		
UniRef90_Q53RL5	I E V T Q R S V N A I K K I Q P P E N K T E L G K I N F V R R F I S Y L S G R L		
UniRef90_Q8W0Y2	P E K I A A I T S M G L I K K D L K G V Q R V M G C L A A L S R F I S R L G E		
UniRef90_Q8TF12	I T P D K E K I L A I K D W P Y K D A Q S F I G G L A G Y Y R F I K D F S Y I A		
UniRef90_A5BSW9	I E V D E E K V K A I K E W P T P X V R S F H G L A S F Y R F I V K D F S T		
UniRef90_V5HOH7	L H V D P E K V E A I I P T N T T E V R R F L G M A S W Y R F I V P D F S S		
UniRef90_A5ADF7	V E V D K A K V E I I I R L P P P T T R Q F L G H V G F Y R F I K D F S	K	
UniRef90_Q60DB4	P E T V T A V T D W K Q P K I V T Q V R S F L G L A G Y Y R F I E N F S		
UniRef90_UP100045D6252	R W M K Q T I L Q I P X P T N P R Q I T E F L G T V G Y C R L W L D F A T		
UniRef90_A0A016UF53	L H M D P S K V E A I V N Y P L P Q S R S F L G M C S Y Y R K F V L G F A	K	
UniRef90_A0A016TMZ3	S R I N P K R I A S I T K Y P V P K T K S F L G A A S Y F R R Y I P N F A K I A		
UniRef90_UP10002C3329E	P T K I T A I R E M P P P R D L R E L Q R G L Q G R L A Y I R F I S N S G R C		
UniRef90_A5AV67			N
UniRef90_U6PFB9	R R P D P A K I E V I R K M P N P Q V R S F L G M L N Y Y G H F I S E M R Q		
UniRef90_G0NS51	Y S P D K A N T E F P T P T N I N E I R R F V G M A G F F R K F I P N F S E		
UniRef90_Q817P9	I K A D P K K V R A I S E M P P T S T K R F L G M T S Y Y R K F I Q D Y A K V A		
UniRef90_Q2R411	V E I D P P K K I E K I R D F K A P T C Q K Q L L G K M N Y L R F I S N L A G K I		
UniRef90_V5GNV6	L R T S P S K V K A I V D Y P Q P R I K R Y L G M A S W Y R K F I P H F S T I T		
UniRef90_D6X3N4	I Q P N A Q N V Q F P V P K N T K E T Q Q F L G L V S Y F R K F I N Q F A V		
UniRef90_A0A023EXQ4	I Q P N P Q K L E V I K K F P I P K T Q K F L G L T G Y Y R K M V K N Y A R I A		
UniRef90_Q2R9A6	I E A N P E K I R A I R E M R P D V Q C V T G C M A A L S R F I S R L G E		
UniRef90_V2WNN8	I A M D P V I V D W E P P Q T V K G V R A F L G F R N F Y R K F I G K Y A H		
UniRef90_F4QBK5	I T N E E K T K P P M P E N V K Q L R R F L L G M I S F Y Q R F I Q G F T L V E		
UniRef90_V2WSN7	I S M D K T K L A R I K D W E A P K T V K G K Y T E		
UniRef90_UP100045DED4	R W L T R A R K E I P R P S T P H G V Q E F L G S A G Y C R L W I P G F A K		
UniRef90_V5I9E9	L M V D P G K V E A I V K I P P P R N R R L I G L A S W Y R F R V P N F S S		
UniRef90_Q8S653	V S T D L G K V K A V Q D W P V P K N R G F L G L V G Y Y R K F I Q G Y G L M T		
UniRef90_A5AJK5	I K V S P D Q V K A K E L Q R I T G K L V A L G R F I A R F T D E L		
UniRef90_A5BQ11	I E V S P D Q V K A V M E T P P P R S K K E L G K L V A L G R F I A R F I D E L		
UniRef90_V2WL36	I S M D E T K L A G I K D W E A P K T V K F L G F T N F Y Q K F I G K Y V E L A		
UniRef90_A5C895	I E V D L D K I K A I L D M I E K E I R G F M G R L Q Y I S R F I A R L I D		
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UniRef90_UP100046D9E72	A K I D L I A S M P S P T S V K E V R S F L G H A G F Y R F I K E F S K		
UniRef90_U6PJR1	V R V D P M K I E K I E K Y P K P K T R T F L G M C G Y Y R K F I V L G F S R		
UniRef90_UP100046BF222	V K P L A G K V Q A L A T C P T P T M R Q F L G L V G Y Y R R F I P Q F A S I A		
UniRef90_H3H8Y1	U H I C S W S P S S N P T E L R Q W L G L A N Y L H T K G Y A G L I		
UniRef90_J9K170	V K M D E S K I I E T V K D F K A P S N Q S F L G F I N F Y R F I D K F A H		
UniRef90_S4BHQ2	V A V D P R K V Q A V L N W K P P T D R E V V N G L A S F M R R H V P N Y A E E		
UniRef90_W4Z554	M K V D P S K V K A I L E M D P P K C R R L L R G M V N Y L S R Y L P H L T E		
UniRef90_A5BDG9	I E V D K A N V E L I V K L P S P T N R Q F L G H A G F Y R F I K D F S K		
UniRef90_Q60EL2	P E K I N A I L N M K P L P S S Q K D V Q K L T G C M A A L S R F I V S R G E R G		
UniRef90_V5G273	T Q P L T K H V V A I E N F N P P R T Q S F L G I C N W V R E Y V P K F A E Y A		
UniRef90_Q8NFP1	V T P L E F E I A I D G L Q T L N D F Q K L C G N L N W L R P Y C K T E D M M P		
UniRef90_Q7XRV8	P E K V T A I L N M K P P S T Q K D V Q K L T G C M A A L S R F I V S R L G E R G		
UniRef90_T2MJH3	V V P L E D I R N A P E P K D T T Q V K S F L G M I N Y Y H R H L P N L A T		
UniRef90_A5ACM6	I E V D K A K F L G H A G F Y R F I K G F S S		
UniRef90_U5EX15	L R P D P K K V L A I I P P K N L R E L K S F L G L T S Y Y R R F I K D F A K I A		
UniRef90_K7HFU9	R R P D P A K I T A I E K M P A P T D R S F I L G L V Q F Y G S F V K D L H N		
UniRef90_H2ZYF8	A P T E G K I V N A P A K N V M E L Q S F L G L L N Y Y G R F I L A N L L S T		
UniRef90_U6H268	D K V Q A I L L W P D V L A N E T Q V R Q F L L S T V N Y C R M F M G L A F A D		
UniRef90_A5ACM9	V K L P S P I T V K G V R Q F L G H A G F Y R R F I K G F S S		
UniRef90_Q5AY30	P E K V K A I K E W E T P T T I K G V R G F L G F A N F Y R R F I P N F S G		
UniRef90_A5B326	V Y T D P Q K V A A I Q R G F L G L T G Y Y R R F I V K D Y G		
UniRef90_J9KB96	T T P A A E R V K A I H E Y D R P K T R F F L G M L N F Y R R F I P N A A K N Q		
UniRef90_A5ANV1	I K A I L D M P A P K T E K E I R S F L G R L Q Y I N R F I A R L T D I C		
UniRef90_I1BL30	S R L D P N A L T W P R P S S G K E I Q R F I L G K L V A L G R F I A R F T		
UniRef90_A5BCG2	I E V S P D Q M E T P P P R N K K E L Q R I L G K L V A L G R F I E R F S K I V		
UniRef90_A5BP88	I S I D D V V S N W R P N T V T E I Q S F L G L A G C Y R R F I E R F S K I V		
UniRef90_Q8S463	P E K I A A I T S M G P I K D L K G V Q R V M G C L A A L S R F I S H L G E		
UniRef90_K7GV51	R R P D P K K T S A I R T M K A P N D Q K F L G A I C F Y S V S N I C T		
UniRef90_W4YGB2	U V R P D P S K V A A L V D M P Q P V D Q R F V G M V Q Y L A K F L P S L S G		
UniRef90_W4VRD9	L S L D S D K V A P I L D Y A T P R I R R L L G L A G F Y Q K F I R N F S E I T		
UniRef90_D0ABG8	P E K I R A I E W M R T P S K L K D V H C V T G C M A A L S Q F S R L G E		
UniRef90_E3N2U8	R R P D E A K V A P I K G M K E P V N Q K F M G M I T Y Y S A F P H M K S		
UniRef90_F2UB97	L K M H P A K A D A V E N W S T P Q S R S F L G L A N F N R F I A N Y A K I C		
UniRef90_Q2QXA7	E Q K I V A V K E F P K P N N K H E V R R F L G L C G F F R K Y I P S F S Q R A		
UniRef90_Q967T5	Q R S I N A I Q K I Q P P E D K A K L Q E L I S K I N F V R R F I S N L S G R L		
UniRef90_W4Z5S8	A A T D P E K V K A I K E F P E P K N R S F L G L A S Y Y R R F I K D F A S I A		
UniRef90_UP1000443D944	V I H P D P H K V E A I I K S M S P P E N K S F L G M I T Y L S P F I P N L S A		
UniRef90_A0A016TQP6	R A R I Q T V L K I P T P S T K R Q F R E F L G A V G Y C R L W I P G F A E L		
UniRef90_W4YLR5	H A P D P K D T K A K Q P K T V G D V R Q F L L G M I G Y F R K Y I P S F S Q R A		
UniRef90_W4ZAI4	V K P D P A K V E A I N H I E A P K D R S F L G L I Q Y M G I F P K L A D		
UniRef90_UP10003890F7F	L T P L I S K V Q A P V I P K T K K Q V R Q F L L G L A G Y Y R R F I V P D F A S I A		
UniRef90_A0A016TQP6	D K I V R I V E H P T P Q N A A E L R T F L L G M A G Y Y R R F I V L R F A H		
UniRef90_X1XTW9	E Q K I V A V K E F P K P N N K H E V R R F L G L C G F F R K Y I P H Y A M I L A		
UniRef90_X1XU31	I R K D K D I V E A R I P Q N V T E V K A F V G M I N Y Y A K F I P N L S T L L		
UniRef90_UP10002657370	R K P D P D K T K A I V E M P S P R N R A A L G M I T F Y S Q F I P D M K T		
UniRef90_A5CBL5	I E V D P D K I R A V E M D P E K I E S L Q A F V N Y Y R T F I P R F A A		
UniRef90_V8NGD9	F G V P A G N		
UniRef90_UP10002BC8457	S L Q A F V N Y Y R T F I P R F A A		
UniRef90_X1XTY6	LL L G F I V C R R G I E L D P S K I K		
UniRef90_A0A015L1E1	V R P G R A I E E F P K P K N E H E V R R F M G L A S F F R R F I V P K F A E		
UniRef90_B6Q9J0	I Q T D P E I R E F P I P R D L M Q L R G F I I A L A S Y Y R K F I V K G F S S		
UniRef90_W8BQZ8	I K V D P V K V E W K T S T T V Q G V Q S F L G M F C N F Y R K F I A E Y T		
UniRef90_W4ZBK0	I L P L P T K V E A I V N F P R P T T R E F L G M I N F Y R K F I K N F Q A P L		
UniRef90_UP100046E1EC5	V K P D P N N V E W P Q L R T P T D V R S F L G L A S F Y R R F I V P S F S K I K		
UniRef90_A5AMM8	I E V S P D Q I K A V M E T P P P R N Q R L T G K L V A L G R F I A X F X D E L		
UniRef90_UP1000203950A	P A K V T A V L E W R A P S N K K E V Q C S L L G F A N Y Y R K F I P D F A P		
UniRef90_A5BA48	P D K I K V I I D M L V P R T K K E I R G F L G K L Q Y I S H F I A K L T N I C		
UniRef90_UP1000388BE77	G K V Q A I A T C P P P A T K R Q V C Q F L G L A G Y Y R G R F I P Q F L A I A		
UniRef90_B1PJ54	V K P W K K I Q G I L D M Q R P T M R T F L G A V N Y Y R D L W P R R A H I L		
UniRef90_UP1000443DB8F	R A L S E G R I L E A P T P T K R Q V R F E F L G A V S Y Y C R L W I P G F A E L		
UniRef90_X1XPJ2	L R P N P D S A T A I R Q W P Q P K T Q R F L G S L N F Y H R F V A G K M Q A A		

290 300 310 320

UniRef90_M1W2W0	A A P L T E L T R R G K L W R W D E V H Q T A F D R M K E I L V C A P V L A M		
UniRef90_Q53RL5	E P F T P L L R L K A D Q Q F T W G A E Q Q K A L D D I K E Y L S S P P V L I P		
UniRef90_Q8W0Y2	R G L P L Y R L L R K A E C T W P E A E E A L G N L K A L L T N A P I L V P		
UniRef90_Q8TF12	K P L H Q L A A Q K I K W T D E C D R A F K A I R D R L I S A P I L T C		
UniRef90_A5BSW9	L A A P L T E I V K K S V G F K W G S E Q D R A F L E I K E R L L C G A P L L S L		
UniRef90_V5HOH7	I V A P L T R L T C K N S H F K W S D D C D R A F K A I R D R L I S A P I L T C		
UniRef90_A5ADF7	L S K P P C E L L G K D A K F V W N D R C Q R S F E Q L K Q F L T T A R I V R A		
UniRef90_Q60DB4	I A R P M T Q L L K K E E K F V W S P Q C E K A F Q T L H E E K L V S S P V L I L		
UniRef90UPI00045D6252	K A K S L Y E F S R E E S E W D W T P E R D S A F K E L L K E A L L K A P A L T L		
UniRef90_A0A016UF53	V A A P L H E L T S K K T K F E W T I E R K A C C S D E L L K R I I L T Q A P V L A Q		
UniRef90_A0A016TMZ3	N P L T G L T R K E S R N F I W R T E Q Q K A F E E L L K Q K L I S A P V L A A		
UniRef90UPI0002C3329E	Q P F T T R L M K K S N D V P F K W D Q A C Q R T F A R I K E X L L S P L V L V P		
UniRef90_A5AV67	I C E P I F C L L R K N Q P T V W S D D C C Q R T F A R I K E X L L S P L V L V P		
UniRef90_U6PFB9	L R A P L D D L L R K N A P F K W S A E C Q D A F Q R A K D V L A S D L L T H		
UniRef90_G0NS51	I S E P L T R L T R K E R K F E W N L D Q Q G A F E K L R T S L S S E P V L G F		
UniRef90_Q817P9	K Y A N I K S S Q S S K V P P T L D E T A Q Q S F N D L K S I I L C S S E I L A F		
UniRef90_Q2R411	D A F V P I L R L K K E A D F T W G A K Q Q E A F E E L K R Y L S T P P V		
UniRef90_V5GNV6	G P L N L R G P K K K N R P E W N E R A E E A F N E I K Q R L I S A P I L A A		
UniRef90_D6X3N4	I A K P L Y D L V R K D A K F H F G Q D Q L R S F E V L K S C L T T A P P V L C I		
UniRef90_A0A023EXQ4	K P L T Q A L R K D S K I D N N S D Y K N S F E K L E L L Q N N P I L Q L		
UniRef90_Q2R9A6	K A L P L F K L L K R S G P F T W T E E A E N A L T Q L K A Y L S S P P V M V A		
UniRef90_V2WNN8	L T R P L N N L L Q K N R K F E W T V Q C Q I A F D L L K V K F L S E P I L I M		
UniRef90_F4QBK5	P M R E A I A I K E K T K A G E L Q D N G W K A V L K C K E I L T S K P P V M K I		
UniRef90_V2WSN7	L A R P L H E L T K K N M K F E W T K I R D V A F N I L V K F L Q R P I L Q M		
UniRef90UPI00045DED4	L A K P L Y E A T R E G Q K F Q C A E T M E K S F N S L K T A F L S A P A V G L		
UniRef90_V5I9E9	L I A P L C D L L K K N R K F I W D D A C N S A F R S L K D C L I S A P I L S C		
UniRef90_Q8S653	N P L T K F L K K D D V K Y V W S P L A Q E A F D S V K Q A L T Q A P V L R L		
UniRef90_A5AJK5	R P F F L A I R K A G A H G W T D K W A I S A V L F H		
UniRef90_A5BQ11	R P F F L L A G A S G W T D S Y Q S A F E K I K H C L M Q P P I L S S		
UniRef90_V2WL36	Q P L H E L T K K N T K F E W T K T Q D I A F N V L K V K F L Q Q P I L Q M		
UniRef90_A5C895	I C E P I F R L L R K N Q P T V W N D D Y Q L A F E T I K E Y F L S P H V L V P		
UniRef90_H3H616	K I R P L S Q L L K K E A A W E W T A D C Q Q A F E A V K Q G L T E A P I L A V		
UniRef90UPI00046D9E72	U N I R P L C N L L A K D M D F V F D Q N C E N A F N A L K K M L T T A P I I I P		
UniRef90_U6PJR1	I A R P L F E L T S V K A P W D W N E T H E E A F G E L L K A K L T S T P V L S Q		
UniRef90UPI00046BF222	A P L T R L L I K N S P R Q V Q R T P D C E N A F R T L Q T C L C Q E P P V L Y S		
UniRef90_H3H8Y1	H P L S S L L K K D A T W S W R P E H Q V A F D S V K K S L A S A P I L M		
UniRef90_J9K170	I I E P M I E L V R K D K K K W A W N D H Q V A F D S V K K S L A S A P I L M		
UniRef90_S4BHQ2	L A R P M T M L T R K N V P F V W S A E C E K S F R A I Q Q A L V Q A P V L A Y		
UniRef90_W4Z554	V L I Q P I N D L L T H K D V A W T W D E I H E Q S F K K V K E L L T Q A P P L L K Y		
UniRef90_A5BDG9	L S K P P C E L L A K D A K F V W D E R C Q R S F E Q L K Q F L T A A P I V R A		
UniRef90_Q60EL2	M P F F K L L K K T D N F Q W G E L E A Q K A F E D F K K L T T P P V L L A S		
UniRef90_V5G273	Q P L T R L L I K N S P R Q V Q R T P D C E N A F R T L Q T C L C Q E P P V L Y S		
UniRef90_Q8NFP1	H P L S S L L K K D Q R F I W D P S C Q T A F E T I K S L I N R P L T L H R R		
UniRef90_Q7XRV8	L F N I L E G D A Q L D S P R R L T K E A R L A Q K Q I K A M Q M E R		
UniRef90_T2MJH3	M P F F K L L K K T D N F Q W G E L E A Q K A F E D F K K L T K P P V L A S H		
UniRef90_A5C456	I V E P L H R L L R K G I L W L W G M K E Q T A F D R A K E L C S P K L L M H		
UniRef90_U5EX15	L S K P P C E L L A K D A K F I W D E R C Q N S F D Q L K K F L T T T P I V R A		
UniRef90_K7HFU9	K P L T N L T R Q S K N V P I N L D K D A L K S F L N L K E L L T S S H I L I F		
UniRef90_H2ZYF8	F R G P L D E L T K K D V D F V W T K S C E S S F G R I K D V L K S D L L L T H		
UniRef90_U6H268	L L Q P L H D L L Q K D A K W N W S P Q C E A T F Q T C K Q K L L N S K W L A H		
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UniRef90_I1BL30	E P I F R L L R K N Q P T I K E Y L L S P P V L V P		
UniRef90_A5BCG2	A P L D K L R F E G K L D K L W T S E Q E S A F E K I K S S L L S S A P L L H H		
UniRef90_A5BP88			
UniRef90_Q8S463	V P L T K L T E K G V K F E W S N D Y E C S F Q E L K N R L V A A P I L T		
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UniRef90_E3N2U8	K A L P Q F K L L I K R S G P F T W T E E A E R A L T Q L K A Y L S S S P I L V A		
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UniRef90_Q967T5	R P I S D S R H R S R S I Q V E F S E A Q Q R A F E K L R N I L A S E V I L R Y		
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330            340            350            360

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UniRef90_V5I9E9	P N F D L P		
UniRef90_Q8S653	P D F T Q Q F V V Q T D A C D K G I G A H		
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UniRef90_Q7XRV8	P Y P Q E P L L L Y V S A T S Q V V S T V L V V E E E G H V Q K V Q R P I Y F V		
UniRef90_T2MJH3	Y D P K K E L L I L S C D A S P Y G I G A V L L A H V T S E G S E R P I T Y I S N Y		
UniRef90_A5C456	P N W Q L P F E I L M C D A S D F A I G A V L L G Q R E D G K P Y V I Y Y		
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UniRef90_W4VRD9	P D F T K K F T I E S D A S N L A V G S V L T Q E T P D G V K P I A Y F S K		
UniRef90_D0ABG8	P E Q D E P L L L Y L A A T P Q		
UniRef90_E3N2U8	F L P N V P I V V A A D A C D Y G I G A V I S H R F P D G T E K P I S H R S L N		
UniRef90_F2UB97	P D Q R Q P F E V A T D A S D R A I G A V V L L Q D G Q P V A Y E S R K L Q		
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UniRef90_UP10002BC8457	P E S G R P L L L Y I S V L D N A F S C I L G Q H D E T G R K E Q A I Y Y M R Y		
UniRef90_X1XTY6	F D A T R P T E L		
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UniRef90_B6Q9J0	Y D P S R P T R V E T D A S D G V V A A V L S Q L C E D G N W H L V G Y Y S M S		
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370                    380                    390                    400

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K A E R N Y P A V E L E L L S L L H F C  
 T S E T E A K Y H

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

L A G W P P C L H I I A A T A L L I K D A Q T L Y T T T P H A E G T L K Q P S

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

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

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

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

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

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

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

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

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

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

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

S T Y D R E L L A A Y L A A R H F V H S I E G R P T T L R T D H R P L L

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padding: 0 2px;">L</span> T E F D <span style="border: 1px solid black; padding: 0 2px;">L</span> R Y E S P K A <span style="border: 1px solid black; padding: 0 2px;">I</span> K G Q A I <span style="border: 1px solid black; padding: 0 2px;">I</span> A D F I V E H C D D S <span style="border: 1px solid black; padding: 0 2px;">I</span> G S V E V V P W E <span style="border: 1px solid black; padding: 0 2px;">I</span> M S E A I <span style="border: 1px solid black; padding: 0 2px;">I</span> S F <span style="border: 1px solid black; padding: 0 2px;">V</span> P R K A <span style="border: 1px solid black; padding: 0 2px;">I</span> K S Q V L A D F V V E W V D T Q <span style="border: 1px solid black; padding: 0 2px;">I</span> P T V <span style="border: 1px solid black; padding: 0 2px;">P</span> I Q P W	N A R <span style="border: 1px solid black; padding: 0 2px;">I</span> T H Y K S D K P <span style="border: 1px solid black; padding: 0 2px;">V</span> H D C S E <span style="border: 1px solid black; 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padding: 0 2px;">I</span> A N Y <span style="border: 1px solid black; padding: 0 2px;">I</span> L V T G E <span style="border: 1px solid black; padding: 0 2px;">I</span> P S E W N A Q D R K H F F A K <span style="border: 1px solid black; padding: 0 2px;">I</span> H A Y Y W E E P F <span style="border: 1px solid black; padding: 0 2px;">I</span> F Q R <span style="border: 1px solid black; padding: 0 2px;">V</span> T T P T Q Q A W <span style="border: 1px solid black; padding: 0 2px;">V</span> A K <span style="border: 1px solid black; padding: 0 2px;">I</span> M Q Y D Y M R W <span style="border: 1px solid black; padding: 0 2px;">I</span> L V S Q K S <span style="border: 1px solid black; padding: 0 2px;">I</span> K G S <span style="border: 1px solid black; padding: 0 2px;">I</span> V A D Y D R P <span style="border: 1px solid black; padding: 0 2px;">V</span> D D D F P D E E F <span style="border: 1px solid black; padding: 0 2px;">V</span> A M T S <span style="border: 1px solid black; padding: 0 2px;">I</span> L G W E <span style="border: 1px solid black; 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padding: 0 2px;">I</span> T H Y Q <span style="border: 1px solid black; padding: 0 2px;">V</span> L L D <span style="border: 1px solid black; padding: 0 2px;">I</span> H R <span style="border: 1px solid black; padding: 0 2px;">V</span> T F K Q T A A L N T A T <span style="border: 1px solid black; padding: 0 2px;">I</span> L P N P E D E <span style="border: 1px solid black; padding: 0 2px;">V</span> N H D A R A <span style="border: 1px solid black; padding: 0 2px;">I</span> D D
	K P M P T	D H R A <span style="border: 1px solid black; padding: 0 2px;">I</span> E Y F				
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450                    460                    470                    480

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490                    500                    510                    520

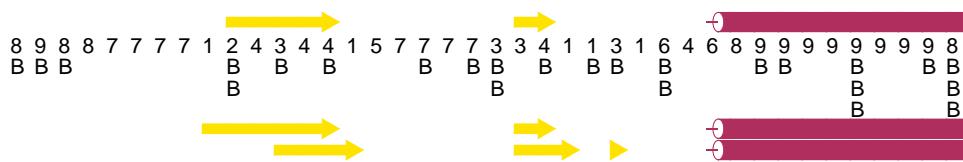
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UniRef90_J9KB96	
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UniRef90_I1BL30	
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UniRef90_X1XTW9		
UniRef90_X1XU31		
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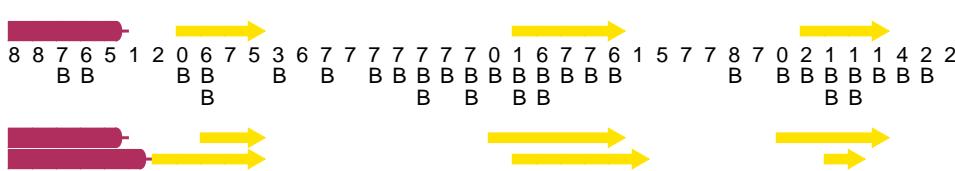
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UniRef90_I1EMP9		
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UniRef90_UP100026519B8	I N F M S G S Q L P N L P A C Y R M N P I E Y E E M K R Q M	
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UniRef90_I3KZM9		

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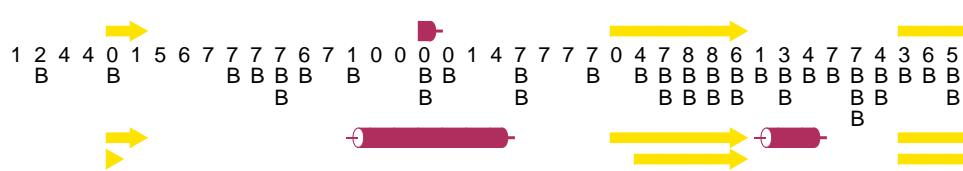
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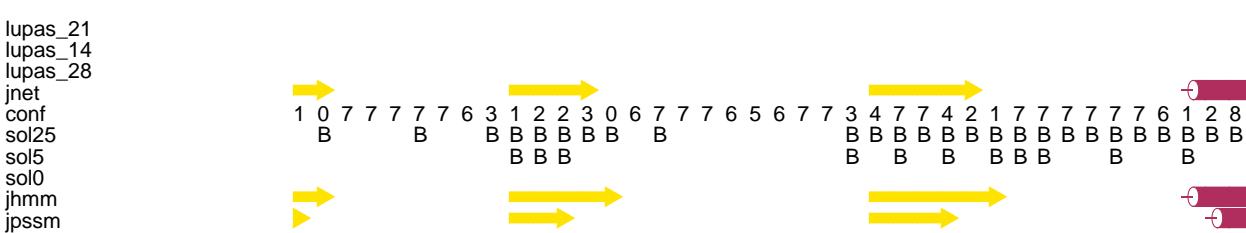


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	R L N M Q T E D A H P M P D L H D M V R G M G G A K I Y S T M D L K S G Y W Q V A I N N I M V K Y H P I L R L D D M L D E L H G S C V F T K I D L K S R Y H Q I K L N A V T K K N F P L P H I N D S L D S L H G S Q W F S T L D L K S G Y W Q V Y N P H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

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The figure displays a sequence alignment of UniRef90 entries across 10 columns. The top row shows UniRef90\_A5AT81, UniRef90\_M5CH75, UniRef90\_Q7XXG9, UniRef90\_X1WUJ1, UniRef90\_A5B004, UniRef90\_U6JNG4, UniRef90\_UPI0002657538, UniRef90\_UPI0003EA91D4, UniRef90\_I1EMP9, UniRef90\_X1XU52, UniRef90\_Q6UUHK, UniRef90\_UPI00026519B8. The bottom row shows UniRef90\_A5ASP0, UniRef90\_A5BX26, UniRef90\_I3KZM9. A central vertical bar marks position 170. Positions 180 and 190 are indicated above the sequence. The sequence starts with S F I R L I T K I F K P L V G R T V E V Y H I D D I V V K S K T R E E H V. Below this, positions 170, 180, and 190 are highlighted in yellow. The sequence continues with A F Q A M M N E V F Q D L L D I T V I I Y L D N I L V F S Q D P A E H E D H V K. The second column contains a yellow box around 'C' and a red box around 'R'. The third column contains a yellow box around 'L' and a red box around 'V'. The fourth column contains a yellow box around 'S' and a red box around 'E'. The fifth column contains a yellow box around 'V' and a red box around 'F'. The sixth column contains a yellow box around 'R' and a red box around 'G'. The seventh column contains a yellow box around 'G' and a red box around 'L'. The eighth column contains a yellow box around 'R' and a red box around 'V'. The ninth column contains a yellow box around 'V' and a red box around 'Y'. The tenth column contains a yellow box around 'V' and a red box around 'F'. The eleventh column contains a yellow box around 'Y' and a red box around 'D'. The twelfth column contains a yellow box around 'D' and a red box around 'I'. The thirteenth column contains a yellow box around 'L' and a red box around 'V'. The fourteenth column contains a yellow box around 'V' and a red box around 'Y'. The fifteen column contains a yellow box around 'S' and a red box around 'K'. The sixteen column contains a yellow box around 'K' and a red box around 'T'. The seventeen column contains a yellow box around 'T' and a red box around 'R'. The eighteen column contains a yellow box around 'E' and a red box around 'E'. The十九 column contains a yellow box around 'E' and a red box around 'H'. The twenty column contains a yellow box around 'H' and a red box around 'V'.

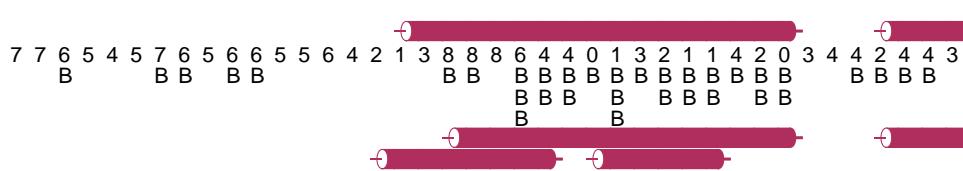
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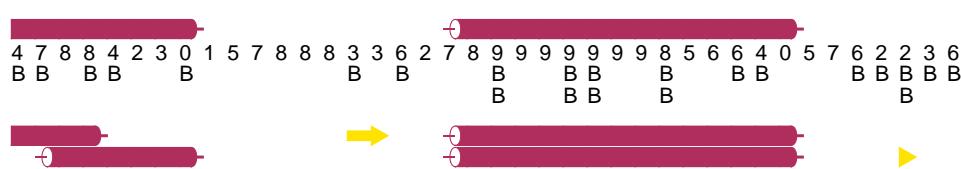
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S K V E A I N T M P S P K D K E D V Q R C L G L F T Y L A P Y I P N L S E L E V D	S K V E A I N T M P S P K D K E D V Q R C L G L F T Y L A P Y I P N L S E	N K K Q L Q C L T G K L I A L G R F I A R F T D K M	K K L L D S R Q N A P K P L T K Q Q M M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

lupas\_21  
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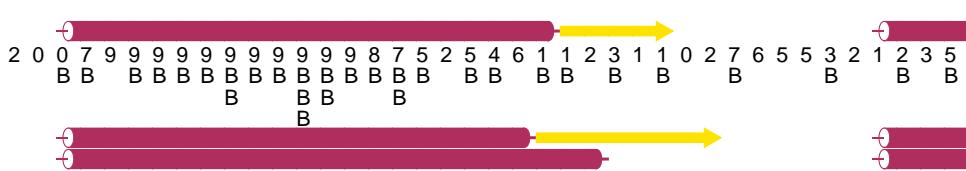


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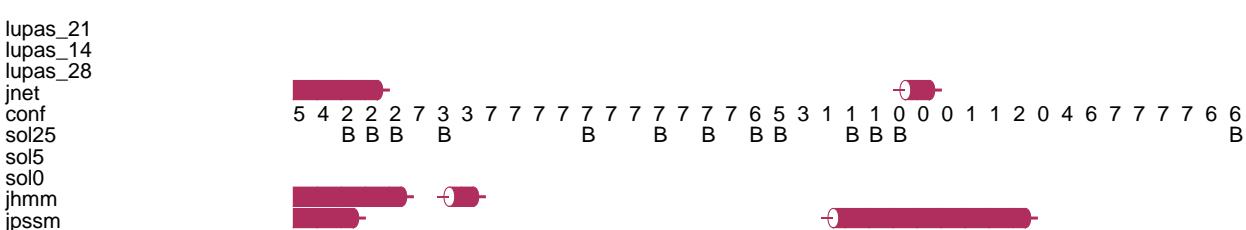
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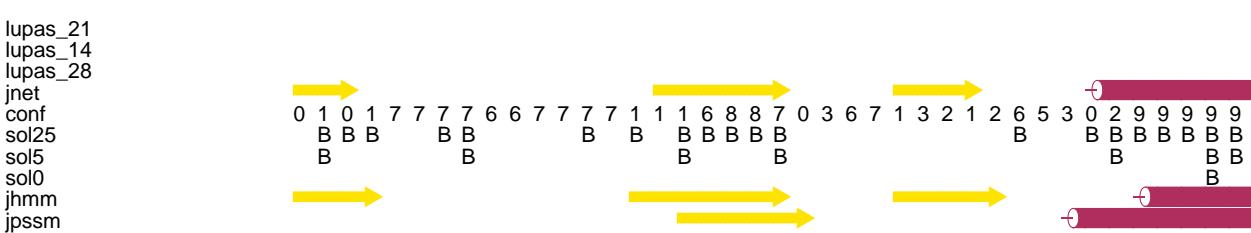
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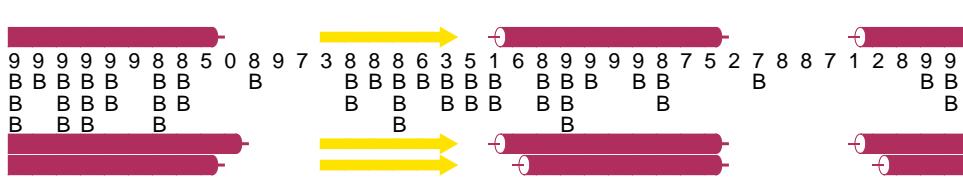
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UniRef90_A5ASP0				
UniRef90_A5BX26	S L H V D G A S R S S G S G V E	L L L K A P T G E R L E Q S	I R P A S N N E A E	
UniRef90_I3KZM9	D G S A S K N S L G R N C V G Y A V T T A D R V I E A K P L T S S H S A Q S A E			



490                    500                    510                    520

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