

QUERY	1	10	20	30	40
UniRef90_C6IVS5	G K V L	D A I I	Q E K K S G R	I P G   Y G R   L G D   L G A   D E K Y D   I A   I S S C	
UniRef90_D4LCS8	G V K E V L	K A A K R S T L	S G V   H G A   V A E   L I R   V P E   E V A   V E T A		
UniRef90_UPI0003AF37B0	G R S I K E I	L R A G K S G R I	S G V   H G S   V A Q   L V S   V K P   E Y G   V A I   E T A		
UniRef90_I3DZ81	G K V L D A L	M Q Q K S G R I	P G I   Y G R L   G D L   G A I   D E K Y D   V A I   S S S		
UniRef90_UPI00036F4523	Q G V K E V L	K A R Q S K L	Q G I   I G A V   A E L   I R   V P K   E Y E   V A I   E T A		
UniRef90_A6P2B6	G V K A I L	Q A K E R G Q L	N D V   H G A V   A Q L   I Q   V P Q   D Y V   T A M E T A		
UniRef90_W2E4I1	K A I K V V	M G E A E R G Q L	R G   H G P   V A G   L H   V P E   D M E   V A I   E T A		
UniRef90_D3BDE5	G V K E V L	L K A R Q S E S L	K G I   R G A V   A E L   V K V   P E   D M E   V A I   E T A		
UniRef90_R6V455	N T V L D R L	M R I L K E T G Q I	P G I   H G R L   G D L   G A I   D K K Y D   V A I   S T A		
UniRef90_R5E8P8	G N S I R R V	M E Q K K K R	V P G I   H G V   V A D L   K V E   K N Y E   T A I   E T A		
UniRef90_R6G301	K S V K T V	V N A Q S H G K V	C G P   V S R   V I S V   P K E Y G   V A I   E T A		
UniRef90_W7YE00	G N S I R R V	M E Q K D R Q	P G I   H G V   V A D L   K V E   K A Y E   T A V   E T A		
UniRef90_N0AYG1	G V K E V L	L K A S R K S	V L S G V   H G A V   A D L   I R   V P E   K E L   L A V   E T A		
UniRef90_Q65JQ4	Q G G V K E V L	K A K R N H S L	K G I   E G A V   A E L   I S S   P K E Y E   T A I   E I A		
UniRef90_L7WDX2	Q G G V K H I	L K A K D K S E L	P G I   R G A V   A E L   L K T D   E R Y E   T A I   E I A		
UniRef90_UPI0001E890CA	Q G G V K E I	L L K A R D E N R L	N G I   H G A V   A E I   D V P   S Q   L T Q A   E T A		
UniRef90_M1Z4A9	G G V K E I I	L L A R G K S S L	T G I   K G A V   A E I   I Q V N   D V E   T A I   E I A		
UniRef90_UPI00036DAD4F	G V R E V L	K A A K R G Q L	S G G   H G A V   A E L   I E V   P P A H   L E T A I   E T A		
UniRef90_A8FD59	Q G G V K E V L	K A K R E K R	G G I   H G A V   A E L   I Q T D   Q Q H   E T A I   E I A		
UniRef90_K0IYR2	G V K T V L	K A R E V G K L	S S G   H G A V   I E L   D I P   E R F   L I A L   E T A		
UniRef90_R5INC5	K A V R L V	M Q D A A A G K L	R G I   H G P   V S K   L I R   V E D R Y   T T A   L E T A		
UniRef90_UPI00036E464F	Q G G V R E V L	K A R D D S Q L	H G I   E G A V   A E L   L T V   P K K Y E   V A M E   I A		
UniRef90_H3SF22	G V R E V L	K A A R R N S L	Q G G   H G A V   A E L   I R   V P P E   L E T A V   E T A		
UniRef90_W7YVV6	Q G G V K E I I	K H R N Q S S	S G G   V I G A V   A E L   M K V   K E I   E K A I   E I A		
UniRef90_R5KKT8	G N S I R R V	M E Q K K K N N	P G I   I G V V A D I   I D V   D K K Y E   V A V   E T A		
UniRef90_UPI00046245DB	N R V L D T L	I R L K T A G R I	I Q G F H G R L   G S L   L G T   I E D K Y D   V A I   S T A		
UniRef90_I1G896	G R V L E A L	M E Q K M S G R I	P G I   V G R L   G D L   G S I   V D K Y D   V A I   S T A		
UniRef90_A0A023CQI3	Q G G V K E V L	L K A R A Q F P G	V H G   V E L I Q V   P D R Y E   T A I   E I A		
UniRef90_G7WEC5	R G V R E V M	M K A K K K G Q	C Q G   C G T   V A D L   I N V   E E K Y E   L A   E T A		
UniRef90_G3J4B3	G N V L A A L	M R M R E S G R I	E G F   H G R L   G N L   G T M   D E K Y D   V A V   S T A		
UniRef90_UPI0002D4F362	N G V K H I	L K M K D N N K	S G I   I R G A V   A E V   I Q   V P S N   L T K A I   E T A		
UniRef90_K0ABL3	A V K M V L	L K Q R D R R	P G I   H G A V   A E L   I P T   V P A R Y E   A G I   E T A		
UniRef90_V6T3Q8	Q G V K E V L	K A R D T R L	Q G I   E G A I   A E L   I H   V P K Q Y E   T A I   E T A		
UniRef90_R7Z4B1	G N V L T G L	M R L K E S G R I	D G F   H G R L   G N L   G A I   D Q K Y D   V A I   S T A		
UniRef90_W4VER6	G V K E V L	L K A R D R K V	T G   V H G A I   P E L   I E F   D D R F   I D A   M E T A		
UniRef90_D7GWS6	G N S I R R V	M E V R D R	V K G I   H G V V A D L   I L V   P K E Y E   I A   E T A		
UniRef90_W4PYL7	G V K E V L K A	R R G G K L	S G V   I G A V   A E L   L Q   V P K S Y E   T A I   E I A		
UniRef90_UPI000471CBFE	Q G G V R E V L	K A R N T K L	E G A V   A E L   I Q V S   V S K S Y E   K A I   E I A		
UniRef90_R7MNV3	S V K N V L	L K A S K Q G R	S G V   Y G T V   A Q N I   S V S E S Y A A A   I E A A A		
UniRef90_UPI0002193621	Q G V R N L	M K A K A K E N	F P G I   H G V L   A E L   V S A   S T H   Q T A   I E T A		
UniRef90_Q17KK7	G K V L D A L	M K Q K N E G R I	I P G I   L G R L   G N L   G G I   D S K F D   V A I   S T C		
UniRef90_F7KLF6	G G S V K R V	M E R R K S S N	S G I   I G V V A D L   I K V E K K Y E   V A I   E T A		
UniRef90_UPI000413AADC	Q G V K E I I	L K E R D R T	F Q G   E G A V   A E L   V D V K   K E H E T A   L D I A		
UniRef90_A0A010ZWY1	G V K E V L	L K A S R N H Q	E G V   A E L   I T V   P Q K   V E T A I   E T A		
UniRef90_R5JHE7	G N S I K K V	M E Q K T T N N	P G I   L G V V A D L   I S V N   R D Y E   I A   V E T A		
UniRef90_R5UTM9	G N S I R K V	M E Q K E H N	P G L   L G V V S D L   I Q V   D V D K K Y E   I A   E T A		
UniRef90_UPI000225AD2E	Q G G V K A V L	K A R E D R K L	T S I   H G A V   I E L   I D V   P K T Y   I T A   I E T V		
UniRef90_T3HWC8	N R G V K E V L	K N K N R K R	N L K G V   H G A L   G Q I   N V P E K Y E   K S   E E A A		
UniRef90_UPI000255C667	Q G G V K V V	L K N R K R	S G I   H G A V   A E L   I Q V K   K A H   S T A   I E T A		
UniRef90_U2PTB0	G N S I R R I	M E R K A D T	P G I   H G V I   A D L   I K V E K A Y E   T A I   E T A		
UniRef90_W8CB73	N K V L D F L	M R Q K N E G K V	P G I   L G R L   G D L   G A I   D S K Y D   V A I   S T A		
UniRef90_10GPN1	G K A V K A V L	K S Q E S W R	K G   V A G A V   A E L   I D V   P R D Y   V T A   I E V A		
UniRef90_D4KN00	G N S I R R V	M E Q K D R	G I   L G V V S D L   I Q V   E K K Y E   V A I   E T A		
UniRef90_I5AQE1	G N S I I R K V	M E L K D R N	P G I   H G V I   A D L   I K T D K K Y E   M A   E T A		
UniRef90_M1K0F5	Q G G V K E V L	K Q K K E	Q L G G I   R G A V   L E L   I A T E Q K Y E   T A I   E I A		
UniRef90_G9QMN5	Q G G V K E V L	L K A K N S V L	H G   E G A V   A E L   I E V P K E   L E K A I   E T A		
UniRef90_F0PBPN4	Q G G V K A V L	R H K N Q L	T G   V G A V   A E L   I E V P K E Y T   L A I   E T A		
UniRef90_R6M5P4	G K A V K R V L	K A D K S W Q	K G   C G A V   A E L   I K V E D P F   I T A   I E V A		
UniRef90_Q7ZAM6	G V K S I V L	K A R E D K K L	Q G   E G A V   I E L   M E V   P K E Y V T A M E T V		
UniRef90_R7B3F0	G G S I R R V	M E V R N C Y P G	H G   V V A D L   I S T K K Y E   T A I   I E T A		
UniRef90_UPI0002653CC4	I S A L M E Q K R	Q L G K I N G	P G R L   G D L   G A I   D K D Y D   V A I   S T A		
UniRef90_C0CHF7	G N S I R R V	M E Q K R R	V P G I   Q G V V A D L   I Q V   E K D Y E   I A   E T A		
UniRef90_H9KVF0	N K I I D N L	M R E K S E G R I	P G   F G R L   G D L   G A I   D V K Y D   I A   V E T A		
UniRef90_B7GGE7	Q G V K E V L	K A K D R	I L N G   H G A V   V E L   M T V   P S E   L E T A I   E V A		
UniRef90_B4JB18	N N V L N F L	M R M K M E G K I	G L G R L   G D L   G G I   D A K Y D   V A I   S T A		
UniRef90_R7IWD2	G N S I R R I	M E L K E R E K	G T G   V V A D L   I T A E K K Y E   V A I   E T A		
UniRef90_U4UG66	G R V L D S L	L K A K S E G N	C P G I   F G R   G D L   G A I   D N A K Y D   V A V   S T A		
UniRef90_UPI00046493F1	G N S I R R V	M E Q K S R E	C P G I   L G R L   G D L   I R V   D K R Y E   T A V   E T A		
UniRef90_I2FY48	G D V L S G L	T R Q A E L G M	T G   L G V V A D L   I Q V   D D K Y D   V A I   S T A		
UniRef90_R7BK16	G S S I R K V	M E Q K E K N K	G I   I G V V A D L   I K T K K Q Y E   T A I   E T A		
UniRef90_E0VMV1	G K V L D A L	M Q K Q K L E G K	P G I   F G R M G D L   G G I   D E K Y D   V A V   S T A		
UniRef90_R5P4R5	G N S I R K I	M E V K E Q K K	P G I   V G A V   I E L   I K V D K Q Y E   V A I   E T A		
UniRef90_R5XT35	G N S I R K A V	M R R A R E K A	G V   H G P   L S Q L   I Q V   D N E Y S T A V   E V A		
UniRef90_H1HR67	G Q S V Q R V	M G V V R D R	V R G   F G V V A D L   I S V D K R Y E   Q A I   E I A		
UniRef90_F7KQN2	G N S I R R V	M D N K D K E	P G   L G V V A D L   I K V D K D Y E   I A   V E T A		
UniRef90_T0C5V6	G V R T V M Q Q A S R N R L	S G I   H G T V A E L   V R   P K D   V E M A   V E T A			
UniRef90_A0A024QD62	G G V K A V L	L T A R E N G K L	S D   Y G A V   I E L   I E V   P K P Y   I T A   I E T V		
UniRef90_R6LJV5	G N S I R R V	M E Q K S R E	P K I   L G V V A D L   I K V D K K Y E   T A V   E I A		
UniRef90_R71764	G Q S I R R V	M E Q K E K N A	P K I   V G V V A D L   I K V E K Y E   V A M E   I A		
UniRef90_R9CC57	Q G V K E V L	K A R G K S	L H   R G A V   A E L   M H   V P K E Y S   V S L   E L A		
UniRef90_J7S7Z3	N K V L T S L	M R M Q Q S G R I	N G F   H G R L   G D L   G I   I D Q Y D   V A I   S T A		
UniRef90_M5E4M9	G D V L N S L	L V R Q A E L G	S G F   H G R L   G S L   G T L   D P R Y D   V A I   S T A		
UniRef90_U2KJR1	G G S V K A V L	R A D G G K P	P R G   V F G T V A Q L   I T T D Q K Y G V A L   E T A		
UniRef90_B4Q7F6	N K V L D F L	M R M K M E G K I	P G I   L G R L   G D L   G G I   D A K Y D   I A   I S T A		
UniRef90_UPI0004070760	G V K E V L	K A R E D K E L	S G I   D G A V   I E L   I D V   P K V D K E Y E   L A V   E T A		
UniRef90_R5XYG7	G N S I R K V	M N N R D H E	P G   L G V V A D L   I K V D V A I   E V E T A		
UniRef90_UPI00042A01F9	Q G V K E V L	K A K Q S V L	S G I   E G A V   A E L   I E V   P R D Y Q T A   V E   F O A		
UniRef90_A6CS75	Q G G V K E V L	K A R N S T L	N G V   V E G A V   A E L   I S V P K Q Y E K K A M E T A		
UniRef90_F0SUE9	R G V R E A I F	A W K N G K I K G	L G T   V L G T V A D L   V S V D K K Y E   L A I   E T A		
UniRef90_U2EZ79	R S V K K V T L	S A K E G K L R G	P G   V P A T L   L K V E R A Y A T A I   E V E V A		
UniRef90_Q5WFM8	Q G V K E I I	L K Q R G S S	L S G I   V G A A A E L   I S V P K K F E A A I   E L V		

QUERY

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UniRef90\_R5INC5  
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UniRef90\_W4PYL7  
UniRef90\_UPI000471CBFE  
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UniRef90\_R71764  
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UniRef90\_B4Q7F6  
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UniRef90\_A6CS75  
UniRef90\_F0SUE9  
UniRef90\_U2EZ79  
UniRef90\_Q5WFM8

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

QUERY	90	100	110	120
UniRef90_C6IVS5	W A K K M S K I Q T P E N T P R L F D L V K V K N E E I R Q A F Y F A L R D T L			
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UniRef90_UPI0003AF37B0	N L L H E P N L S S M E G F V A L A A E L A A C Y E C D A K Y E G I F R S L L G R I A			
UniRef90_I3DZ81	W E K S M A S I R T P E D S P R L F D M V R V N D D S V R P A F Y F A L R D T L			
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UniRef90_W2E4I1	S D F R D R A V E K E P G F V G M A D R L V R F E P A Y E K V F S N L L G R V V			
UniRef90_D3BDE5	R F I G E Q E R R S I E V F V G I G V D L V D F D D E Y R Q V F S S L L G N V I			
UniRef90_R6V455	L D K Q T E K I D T P D N T P R L F D L I K M K D N M Y A T A F Y Y A L R D T L			
UniRef90_R5E8P8	R G F S T P S A L K E P G V V G V A S E L V S T E V E Y E S I L I E Y L L G R T L			
UniRef90_R6G301	R E L R E N G L E D C Y G F V G V A A N L C S C D N K Y N G I L L Y S L L G K I V			
UniRef90_W7YE00	S S F Q N P A K L E G V I G L A D T L V T A E S T Y R T L L S Q L L G R T L			
UniRef90_N0AYG1	R H V S Q G D F E G S E G F V G I G F D L V Q Y E A K Y S S V V A S L L G N I I			
UniRef90_Q65JQ4	R N L S S S Q L Q Q H P S F I G A A S S L I R Y D T K Y Q S E I I T N L L G N V V			
UniRef90_L7WXD2	R R I Q P R D I E T A P S F I G I A S E L V S F D P A Y R S V V Q N L L G T V L			
UniRef90_UPI0001E890CA	R Y D I K S T A Q A S E G F V N I I A S D A V K V S S K Y K N I V E N L L G N T I			
UniRef90_M1Z4A9	R T L S D Y Q L S Q H E A F V G I I A A S L V V E Y D K A Y E N I V V N N L L G T I V			
UniRef90_UPI00036DAD4F	R P E E E R K L L N D R G V V G I I A S N L I R F E A R Y R S V I E N L L G N V I			
UniRef90_A8FD59	R Q L G E G D R R E T E G F V G V A S E L V K T E P R Y A N I V G S L L G N V L			
UniRef90_K0IYR2	R T I I Q H R D V Q T A E Q F I G V A S Q L V S F D E K Y Q K V I Q N L L G T V L			
UniRef90_R5INC5	K K I I Y L E K V K G H T G F V G L V A N E V A Q V D P T Y K L V V D Y L L G H T I			
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UniRef90_W7YYV6	R T M N E S D R R A A E G Y I I G I I A A D L V R S D K A Y A N V V V G S L L G N V V			
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UniRef90_11G896	D M R R I I Q T P D N V P R L F D L I K P K E P K F A P A F Y K A L R D T L			
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UniRef90_G7WEC5	K T V P A E Q L K S H P A F V G I I A S E L I H Y E N I Y H S A I A N L L G N V I			
UniRef90_G3J4B3	R M S V S R A V E T D K G Y V V G L I A V D L V H Y A D T Y R P A M E F L L G R I V			
UniRef90_UPI0002D4F362	R R N L J A P I I Q T P E N A P R L F D L V K P Q H D R F R P A F Y H A M Q D T I			
UniRef90_K0ABL3	R P S V Q T N L S S M S G Y I G V A V A S D L V T T R E E F V H L K Q N L L G T T I V			
UniRef90_V6T3Q8	K Y L A S S Q L S S G N S A Y I G T A T D L I Q F N Q K Y A E V V K S L L G N V V			
UniRef90_R7Z4B1	R D L S A I I E T P E N V P R L F D L V K S K N E R F L P A F Y S V L Q N T I			
UniRef90_W4VER6	K Q L P S N I I N N D H D Y I G I A V E L I E F D P K Y M V I M Q S L L G N V I			
UniRef90_D7GWS6	G N G F N T P A L K E P G V A I G I A A D L V H V R P E Y Q T L A R Y L L G R V L			
UniRef90_W4PYL7	K V I P D F Q L N K H S S F I I G V A V A S L L I T Y E N M Y E S I I V Y N L L G N V I			
UniRef90_UPI000471CBFE	K T V P S N Q I R S H T A F I I G V A V A S D L V D V P E T Y R S S I I G N L L G N V I			
UniRef90_R7MNV3	Y E L K E N G L E N Q E G F I I G V A V A S R L I I N A D S K F S G I I F S L L G R T A			
UniRef90_UPI0002193621	R E L Q P A Q I I Q T A Q G F V V G V A A D L V K T D S A Y R P V V Q S L L G T T I V			
UniRef90_Q17KK7	Y Q Q Y C H Q I I Q T P E N V P R L F D L I H V E D E R V L P A F Y F A L R D T L			
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UniRef90_UPI000413AADC	R R L P M S V L E Q M E G Y V G T A A E L V T Y D D R Y E N V I G Q L L G N V V			
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UniRef90_R5JHE7	R G S V R S E V L S E R G V I I G V A V A S E L V V T V D K K Y E P L A K N L L G R I I			
UniRef90_R5UTM9	R K N P K N E A A K E P G V I I G V A V A S Q L V K C E Q K Y E E V V A A Y L L G R V L			
UniRef90_UPI000225AD2E	R Y I P Q D Q I I E T H P G F V G V A A K L I I S T E S S Y Q K A I D H L M G H V V			
UniRef90_T3HWC8	U N K N K R T E I P G K H G F I I A Y A D E L V N I D E E Y K V I T Q S L L G R I L			
UniRef90_UPI000255C667	N K I S I L G N L K A N T K F I I G L A S D L I T F D E K Y R N I I E N I L L G R T I			
UniRef90_U2PTB0	K S I E H A N L Q Q I D A F I G S G S D L V T C A P Q Y Q K I I D F L L G T V I			
UniRef90_W8CB73	E H V P A E K A L G E T G V I I G I A S S L V H T Q P Q Y E K V A G Y L L G R V L			
UniRef90_10GPN1	L A N Q S G R I Q T P E N A P R L Y D L V R V E D E R V L P A F Y F A L R N T L			
UniRef90_D4KN00	R Q S Q S I R E G R D A G V I G W A N T L V R A D S C Y Q K A I D F L L A R T L			
UniRef90_I5AQE1	S G F K N Q E A L R E R G V I I G L A S T L V V K N D A R Y D G V T N Y L L G R V V			
UniRef90_M1K0F5	E N S V N A A V L K E A G V L G K A D E L V R C E E I Y R G V M R R L L G R T V			
UniRef90_G9QMN5	R Q L Q T R D E Q T H P S F I I G T A S G L V T Y D A A Y R N V I Q N L L G T V L			
UniRef90_F0PBPN4	K S I S I N D I Q S D S R F V G I I G A A E L I I R C E D K Y R D I I I S N N L L G N V V			
UniRef90_R6M5P4	R S V S A M R L I A G A P G F V G I I A S E L V V R Y P E Q V Q T V I T Q S L L G V T I			
UniRef90_Q7ZAM6	H K N K R T E I P G K H G F I I A Y A D E L V N I D E E Y K V I T Q S L L G R I L			
UniRef90_R7B3F0	R F I I W L A K I I S T Q K G F V G I I A A N L I K V V D D K Y K K V L N H M G H V V			
UniRef90_UPI0002653CC4	R Q S F G Q P A L K E M G V L G L A S E L V S A D E K Y S G L V S Y L L G R V V			
UniRef90_C0CHF7	L A K N A S K M N T P D N V P R L Y D L V R V K E E K F R L A F Y Y G L G N T I			
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UniRef90_B4JB18	K L F P P E N I I A K H P A Y V G I I A S E L I I S Y E A T Y N I M T S I L G T V I			
UniRef90_R7IWD2	F R S K S Y P I I D T P E N V P R L Y D L V Q V E D E R V K T A F Y M A L Q N T I			
UniRef90_U4UG66	K T F H N A E V F S E P G V I G L A C D L I K I D K K Y E N I G R Y L L G R I V			
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UniRef90_I2FY48	S E F L K P E I I L E E D G V I G L A H T L V E T D R Q F H D L M K N L L G R T V			
UniRef90_R7BK16	T A A A L I A P I I D T P E N V P R L F D L V R P R E A R F A A F Y H Q L R D T L			
UniRef90_E0VMV1	R D I K D N T L T S E K G A I I G F A N Q L I I E C D S E F Y E L A R Y L L G R I L			
UniRef90_R5P4R5	R E I Y S R P F R S P E N V P R L F D L I R V A D E R V K P V F Y Y A L Q D T I			
UniRef90_R5XT35	R T F F N E R V L N E R G V L G L A C D L V H K K Y E E A I A K Y L L G R I V			
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UniRef90_F7KQN2	R P F D P G A V L K E P G V L G I I A A N L V R T D E R Y R V V I E N L I G R D I			
UniRef90_T0C5V6	N V I S R Q E A L K E P G V I I G A A N T L V V K V D A R Y Q T L S D Y L L G R T I			
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UniRef90_R6LJV5	R S I P E N N I I E E H A G Y V G I I A A Q L I I D T T N H Y Q K A I N H L M G H V I			
UniRef90_R71764	G Q G F A R E A L R E P G V I I G T A D K L V T V E D K F T S L A E H L L G R T I			
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UniRef90_M5E4M9	F D M S P I I Q T P E N V P R L F D L V K P K E K R F A P A I Y S V L R D T I			
UniRef90_U2KJR1	N A R A M A R I L T T P E G V P R L F D L V V A P K D A R F A P A F Y H Q L G D T I			
UniRef90_B4Q7F6	K T L H E T G L E Q H E G F V D L A C N L V R Y E E R F S G V V Q F L L G R I I			
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UniRef90_U2EZ79	R S I L S E R G L D D W D G Y V G V A S E L V D C D D R L R P I A E N L L G R T A			
UniRef90_Q5WFM8	R V V P E S A I I A N E P G Y L G I I A A D V V E A K P E H R Q A V G F L L G S T I			

130            140            150            160

QUERY	UniRef90_C6IVS5	UniRef90_D4LCS8	UniRef90_UPI0003AF37B0	UniRef90_I3DZ81	UniRef90_UPI00036F4523	UniRef90_A6P2B6	UniRef90_W2E4I1	UniRef90_D3BDE5	UniRef90_R6V455	UniRef90_R5E8P8	UniRef90_R6G301	UniRef90_W7YE00	UniRef90_N0AYG1	UniRef90_Q65JQ4	UniRef90_L7WDX2	UniRef90_UPI0001E890CA	UniRef90_M1Z4A9	UniRef90_UPI00036DAD4F	UniRef90_A8FD59	UniRef90_K0IYR2	UniRef90_R5INC5	UniRef90_UPI00036E464F	UniRef90_H3SF22	UniRef90_W7YVV6	UniRef90_R5KKT8	UniRef90_UPI00046245DB	UniRef90_I1G896	UniRef90_A0A023CQI3	UniRef90_G7WEC5	UniRef90_G3J4B3	UniRef90_UPI0002D4F362	UniRef90_K0ABL3	UniRef90_V6T3Q8	UniRef90_R7Z4B1	UniRef90_W4VER6	UniRef90_D7GWS6	UniRef90_W4PYL7	UniRef90_UPI000471CBFE	UniRef90_R7MNV3	UniRef90_UPI0002193621	UniRef90_Q17KK7	UniRef90_F7KLF6	UniRef90_UPI000413AADC	UniRef90_A0A010ZWY1	UniRef90_R5JHE7	UniRef90_R5UTM9	UniRef90_UPI000225AD2E	UniRef90_T3HWC8	UniRef90_U2PTB0	UniRef90_W8CB73	UniRef90_I0GPN1	UniRef90_D4KN00	UniRef90_I5AQE1	UniRef90_M1K0F5	UniRef90_G9QMN5	UniRef90_F0PBPN4	UniRef90_R6M5P4	UniRef90_Q7ZAM6	UniRef90_R7B3F0	UniRef90_UPI0002653CC4	UniRef90_C0CHF7	UniRef90_H9KFV0	UniRef90_B7GGE7	UniRef90_B4JB18	UniRef90_R7IWD2	UniRef90_U4UG66	UniRef90_UPI00046493F1	UniRef90_I2FY48	UniRef90_R7BK16	UniRef90_E0VMV1	UniRef90_R5P4R5	UniRef90_R5XT35	UniRef90_H1HR67	UniRef90_F7KQN2	UniRef90_T0C5V6	UniRef90_A0A024QD62	UniRef90_R6LJV5	UniRef90_R71764	UniRef90_R9CC57	UniRef90_J7S7Z3	UniRef90_M5E4M9	UniRef90_U2KJR1	UniRef90_B4Q7F6	UniRef90_UPI0004070760	UniRef90_R5XYG7	UniRef90_UPI00042A01F9	UniRef90_A6CS75	UniRef90_F0SUE9	UniRef90_U2EZ79	UniRef90_Q5WFM8
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V A T E D L	K G A N E L A K L L G H R Y R	I V T L E G G D D V V N P G G S M T G G A V																																																																																								
I T T D L	K A A N D L A K K L G Y R	R R M V T L D G D D V V N P G G S M T G G A V																																																																																								
V A A D L	T S A N Q L A K L V N Y Q Y R	V V S P G G E D V M N P G G S M T G G A N																																																																																								
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V A Q S L	K D A N E I I A N M V M R R F	R I V T L E G G D D V V N P G G S M S G G A Q																																																																																								
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QUERY		H H H H H H
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UniRef90_UP1000288BE9A	L G A A Q H   I T E T D Q H A S K A   Q Y L R Q H Q G G R A T F   L P   K N I M K A
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UniRef90_D9S347	L G A L Q N   V V C D T E Q N A K E A   E Y L K R N N L G R V T F   L P   S S V K P
UniRef90_R2RP00	L G A A Q H   V V E T E R D A R Q G   T F L K Q Q R G G R G T F   L P   T T I Q P
UniRef90_UP10003B48229	L G G I Q N   V T E T E E D A D A K K M   S F L K E N K Y G R A T F   L P   T S I E N
UniRef90_F2U3W0	C G A L N H   V V D T D V E C A Q Q C   V E F L R K H N V G R A T F   I I L E K I Q H
UniRef90_C8NEF4	L G A T Q H   V V V T D E K A A A K A I   T Y L K T N R L G R A T F   L P   S I I K E
UniRef90_S4PX97	C G A L D N   V V D T V D T A Q A C   E F L K R H D I G R A T F   I A L D K Q Q H
UniRef90_R5CXD6	L G A M Q N   V I D T Q N D G R K A I   E M L K R L D S G R A T F   L P   D T V K G
UniRef90_M0TBP0	C P G L D Y   V V E T T A A A Q A C   E L L R R K N L G V A T F   M I L E R V E H
UniRef90_UP10002E45537	L G A L Q H   I V R E E K D A R L A   K Y L K D K K L G R A T F   L P   M N V I K K
UniRef90_C9LW80	L G S L Q N   V T E D T D T A K A A I   A F L K R A R L G R V T F   L P   S T L V V
UniRef90_A0A24JB19	C P A L D N   V V D T D V E A G Q Q C   V E Y L R K N N I G R A K F   I L L E K L P K
UniRef90_R5JHA3	L G A I Q N   V V V E D E A S A K T A   S Y L K S N N L G R V T F   L P   M N V M R S
UniRef90_R2Q820	L G A A Q H   V I V E T E K D A R Q A   T Y L K Q Q K G G R A T F   L P   T T I K P
UniRef90_UP10003623918	L G G S Q N   I V E D E A A A K R G   A F L R Q N R S G R A T F   L P   T T I K P
UniRef90_R7GCF2	L G S L Q N   V T E T E E D A D A K L   V E H L R K N N L G R A S F   L P   S S V K G
UniRef90_H3RNL3	L G G L Q H   V V V A T Q N D G K Q   I N Y L V R Q R G G R A T F   L P   D T L R G P
UniRef90_R5WGR7	L G G I Q N   V T E D E Q V A K K M   G I L K K N H Y G R A T F   L P   T T V T P
UniRef90_R5G8U3	L G A L Q N   V T E D N E T A K K M   Q F L K K N R F G R A T F   L P   T T I R R
UniRef90_R6MYA5	L G A M Q N   V V V T E D Q D A K R A   Q L L K Q R D S G R A T F   L P   S T I K G Q
UniRef90_R6QF17	L G A Q Q N   V V V T D Q T A K E M   E F L K K N R Y G R V T F   L P   S A V K Q
UniRef90_C4L5Z7	L G Q T Q H   V V V Q D E S V G R R E I   D K L R K A N A G R A T F   L P   T T I K P
UniRef90_R4XG7	C P S L N N M V V S N V D V G Q Q C   E H L R R R N N L G R A N F   I I L D K L P Q
UniRef90_W7FCF5	L G A T Q H   I I V E D E Q T A R A G   G Y L K S N R L L G R A T F   L P   T T I K P
UniRef90_H2KRH7	C S A L D H   V T D T M D T A Q A V   T F L K Q N N L G L A T F   I A L D K I K K
UniRef90_I4YID8	C G A L N N F V V D T V Q G A Q T C   A H L R E N N V G R A T F   I V L E Q L I A G
UniRef90_T0JYL4	L G G A Q H   V T D T D Q T A K Q A   T L L K T Q N L G R A T F   L P   N T I R I
UniRef90_B4N7D1	C G R L D N   I V A D V Y E T G A E A   A A L K K H N V G R A T F   I T L D K M E N
UniRef90_H8I5T0	A G S L Q N   V V D N D E D A A R C   Y Y L K E R R L G T A T F   I P L N R M R Q
UniRef90_B1BE28	L G A I S N L I T E N E N I A K N L   E Y L K N N N M G R A T F   I P L N I V K G
UniRef90_J8THM9	C P R L D D V V V D T V E C A Q H C   D Y L R K N K L G Y A R F   I L L D R L P
UniRef90_Q04GL1	L G A L Q N   V V V D S Q S T A K K A   E F L T S R R L G R V T F   L P   E V I K A
UniRef90_UP1000360A749	L A S T Q F   V T E D E K G A Q R A   A Y L K K T R K R G R A T F   L P   T S I K A
UniRef90_UP10003B71DE2	L G G V Q N   V T E D E T T A K E M   E F L K K N R Y G R A T F   L P   V T S V T G
UniRef90_T0E917	L G S M Q N   I T K D E E N S A K T A   N Y L K K N N L G R V T F   L P   N I I K S P
UniRef90_UP1000463EB98	L G G I Q N   V T D N E E T A K K M   A Y L K Q T K A G R A T F   L P   T S L N P
UniRef90_F4A9C6	L G A I S N L I T D N E E I A K E L   K Y L K Q S N L G R A T F   L P   N I V K G
UniRef90_A0A022R5I0	C A G L D Y I V V E K T A A A Q A C   E L L R K Q N L G V A T F   M I L E K Q T N
UniRef90_UP100047C089A	L G A L Q H   V V V S T Q E H G K A V L   S D L K R K D G G R V T F   C L P   D A M R A
UniRef90_Q5A4Y2	A P G L D S M V V E T V E T A Q A C   E Y L R K N K L G Y A N F   C L N K L R K
UniRef90_W7CSS8	L G A A Q H   V V I V K D D Q A A R D A   L G L K D T R A G R A T F   I P L T T M Q P
UniRef90_M5G1F7	C T S L N N L V V D T V E Q G Q A C   D Y L R K H N I G R A S I   I V L E K L P A
UniRef90_K6U9Q7	L G A L S N V   I T K D E E I A K V L   G Y L K K N N L G R A T F   L P   N I I R G G
UniRef90_G5K200	L G A S Q H   I I V Q D E A A A K G A   A F L K Q N R Q G R A T F   L P   T T I K G
UniRef90_UP100047B4F2E	L G G I Q N   V T E D E Y V A K D M   N F L K K K K F G R V T F   L P   T T V T S
UniRef90_UP10003A46953	L G G A Q H   I I V E D E A A A K R S   A Y L K Q H R Q G R A T F   L P   T T I K A
UniRef90_R4W878	A G G L A N V V V N D D G V G E E C   E Y L K A Q N A G R A T F   L P   T E M D K P
UniRef90_F8HCJ6	M G A S Q N   I I V E D E A A A K R S   I D Y L K R N R Q G R A T F   L P   T T I K P
UniRef90_C9RZR9	L G A M Q H   I V V D S E D T A Q T C   H Y L K T N G Y G R A T F   L P   D V I K A
UniRef90_A8NQS4	C G P L D Y I V V D N V D T A Q T C   V D F L R R Q N L G I A S F   V L D K Q E K
UniRef90_M4SHU7	C G A L D C   V V V D S I D T A Q K C   V E Y L K T N S V G S A T F   I A L D K Q E K
UniRef90_G4T9N3	C G F L L N N V V D T V E Q A Q Q T C   C V E Y L R S Q N I G R A S F   I A L N K L P
UniRef90_U4LMU9	C P Q L E M V V E T K D I G D Q C   V A H L R K N S N G S R A S F   M M L D S I Q K
UniRef90_F3A995	L G A Q Q N   V V V E N E N T A K K C   I R W L S E K H L G R T F   Y P L E S M H P
UniRef90_R6A161	L G G I S Y I V T D T T K A A G E   I R W L S E K H L G R T F   Y P L E S M H P

	90	100	110	120
UniRef90_S1NJP3	R K I L P E Y Q L Q T M T G F I G V A S N L V R H N D E I T A I V E N L L G T T L			
UniRef90_R2RDY6	R S H Q Y Q A I L K D E A G F L G V A S E L V S F P E N V A P V M E N L L G A I V			
UniRef90_F4PQ93	L A S N I D R F R G P Q G V E R L Y D L V K M K S P N Y S N A F Y F A L R D T L			
UniRef90_K9E8L5	R Q V Q A K L L Q E A Q T Y I G L A S D L V T Y D Q K L T Q I V H N L L G T T L			
UniRef90_UPI0004700767	R F V P K D K V N H H P D F V G T A D Q L V T V Q S A Y R N V T A N L L G A S I			
UniRef90_R9KHB5	Q E F K T P E V L Q E Q G G V I G L A D S I V R V E K A Y E N V A K T M L G R I V			
UniRef90_R6YGL7	K R V D K L I K N N L S G V I G I A A A D L V K V D K K Y E E I I L N L L G R T V			
UniRef90_UPI000464BCBB	N P I N L K A V K T K N K A I G I A S E L V S Y D I K Y K N I L V S V L G R T V			
UniRef90_UPI000288BE9A	R S I M L S K V Q G H P A Y I N T A D Q L V E V D P A F S I V V K N L L G H V I			
UniRef90_UPI000370E737	R Q P D A S S L L A K K G V L G F A S N L I V R I E E K Y R R V A E F L L G R T L			
UniRef90_R6FKC7	K T N F A P D A L E E K G V G L A S D L V E I K K Y E G V A K Y L L G R V M			
UniRef90_R5EDJ2	R N N E F S N K E N E P G G V I G L A K D L L V K V H D K Y S A G V T N H L L G R I L			
UniRef90_R6IBY0	R K A E D N Q L K K M P G V L G F A D E L I S C G E D D V E Q V F K F L L G R V L			
UniRef90_B7ANQ0	R N T L E K D A C N E K G G V V G I A S R L L V R V S F E Y E N L V N Y L L G R I L			
UniRef90_V2Y9Q9	H N P G N F G A L N E E G I I G V A A S L T E Y E T K Y A G L V N H I L G R T L			
UniRef90_R6PW14	A G I R Q N E A L Q E E G V I G L A N T L V K V E E I Y R G L A E H L L G R T V			
UniRef90_X2GIL7	R K I N P S A I Q E H P A F V Q M A D A L V T F D E D N R S I V E N L L G N V I			
UniRef90_D7EAF5	R R P Y K D L S D K K G V V G Y A I D L I D F D D K F E P A F W Y V F R D T L			
UniRef90_D9QRN7	R R Q R E E E A L E V K G A L G I A A D L I D Y D Q D K F S P V V K N L L G R I I			
UniRef90_E4KNW0	R S L A S H L Y Q T A Q R F V D I A S Q L V K T D D Q Y R A I L E S Q L G T T V			
UniRef90_UPI0002656FB5	L I Q A Q Q R Q I K T P E N V P R L I D L V Q V S D P Q Y L G V F Y Y A L R D T L			
UniRef90_D4YGJ7	R P N D L N K I Q S M P G F I G V M V D L V D F D N Q Y Q Q I M A N L M G N V I			
UniRef90_R7ATA0	K T L Y G N E R N K L P G C L G V A S E L V Q C A P E Y R G I V E N L L G R T V			
UniRef90_R9K6Q2	G A P A N Q A A L S E P G V I G G S D L V Q A G S Q F E G L K K Y L L G R T Y			
UniRef90_G5JWH4	R Q H F F S N L S S C P G F L G L A S N L I D F E P R L R S H F E N L L G V T A			
UniRef90_M3IAU5	R H L P D A T I Q N Q P A F V A L L A S D V V R F D Q K L E P I I L N A L G T T I			
UniRef90_F9XMF5	R D M S Q I Q T P E N C P R L F D L V K S K H D R F I L P A F Y S V L Q N T L			
UniRef90_C5RAC9	R R L S D Y Q L R Q S T G F V G I A S D L V T T A S A Y Q N I I A N L L G T T V			
UniRef90_P41004	K N L A R I I Q T P E N V P R L F D L L R F N D Q K F A P A F Y N V L Q N T L			
UniRef90_R6VNN0	R V N Q A Q N I L Q E P G V V G F G S S L V H A E A R F D R L V E Y L L G R F V			
UniRef90_M5J8T4	R Q L R P D Q I T T V E Q F V G I G S D L V K T K D D Y A K I M Q N L L G T T V			
UniRef90_E6LDW9	R T L P E Q Q A Q G L Q G F V G I A S E L I T Y E A E L T N V V R H L L G T V L			
UniRef90_F1KR40	R P L M A K P D H T P E N V P R L F D L L R V A D R A V L P A F Y Y A L R D T L			
UniRef90_F2KNS5	K I N L D R K V L S E K G V V D Y A V N L I N C D N K F R P V F N F V F R D T L			
UniRef90_B1I183	R K A K I I N N V T R E D G F L G I A S D L I D Y D V K F S N I I I D Y V L L G R T L			
UniRef90_UPI000289CCF9	R S I D R V R A Q A H S S F I P A D E L V A C C P D S R F R H A V I A H L L G H V M			
UniRef90_G8JTM1	F N M A K V T T P E N V P R L F D L T T P K N E I F A P A L Y S V L R D T L			
UniRef90_D4MYX3	K E F A R K E I I L L E P G V I G A A N Q L V I Y D E V Y K D L F A S L L Q G I L			
UniRef90_D9S347	R S P G E E W I L L S L P G C I G L A Y K L I E Y D K K F T P V L T Y L L G R V I			
UniRef90_R2RP00	R Q V P L N V Q G L P G F I G V A S E V R F D A R V Q N I M G N L L G G I L			
UniRef90_UPI0003B48229	P P E F K N P V L N E K G A I G M A C D I V T T D K K Y S N V A K A M L G R I V			
UniRef90_F2U3W0	L I A A Q A D K P F N A P A P R L Y D L I R V K D D K F K V A F Y H A L R D T L			
UniRef90_C8NEF4	K Q V P D T V L N Q A K K V I G I A S E L V S S D K K Y A S I I K N L L G T T L			
UniRef90_S4PX97	L N R M Q N K I S Y P E R V P R L F D L V K V K D G R V L P A F Y Y A L N E T L			
UniRef90_R5CXD6	G V M K D A P V N D P G F V G V A Y D L V H F E P K Y D G I F A S L L G R T V			
UniRef90_M0TBP0	L R R L K D K V K T P E S V P R L F D L V T V K D E K L K L A F F A A L G N T V			
UniRef90_UPI0002E45537	R F I P D N V V N Q I K N S P G F A S E G V Q F D E Q Y R N I V E H L L G S T I L			
UniRef90_C9LW80	R R S Q D E A K R E V G A I G F A N E L V G A D A K Y R K V V D F L L A R T L			
UniRef90_A0A024JB19	R N L G K I P T P E D V P R L F D L V K F K H E K F A P A F Y S V L A D T L			
UniRef90_R5JHA3	N K L K F D R T Y K T D Y I G I C S D L I Q Y S K E Y T S L V E N L L G R V V			
UniRef90_R2Q820	R Q L P A H Q V E A V D G F L G I A S E Q V T F P E K I I Q T V V H N L L G T I F			
UniRef90_UPI0003623918	R Q M A P H K I E T A P G F L G I A S D L V T Y D A K L A N I F Q N L L G V T A			
UniRef90_R7GCF2	K K L D K V K G K D N G F I G I A S D L V K Y S K K Y E Q I I L N L L G R T V			
UniRef90_H3RNL3	G Y Q P R N R L R T L P G F V G R A S E L I Q Y D P R F Q V V I D H L L S N T Y L			
UniRef90_R5WGR7	K Q E E A F R L L L S E E G V M G K M S A H V S R D A K Y D K V V E Y L L G R Y L			
UniRef90_R5G8U3	R N S T I S P V L E D E G V I G I A S T L V Q V E E R F Q A L V E S L L G R T V			
UniRef90_R6MYA5	N V L K E P G L E D C M G F V G V A S E L V C R F D T Q Y Q G V L D S S L L G R V A			
UniRef90_R6QF17	R G G F P R P E A V H E K V I G T C D C L A S Y E D R F S E L F Q S L L G R V L			
UniRef90_C4L5Z7	R F V P F D R L D S M N G F V G V A S E L V E T D A S Y E T L K K S L L G S V L			
UniRef90_R4XG77	R T E G T S R T P E N V P R L V D L V R P R S S E Y L A A F Q K V L G N T V			
UniRef90_W7FCF5	R V M P N Q R L Q Q H D G F L G I G A D L V T I E P R F Q G I L G N L L G Q V I			
UniRef90_H2KRH7	W A D K A N A V K G N V A E R L Y D L V E T V D D S I R P A L Y F A L R D T L			
UniRef90_I4YID8	K N P T K V A T P E N A P R L I D L V K P K K K E Y I P A F Y K A L G N T L			
UniRef90_T0JYL4	T K P R D A E L L S Q S G A L G F A A E V V I S T D E R Y K P V A D Y L L G R V I			
UniRef90_B4N7D1	H R R N A N R I Q T P E N V P R L F D L V Q V E D E R V K T A F Y F A L K D T L			
UniRef90_H8I5T0	R L P L R A I R E P G V I D Y A I N L V E F D S R F D P A F W Y V F G D T L			
UniRef90_B1BE28	K T I N P S K V K N I E G Y I G I A S E L I R Y D E K Y L N A M E Y T L G R T I			
UniRef90_J8THM9	R K F N L Q P I S T P E N V P R L F D V V K P K D P K F S N A F Y S V L K D T L			
UniRef90_Q04GL1	R Y L P A N Q L D Q E K F D I G I G A I L R S E K Y S N I I E N L L G T T L			
UniRef90_UPI000360A749	R K I D K K M I K S T T N Y I G I A S D L V K V D E K Y K N I I E N L L G R T I			
UniRef90_UPI0003B71DE2	R N P K S E E A L E C Q G A I G M A N E L V D C D S K F N E I C A Y L L G R V I			
UniRef90_TOE917	N K I D K K M I K S T T N Y I G I A S D L V K V D E K Y K N I I E N L L G R T I			
UniRef90_UPI000463EB98	P E L K A K A E L N E P G V L G M A D E L V E T E P K Y R P V A K A M G R I V			
UniRef90_F4A9C6	K S L S L S K V E K M D G Y I G V A S K L I K Y D I K Y I N A I E Y V L G R T L			
UniRef90_A0A022R5I0	H H R L K E K V V V T P E G V P R L F D L I N V Q D E R M K L A F Y A A I G N T I			
UniRef90_UPI00047C089A	S R L N T Q D L A G L P G Y L G L A T E H V S Y D P T Y E P L I F H L L G K V V			
UniRef90_Q5A4Y2	F N L N A P I Q T P D P S S I K R L F D L I Q P S S S K F A P A F Y S K V F N T L			
UniRef90_W7CSS8	R Q L P T Q A I E Q Q P A F V A L A S D V L T Y D S Q I N V I L N A L G T T I L			
UniRef90_M5G1F7	R N L D P I I D T P E G V P R L F D L I K P K D P K F A P A F Y K G L F N T L			
UniRef90_K6U9Q7	K R L E L D K I T T G A K G Y I G I A S D V I S Y D E E Y N N I M N Y I L L G R T I			
UniRef90_G5K200	R F I L A S Q Q L S Q L A N Y P G F A E S L V T Y N S E L T A I F Q N L L L G N T L			
UniRef90_UPI00047B4F2E	N P K I K E E V F D E K G V I G R L A S D L V E K D D R Y D E V V K F L I G R Y I			
UniRef90_UPI0003A46953	R E H H R S K L I Q A C A G F E G I A S D L V A T Y D A R L A N I F Q N L L L G V T A			
UniRef90_R4W878	R G L P S A P D D P G V V D F A Y N L V D F G G E Y E G I F S Y V L L G D T L			
UniRef90_F8HCJ6	R Q Q F A Q S L A N A P A G F I G L A S D L V T Y E D R L S N I F Q N L L L G V T A			
UniRef90_C9RZR9	R E R E A I A D I R D H P F V G I A S E L V E Y D R A Y R A A H L L G H V I			
UniRef90_A8NQS4	L R P Y M A K I S T P E N A P R L F D L I R V A D P A V L P A F Y F A L R D T L			
UniRef90_M4SHU7	W R E H V N K I L R P E N V S R L V D L I K V N D P K Y L T A F Y Y S L R N T L			
UniRef90_G4T9N3	P K Q T Y E L I E T P E G V P R L F D L I K P K D P K F Y L P A F W K G V S N T L			
UniRef90_U4LMU9	R N M N R I D T P E G A P R L F D L I K L K D P K F A P A F Y Q V L H D T L			
UniRef90_F3A995	K V I S S D V Y S T E E G F I N I A E N L V S V E S V E S N Y K N I V S H L L G L V I			
UniRef90_R6AI16	R Y N N G T E V S K E P G I C G I A S H L F S C Q P M Y Q D L L D T L L G R T L			

		130	140	150	160
UniRef90_S1NJP3	I A E D L   A S A N Q   I A K A [L] Q Y R Y R V V S   L E G D V M N A G G S M T G G A N				
UniRef90_R2RDY6	I A K D L   N C A N Q   L A R Q [L] R Y Q [V] R V V S   L D G D V M N A G G S M T G G A T				
UniRef90_F4PQ93	I A N D I   D S A T K   I A F G T K G K Y R V V T L E G G V I E Q S G A M S G G N				
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UniRef90_UP1000464BCBB	I V E N M D T A I   G F A N E T G H K F K I V V T L D G E V L N I G G S L T T G G S L				
UniRef90_UP1000288BE9A	I A K E L   E G A K A I   A N A C H Y R Y R V V T L D G D V V N A G G S M T G G S T				
UniRef90_UP1000370E737	V V D T L   D H A L A I   A N D T G R R Q R I V V T L E G E L L H P G G S I S G G A F				
UniRef90_R6FKC7	V V D T I   D N A I S I E R K Y R Y T V R I V V T L K E G E L L T P G G A M T G G A F				
UniRef90_R5EDJ2	V V D T I   D H A I A V N R K F H Q S L R V I V T L Q G D D V V N A G G S L T T G G S R				
UniRef90_R6IBY0	V A Q D M D A L E A A R R S G F R M R V V T L L E G E E Q L N P P G G S M T G G A F				
UniRef90_B7ANQ0	V V D N   D N A L A I   A R K Y K Y S L R V I V T L E G E E Q L N P P G G S M T G G A F				
UniRef90_V2Y9Q9	V A D N M D S A T R I A R K Y R Y S L R V I V T L D G E E Q L N P P G G S I S G G A F				
UniRef90_R6PW14	V V K H   D H G V A L A K K Y K Q T L R V I V T L E G E E L I V N A G G S M T G G A F				
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 G V K S V L Q E A D R I L G G I I G A V S E S E K L R F D P H Y Q T A L E I A  
 K P V R E L L K A A R D A E L T G I C G A V A D L I K V P R G M E T A I I E A A  
 R V A T A I L K A S K K G E K C G V M G R V L G D L A T I D G Q Y D V A I S T A  
 G V R A V L Q N A K Q I G G I L G A V S E H L N F D K D Y Q T A M E V A  
 G R V L D C L M K E K R E G R L P G I F G R L G D L G G I D A K Y D V A I S T C  
 K G T K T I V E N K S L F K G Y H G I V A D L I K V N P E Y V T A I I E T V  
 G V K A I L Q N A K Q I G G I L G A V S E N L S F D A K Y Q T A L E I A  
 N R M L T A L D A S K P G N A G L R G R L G D L G A I D T K Y D V A I S T A  
 G S A V R T V M S I K N D E K G V I G V V A D I I K T D P A Y E T A I E T A  
 G A V L Q S L L K L R D Q G R L P G F H G R L G D L G R I D D K Y D V A I S T A  
 K S V K A V L K A E E L K K I R I Y G T V S G L V D V K K E Y V T A I E I A  
 N R A V R G I L E A R D G R M I K G I H G T I A E L A E V D P R Y Q T A L N I A  
 G V R S I I Q A K A S L H G I E G V I S E L F I A K E N R A H A L Q A A  
 D T V K K L L F K V A D K R G I V G V V G E L I E V I E E S Y R Q A I E V A  
 N H G V Q A V M K N Q D R L A G I H G L V S E L L E C D D E Y L S A I T T A  
 Q G A K N V L Q A K K Q L S G V I G S V A E L L E L S P K F S T A I E T A  
 Q G V R A I L Q R Q Q F T G L L G A V V S E L D V P E R Y T A A V E Y A  
 Q G V R E V L K A K T E I P G I G A L V E L V T I P E H Y Q T A M E I A  
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 K S I K S I L D N P K F N G V H N V I S E L I N V E S R R Y G T A I S T A  
 G A V L T S L M D L S A A G K L D G F Y G R L G S L G S I D P M Y D V A I S T A  
 K S I K T V M N N K D K E P V K S I L G T V V A D I I K T E K E Y E T A I E I A  
 Q A V K A V L D A N L N G I L G V V S Q L F K P Q M N Y E T A I S N S  
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 R G T A N L L R H R D A L S G I Y G P V A D Y L K V N D R F V K A I I E T A  
 R G L A A V R R I K R Q Y N L E G V Y G T V A E L L E V N E R Y R T A V E T A  
 G Y G I K T V L Q S Q E P W R S D V I G V A A E L I E V Q P E Y V V A I E T A  
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 K G T K N V V E N A N L F K G Y K A L V S Q I I Q V E K Q Y A V A I E T V  
 V M R E L M A A K S R G E L S G I I Y G R L G D L G A I D T K Y D A A V S T A  
 N R T V K N L L M E H V N A G R V I N V G E L I N V V E H L S F K P E H Q T A M E I V  
 G V K A V L Q N S E R I G G I V G A V V S E H L S F K P E H Q T A M E I V  
 G V K S V L Q A S S Q L L G G I I G A V V S E H L S F K P E H Q T A M E I V  
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 G K V L D G I L D L K R R N K I A G I E G R L G D L G T I D A K Y D V A V T T A  
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 N S V K R L L K A A L S S K I E G V V A N I K V P A H L E T A V E A A  
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50            60            70            80

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UniRef90_K8DZI1	L G A   L Q N I V T E T S D Q A K A A   E Y   L   K K H N L G R A T F   F L   P L   D S L   R   P
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UniRef90_UP100047BD65A	L G G I   Q N I V T D N E D T A K K M   M   S Y   L   K Q N R A G R A T F   F L   P L   T A M E G
UniRef90_G7EA48	A P G   L D N L V C D K V E T A Q A C   E H   L   H   R T Q I G R A T F   F L   C   L   D K   L   S N G
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UniRef90_UP100035F4B81	A G R M Q A I I V D D D E V A S Q C   Q Y   L   K R N G M G R A T F   F L   P L   T K M L D
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UniRef90_UP10002492938	L G G   L Q N I V T V D E N A A K R G   I   E Y   L   N K K R L G R A T F   F L   P R   N T V   K   P
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UniRef90_K5X8N5	C G Q   L N H L V V D T V E Q A Q Q C   E Y   L   R S Q N I G R A T F   F M   V   L   E   K   I   P
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UniRef90_A0A024JD19	C P N   L D N L V V Q T V E T G Q C   V   Q Y   L   R K N N L G W A K F   I   L   D   K   L   R   D
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UniRef90_UP100036A511F	L G A A Q N I V V E D E R T A K K A   I   Q   F   L   K E G R H G R A T F   F L   P   P   L   T T I   K   E
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UniRef90_R7K6P7	L G A   L Q N V V T R N E D D A K A A   I   F   L   K   D   N   R   Y   G   R   I   T   F   F   L   P   P   V   T   S   V   K   R
UniRef90_G3IAU0	C H A   L D Y I V V D S I D T A Q E C   V   Q   Y   L   K   R   H   N   I   G   V   A   T   F   F   I   G   L   D   K   M   A   V
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UniRef90_R5SXU3	G G R M A   H V V V D D E H V A S T C   E   L   L   K   S   S   N   A   G   R   A   T   F   F   I   P   P   I   N   K   I   V
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UniRef90_R7FX02	F G S   L Q N I I V V D D E D C A K V   A   A   F   L   K   R   R   R   N   A   G   R   A   T   F   F   I   P   P   I   T   T   M   K   G
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UniRef90_F6DT07	L G A   L Q N V V T E T S N Q A K E A   A   F   L   K   K   K   R   Q   L   G R V   T   F   F   I   P   P   I   D   S   L   R   P
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UniRef90_J5TJ75	G G S   L F H V V V D T D E T A A T L   K   I   M   N   Q   D   K   S   G   R   V   T   F   F   I   P   P   I   N   R   L   K   S
UniRef90_UP100036A46A5	A G A   L G H I V V E D D L   V   A   T   A   E   E   L   L   K   Q   K   R   A   G   R   A   T   F   F   I   P   P   I   N   K   I   H   P
UniRef90_U9VLQ3	A G A   L G Y   L V V D N D G V A A R G   D   I   L   K   R   K   R   A   G   R   A   T   F   F   I   P   P   I   N   A   I   R   P
UniRef90_D3EQ04	A G S   L G H   V V V E D D A I A   I   S   G   I   N   M   L   K   K   K   A   K   A   G   R   A   T   F   F   I   P   P   I   T   K   I   R   S
UniRef90_F8AFS8	L G R   A D H V V V D D E K V A E E A   K   F   L   K   A   N   R   L   G   R   E   L   F   F   I   P   P   I   N   K   I   R   P
UniRef90_F5RM58	L G A   V R   N L V V T E D T D T A K A A   S   Y   L   K   R   K   N   G   G   R   V   T   F   F   I   P   P   I   T   T   I   A   V   P
UniRef90_F6BDA4	A G R   L N F   I V I K   R   M   E   D   G   A   R   A   E   Y   L   K   K   K   N   L   G   R   A   T   F   F   I   P   P   I   D   R   I   E   G
UniRef90_UP10003B3FF64	L Q   A   I Y H   I V T K   D   E   A   S   A   R   E   A   G   Y   L   K   R   N   R   S   G   R   A   T   F   F   I   P   P   I   D   I   M   R   P
UniRef90_K9VZW5	A G A   L G N   L V V E D D G V A A A A   E   I   L   K   Q   R   K   A   G   R   A   T   F   F   I   P   P   I   N   K   I   Q   P
UniRef90_UP100047176A3	L S   S   Q   H V V V D D N S E S A V   K   A   I   N   F   L   K   S   N   K   G   G   R   V   T   F   F   I   P   P   I   I   N   S   I   K   I
UniRef90_UP10003091E3C	L G A A Q N   I I M V S E Q D A K   K   A   S   Y   L   K   E   K   K   S   G   F   A   T   F   F   I   P   P   I   D   T   I   R   E   N   G
UniRef90_UP1000418195C	L G A S Q N   I V M D V E H N A R T   A   A   F   L   K   Q   K   N   F   G   F   A   T   F   F   I   P   P   I   D   M   I   T   A   G
UniRef90_UP100044174BD	C P S   L N N L V V V I N T V I E E A Q S C   E   H   L   R   R   Q   N   A   G   R   A   T   F   F   I   P   P   I   I   L   S   R   L   P
UniRef90_L0PBL6	C P S   L N L H V V V I N T V I E E V G Q Q C   E   Y   L   T   T   N   L   G   R   A   V   F   I   P   P   I   P   R   P   N   I   K   V
UniRef90_H3NGQ7	L G A   L Q Q   I V V R   D D Q A A K   K   A   D   Y   L   R   Q   T   R   S   G   R   A   T   F   F   I   P   P   I   P   D   V   I   R   P
UniRef90_Q0AYV7	A G G   L Q N   I V V A S E K E V R   E   A   D   Y   L   K   V   Q   E   L   G   R   A   T   F   F   I   P   P   I   P   D   V   I   K   V
UniRef90_A9UYC9	C G A   L N N M V V D T A R E A K L C   Y   F   E   F   L   R   K   H   N   V   G   R   A   S   F   M   I   L   E   K   I   A   M
UniRef90_A6UQ42	G G R   L N Y   I V V K   R   M   D   D   G   A   R   A   Q   Y   L   K   R   K   N   L   G   R   T   F   F   I   P   P   I   P   D   R   I   N   G
UniRef90_K2C5E0	L G G   I Q D   I V T   R   D   A   E   T   A   K   S   A   A   I   L   P   L   K   Q   N   K   A   G   R   A   T   F   F   I   P   P   I   D   M   I   T   A   G
UniRef90_F8AND7	G G G   L N H   V V V K   R   M   D   D   G   A   R   A   E   Y   L   K   R   N   K   L   G   R   A   T   F   F   I   P   P   I   P   D   R   I   K   G
UniRef90_A9U123	G N S   L F H V V V D N D E I S T R   I   R   Y   L   T   S   E   K   G   G   R   V   T   F   F   I   P   P   I   P   D   V   I   R   Y   R
UniRef90_K9UXJ7	A G A   M G   N   L V V E D D G V A S   R   A   E   I   L   K   Q   R   G   G   R   A   T   F   F   I   P   P   I   P   D   M   I   T   A   P
UniRef90_K9YNN0	G G R   L G F   V V V E D D S   V A A A G   I   K   L   K   E   K   K   A   G   R   A   T   F   F   I   P   P   I   P   D   M   I   T   A   P
UniRef90_M0MM32	A G G   L A H V V V D D D G V G E   R   A   E   Y   L   K   S   R   N   A   G   R   A   T   F   F   I   P   P   I   P   D   V   I   T   E   M   Q   Q

90                    100                    110                    120

UniRef90_H2Z796	D T I I E Y S I V P D T S L P R L V D L I Q A K E P R F H V A F Y H A L R D T L		
UniRef90_R6PB61	K T I N N K D I L K N T G V I G I A K E L I S Y D V Q Y E N I M S S L L E R V I		
UniRef90_Q3D9I2	R Q H Y L S K L Q S S Q G F L G I A S E L V T Y D Q R L S N I F K N N L G L T A		
UniRef90_A5DFY3	R N F N L D P I S V P P N S K R L F D M I T P Q D Q K F A P A F Y S K L Y N T L		
UniRef90_W6S3K4	K V I D N N N V K N T K G Y V G I A S E L V E V N E K L K K A V D F S L G R T I		
UniRef90_F216B2	R R I S D Q Q V Q A D P A Y I G L L V D L V D F D D Q F Q T V M E N V M G N I I		
UniRef90_B9DRH2	R F N Q L H Q V Q Q Y Q G F L G T A E S L V S Y D H R F K T I F Q N L L N T T L		
UniRef90_T1Z4T8	R H L P D H H I E K S T G F L G L A S S L V R Y D M S L E H I F Q N L L G T T A		
UniRef90_K8DZI1	T P L W E K K A L G L P G V I G L A S D L T E A A A R Y R S V V E L L L G R L V		
UniRef90_B8CCA2	K G A H D R T V E T P E G A P R L F D L I T P A N F H I T P A L F L A V G N T L		
UniRef90_A0A034SJ06	R Y N F Q K Q L E T S P G F I G T A Q S L V S Y D H R F K T I F Q N L L N V T A		
UniRef90_G6DFN1	L I K Y C E N R T T P V P R L F D L V R V K D S R V L P A F Y Y A L R D T L		
UniRef90_D5E4P4	R D D H M L V I Q T Q P G Y I G I A S E L V D I E P K F E I L N K F L L G N I I		
UniRef90_UPI0003465AE4	R E H H R Q T I L Q S S Q G F L G V A S E L V R F D Q D F E T I Y K N L L G T T A		
UniRef90_F0WMJ9	L H H P F Q G P R N S T K A P R L Y D L V R I Q D E K Y R V A F Y F A L R D T L		
UniRef90_UPI00047BD65A	K G L T N R D V L C E K G V I G T A D T L V N V D D R Y K G V A V N L L G R V V		
UniRef90_G7EA48	K D M S P P A A L S S M P A G R L Y D L I T P S N A R F A P A F F Q V L G N T L		
UniRef90_R6MKT6	R E D N V G E I S K Q K G F I G L G S K L I K Y N S K Y D G I I K S L L G R V V		
UniRef90_UPI00035F4B81	G R P R G K A I M A A K D A V G F A I D L V K F D E R Y R A A F W Y V L G D T V		
UniRef90_R5ZIK7	K Q Q Q E M L A S S C P G F I G L A S D C D C E E K Y L D V R D R L L G N V V		
UniRef90_Q8R9W7	K K L E G E A A L T E E G V M G I A S S L V K Y A P S L E R V F N F L L G R T L		
UniRef90_UPI000377F5FE	R T L L Q Q E I A K Q S A G I L G V A S D F V R C L D V Y E P L K M R L L G S I L		
UniRef90_UPI0002492938	R H I A A A D K L A N I V G V F G V V A S Q L V K M G P D D Q N V L N Y L L G T T V		
UniRef90_UPI00037DFD85	R Q V D R Q N L Q S L T G F L G I G S E L V K I D D R A T N L E Y L L G T T I I		
UniRef90_D7UVJ4	R E L L P A K Q L E A N P A F E A V A S Q I V T H D P S L A P V I Q N A L G T T I I		
UniRef90_K5X8N5	A E N G M K K I Q T P E N A P R L F D L I K S K E A R F A P A F Y K A L R D T L		
UniRef90_R6LW89	K Y I D D N E V L S S L E Y I P G Y I S S L V T F D N K Y K N I I D N V L G N I I		
UniRef90_A0A024JD19	Y E E A M H S P R D H P P V P R L F D L I K V K D Q R L L P A F Y S V L G D T V		
UniRef90_UPI00030EB534	R S A K E Q E V L K D K S V I N T A D L L V N T N P E Y E R V I K F L L G R I L		
UniRef90_U5F8Q2	R Y M H R M L A E N C E G F L G I A S E F V E N E E R F N T L R D A L E F G N V I		
UniRef90_G2KTJ8	R F F I V L I Q K V V R Q I I D G F I G I A S D L V Q I I D D K Y K Q V K Q H L L G G I I		
UniRef90_W1PTT0	H L P M L K K A Q T P E G V P R L F D L I R A K D D R M K L A F F A A L R N T V		
UniRef90_UPI0003812331	R Q I H Q S Q L E T S A G F L G T A E Q L V S Y E E H L A P I F Q N L L G A T A		
UniRef90_X0QDN4	R R L N T A L V T A A K Q V P G I A S E L I I T M P T E F R E I I K Q F L L G T T V		
UniRef90_C1GNQ8	R P A N V P R A S D T I P M I E K L V Y D S E Y E K A F Q Q V F G K T I		
UniRef90_R6J4I3	R R S E E E A L A K L P G I I R G F A A D L I G Y D I K L A P I F K F L L G R V L		
UniRef90_L0FAY3	Q T N V A K E V A N D P G F I G L A V N L I T F Q E K R K A F E S Q L G R I L V		
UniRef90_P73340	P K G Q N P N L S Y A H G Y I D L A V N L I D G D R R Y A D I F A F I F G N T I		
UniRef90_UPI00040A5A6D	K S V H E Q H I Q T Q K G F L G V A S E L V T A E K Q Y D V L R K F L L G N I L		
UniRef90_D8TXU8	L E R P A E R I E T P E G C P R L F D L I K I K D P K L R R A F F Y A C G N T L		
UniRef90_R6G501	R R I I P N N V K N Y E G Y G I A S D L I S F G D Y K D I D Y S L G R T L		
UniRef90_UPI00036A511F	R Y L F K D K L L Q Q A G F L G L A K D L V S Y D S R L N N I I M G N L L G M T A		
UniRef90_E8JPI8	R H L S Q Q N L T S S Q G F L G V A S G L V S Y D K R L E N I F Q N L L G V T A		
UniRef90_B7CD38	R K M N E Q V I S T S P G F I G F A S E C V D C K E I F D P V K E R L L G N V I		
UniRef90_R6THE5	E E M R E R G V E Q A E G F V G L A S R L V R F D P K Y Q N I F Y N L L G R T V		
UniRef90_E9C034	L N N A I A S I P T P E G A P R L F E L V K P R D K K L I P A F Y H A M R D T L		
UniRef90_S8AZ47	K P M N M P R A S D T I P M L D K I Q F D P A Y E R A F Q H V F G K T I		
UniRef90_A7RFF3	K P V N E Q L R Q I G G N T K L I D V I R Y S P A V V K K A L Q Y A C G N A L		
UniRef90_R7K6P7	R R L D N D G I L K E K G C L G V A D T L V D F D K K Y S N V V S G L L G S T V		
UniRef90_G3IAU0	W A K K M T K I Q T P E N T P R L F D L V K V N N E E I R Q A F Y F A L R D T L		
UniRef90_N0BKP2	N F K L D R S V L K E K G V I D Y A I N L I K C E K K F K P V F N F V Y R D T L		
UniRef90_W0K0Z4	R S L P S A P G M P G V V D F A Y N L V D F D S Q Y A A V F S Y V L G D T L		
UniRef90_W1PPC1	P H V T I P K S S E V I P L L D R M K Y S D R F K P A F K Q V F G R T V		
UniRef90_A0ZKA9	K F T Q D A T L R Y A N G F V D Y A V N L V E C Y C E P R Y K K I F G Y V F G N T V		
UniRef90_A0A037Z7M3	K K I F I N E I K S I P G Y I G I G S E L I I S Y D T K F S N A I E Y V L G R T I		
UniRef90_C2KW19	R D E K Y D S L K K E A G V I G V F A D L I K V P D S S K G L E N Y L L S R V L		
UniRef90_U1PE27	R S L P T A P A R E G V V D F A Y N L V E F D R E Y A G V F S Y V L G D T L		
UniRef90_K8Z874	R Q F P Y E K I A L M D G F I G L A S E L L Q F A P E Y E V L S A Y L V G Q I V		
UniRef90_D6GTV4	K Y P H S A A K H E T F A N Q V V R V N P K Y Q T V I D S L L G R T I		
UniRef90_Q46EX0	P R R I L E N L S Y E N G V I G Y A I D L I Q F D S G F E P A F W Y V F Q D T L		
UniRef90_R5SXU3	C P R S L N L P K E K G V I D F A I N L V D F D D E Y I D A F Y Y A V G E T L		
UniRef90_UPI0002F8BD40	P H F Q E I L S R Q A R G F V N Y A I E E L V Y C E P R Y K K I F G Y V F G N T V		
UniRef90_R5DL78	K A P T R L Q L P R D K G V I D F A I N L V D F D D E Y I D A F Y Y A V G D T I		
UniRef90_R7FX02	N P V K A L G I D G Y I A I A S E L L V G C D A K F R G I A D Y L T G R I I		
UniRef90_E8LDF8	R G P N E E A L A K L P G I I G Y A V D L I G F K P E A E N A V R F L L G R V L		
UniRef90_F6D707	A P P W E K R A L D L P G I V G L A A K L V E V E P R Y R S V V E L L G R L V		
UniRef90_V6Z4I9	R A L K S H L L Q T Q E G F L G V A S E L V R F E P D L S R I I M E N L L G L T V		
UniRef90_U5QM36	Q R Y Y E S P R E E G A L G Y A I D L I V E F D R R Y E A A F S Q V F G D T V		
UniRef90_J5TJ75	S N V Q Y P K S N D A V P M I Q K L R F D R M Y T M A F E Q V F G R T I		
UniRef90_UPI00036A46A5	I K T Q D V T L R Y V N G F I D Y A V N L V D C D R R Y R D V F N Y V F G N T V		
UniRef90_U9VLQ3	R H Q K L G R W E R P D G F I D Y A V D L I E C D D I Y R D V F A F V F G N T A		
UniRef90_D3EQ04	Y K Q N N N F Y L K N A P G F I G L A V D L V E C C N S K Y A K V F S Y I F G N T A		
UniRef90_F8AFS8	R S V E A E V G V R A D L V E Y D P R F E P A V K F A L G D T V		
UniRef90_R5RM58	R Q P R A I D L G R Y R G V V G W A N T L V Q A D G K F Q K V A D H L L A Q T L		
UniRef90_F6BDA4	R E A D Y V Y E D G V V G R A I D L V E F D E K Y R N V F N Y V F G N T I		
UniRef90_UPI0003B3FF64	R Y P S K E Q A S Q S K G Y L G W A N E S V E C K E I F N D L R D R L L G N V L		
UniRef90_K9VZW5	R F S E T A A L R Y A N G F I N Y A V N L V E C E P R Y R N I F A Y V F G S T V		
UniRef90_UPI00047176A3	R D D Y L M V I R N Q A G F I G L G I A N E L V T T N K E Y E I L N K F L L G N I V		
UniRef90_UPI0003091E3C	R S D I R R Q V E N S H I E A Q V L A D I V A V A D H D I S D V V H H L L G T T I		
UniRef90_UPI000418195C	R H D V E K S L E A S N I D Y E V L S E V A D I K R E Y R K V I L H L L N T T V		
UniRef90_UPI00044174BD	R G M D K I S T P E N V P R L F D L I T P K E R Q F A P A F Y K A V G N T L R H T L		
UniRef90_L0PBL6	K S M E R L I S T P E N V P R L F D L I T P K E K K F A P A F F N A L R H T L		
UniRef90_H3NGQ7	R S L A S H K A Q G Q A G L I G V A S D L V Q A A T E N Q A I V K Q L L G T T I		
UniRef90_Q0AYV7	K P L P V E K I L V Q D G V L G L A S R L V H Y D K K F A K A V E Y L L G R V L		
UniRef90_A9UYC9	A D R A A A A F T A P S G T Q R L F D L V Q P R D Q H F V A F Y W A L R D T L		
UniRef90_A6UQ42	P D A M Y L N E E G V I G R A I D L V E F N P E Y E C V F K Y V F G N T L		
UniRef90_K2C5E0	S R V S Y P T G P D V V P L L K K I K Y D L R F G P A F A Q V F G G T V		
UniRef90_F8AND7	Q P L K E N A L R A T Q G F I D Y A V N L V D F D R E Y E N I F N Y V F G G T I		
UniRef90_A9U123	R L H Q L G G I Q Y A Q G Y I D L A V N L V T C E D D K Y R P I F A Y V F G N T M		
UniRef90_K9UX7	R S L P R L P D R D G V V D F A A N L V D Y P K E Y A G V F S Y V L G S T L		
UniRef90_K9YNN0			
UniRef90_M0MM32			

130                  140                  150                  160

UniRef90_H2Z796	V A D D L A [■] A T K V A Y D R K R R W R V V T L [■] Q G E L I D T A G T M S G G N
UniRef90_R6PB61	I V D T I D N G [■] A L S K K T N Y S Y K V V T L D G E L F N V G G S M T G G S [■]
UniRef90_Q3D9I2	I F D T V D N A N V A A R Q [■] N Y Q V R L V T L D G T E L R P G G S Y S G G A N
UniRef90_A5DFY3	V T S T L S E A K Q V A G A K R W K V V T L D G K V V D T S G T M S G G G T
UniRef90_W6S3K4	I A E T L D T A [■] N I A K L T G Y S I R I V T L Q G E V V N A G G S L T G G A T
UniRef90_F216B2	L A E D L T G A R R L S Q A L H A R Y R V V T L T G D L V N A G G S L T G G A N
UniRef90_B9DRH2	I F D T V D H A N L A A K A L Q V R Y K V R I I T L D G T E L R P G G S F S G G S N
UniRef90_T1Z4T8	I F D T V E N A R A A A R K V R Y Q V R I I V T L D G T E L R T G G S Y A G G A H
UniRef90_K8DZI1	V V D K L D N A V K A A K Q L Q Q R I I V T L T G E E L L H P G G S L T G G G
UniRef90_B8CCA2	V A P D L E T A T R W A Y E F G K R W R V V S M D G K L I E T S G T M S G G G Q
UniRef90_A0A034SJ06	I F D T I D H A N S A A K K L N Y K V R I I V T L D G T E L R P G G S F S G G G A N
UniRef90_G6DFN1	V A S S L E Q A T K I A Y G N I R Y V V T L L Q G D V I E R V G G I I V G G S K
UniRef90_D5E4P4	V V I E D L E T A N K V A N I L D K K Y M V V T K D G D V V I R V G G I I V G G S K
UniRef90_UP10003465AE4	V F D T T E N A Q R A A R A V R Y Q V R I I V T L D G T E L R P G G S Y A G G A N
UniRef90_F0WMJ9	V A S D L D Q A T P [■] A Y Q K Q C Y R V V T L L D G Q M V E L S G A M S G G G N
UniRef90_UP100047BD65A	V V D N V D N A T A A A R K Y H Y S V R M V T L E G E L L T P G G A I S G G A F
UniRef90_G7EA48	V A G N L A E A K L V A F G K Q R F R V V T R D G N I I D T S G T M S G G G N
UniRef90_R6MKT6	V V D N V D N A I A M S R Y F G Y K F R V V T L E G E I I L N A G G S M S G G S V
UniRef90_UP100035F4B81	V V D T L L D Q A R K L M G G V R L V T A G G E L L E A S G A M V G G
UniRef90_R5ZIK7	V M D N L E H A N E C A K R L S Y R V K I V T L D G E I I V H A G G S M T G G R G
UniRef90_Q8R9W7	V V D T I E T A [■] H A R K Y D Q A F R I V T L D G E I I N I G G A I T G G S L
UniRef90_UP1000377F5FE	V A R D L E C A N D A A R K L K Q S V K I V T L L G G D V V H A G G A M T G G S M
UniRef90_UP10002492938	I V I S N L E V A L Q A V K V S N H A A R I I V T L K G E V I I N A G G S M S G G T G
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UniRef90_UP1000347358D	Q   G   V   R   A   V   L   Q   Q   R   E   R   F   P   G   L   V   G   P   V   A   D   V   I   E   V   P   E   Q   Y   T   V   A   I   E   T   A
UniRef90_U2D971	N   T   V   L   C   K   L   M   N   L   R   K   Q   G   L   K   G   F   H   R   G   L   G   D   L   G   E   I   D   S   K   Y   D   I   A   I   S   T   A
UniRef90_K9IEE2	K   I   I   L   Q   S   G   I   C   G   L   V   A   Q   L   G   R   V   D   P   T   Y   Q   L   A   L   E   I   A
UniRef90_F2QRV0	E   T   V   M   K   Y   F   S   A   N   K   K   S   G   V   H   G   R   L   G   D   L   G   Q   V   D   D   K   F   Q   L   A   L   A   S   S
UniRef90_M1X499	M   P   G   L   C   G   L   V   A   Q   L   G   R   V   D   S   R   Y   Q   L   A   L   E   T   A
UniRef90_Q5CNS5	G   V   K   Q   V   L   N   Q   P   D   R   F   P   G   I   G   A   V   G   E   L   T   F   P   A   D   L   E   A   A   M   T   T   A
UniRef90_K9S7V7	N   K   S   V   K   L   L   M   E   H   M   S   K   G   S   I   S   N   L   S   D   K   L   G   E   I   S   V   P   K   N   L   E   T   S   I   E   I   A
UniRef90_Q049R2	F   P   G   V   R   G   R   L   V   D   L   C   K   P   Q   R   K   Y   E   T   A   I   S   V   V
UniRef90_U2N5X7	Q   L   V   M   Q   S   G   L   S   G   V   C   G   L   V   A   Q   L   G   R   V   E   P   H   Y   Q   M   A   L   E   T   A
UniRef90_UP1000440B973	R   L   I   L   L   A   A   Q   L   P   G   V   Y   G   M   V   A   Q   L   G   R   V   E   P   Q   Y   Q   L   A   L   E   I   A
UniRef90_UP1000476543C	E   I   M   E   S   I   K   R   L   Y   P   G   S   V   Y   G   R   L   I   D   C   Q   P   Q   O   K   K   Y   Q   I   A   V   T   K   V
UniRef90_B8HST0	Q   I   V   L   E   A   N   I   S   G   V   Y   G   L   V   A   T   L   G   K   V   I   E   P   K   Y   Q   L   A   L   E   I   A
UniRef90_F6UJH6	G   V   K   N   I   I   N   N   K   T   V   L   P   G   I   M   G   L   V   Q   D   I   I   N   V   D   E   K   Y   E   Q   A   I   V   T   A
UniRef90_UP10003478677	G   V   Q   A   V   M   M   N   K   A   S   L   F   G   V   L   D   A   V   G   N   V   F   T   P   E   S   G   L   E   L   A   I   T   T   A
UniRef90_A0A037UJH0	G   K   S   Q   D   L   F   K   L   C   D   R   E   E   L   K   S   I   C   G   T   L   G   E   I   S   V   E   E   K   Y   K   K   A   I   D   T   V
UniRef90_F5WTA0	G   Q   G   L   R   A   V   D   S   I   A   E   R   Y   N   L   T   G   V   Y   G   P   L   Y   R   L   F   E   V   D   P   K   F   N   I   A   V   E   T   A
UniRef90_A8SMU2	R   G   L   N   C   V   S   R   I   I   K   D   H   D   M   T   G   V   F   G   P   V   L   E   L   V   D   C   E   E   K   F   F   T   A   V   E   T   A
UniRef90_D6RP77	V   L   G   E   I   F   T   V   N   K   D   Y   E   T   A   I   E   I   A
UniRef90_C5YWM6	N   K   S   V   K   N   L   M   I   H   I   K   K   G   Y   I   K   C   V   I   G   D   S   I   N   V   E   K   R   L   E   I   A   I   E   I   A
UniRef90_V9H339	N   L   G   V   R   A   L   L   M   K   Q   N   L   S   G   I   R   G   V   T   A   E   L   M   D   V   P   K   G   Y   E   L   A   I   E   T   A
UniRef90_W0DED8	G   T   R   A   V   L   D   A   T   R   G   G   K   L   T   G   I   V   G   L   L   S   S   L   I   T   V   P   A   E   L   E   R   A   V   E   A   A
UniRef90_L7EMH9	G   R   A   V   T   T   I   L   N   A   G   I   N   G   V   H   G   A   V   A   Q   L   G   N   V   A   G   E   Y   A   V   A   C   E   T   A
UniRef90_X8K519	K   E   T   L   S   A   L   K   R   T   F   P   G   I   K   G   R   V   I   D   L   C   K   P   Q   R   K   Y   S   L   A   V   T   T   I
UniRef90_L4ENJ0	K   G   T   K   T   I   I   E   N   K   A   Y   F   G   K   P   L   K   G   T   V   A   D   L   I   K   V   E   P   E   Y   I   R   A   I   D   A   V
UniRef90_L9VML0	G   S   G   L   R   A   V   D   R   I   A   E   Q   L   G   L   E   G   V   Y   G   P   L   Y   R   L   F   E   V   D   P   K   F   N   I   A   V   E   T   A
UniRef90_U5H272	Q   E   L   L   E   N   N   L   K   R   L   Y   S   G   V   Y   G   R   L   F   D   C   E   P   R   R   Y   R   I   A   L   T   K   I
UniRef90_N9VBZ0	N   K   S   V   K   N   L   M   I   H   I   K   K   G   Y   I   K   C   V   I   G   D   S   I   N   V   E   K   R   L   E   I   A   I   E   I   A
UniRef90_X8JGT9	N   L   G   V   R   A   L   M   K   Q   N   L   S   G   I   R   G   V   T   A   E   L   M   D   V   P   K   G   Y   E   L   A   I   E   T   A
UniRef90_11FQ05	Q   E   L   L   E   N   N   L   K   R   L   Y   S   G   V   Y   G   R   L   F   D   C   E   P   R   R   Y   R   I   A   L   T   K   I
UniRef90_E4L804	R   G   L   A   T   V   R   R   L   K   R   E   Q   N   I   R   G   A   Y   G   T   L   A   E   L   I   E   V   P   E   A   Y   R   I   A   A   E   Q   A
UniRef90_N1JND9	G   V   R   N   I   I   N   N   K   N   V   L   P   G   I   I   G   L   V   Q   E   L   I   T   V   D   A   Q   Y   E   Q   A   I   G   I   A
UniRef90_W0GMF1	G   V   K   N   V   L   N   N   K   H   I   L   P   G   V   G   I   T   Q   D   I   S   V   E   K   E   H   E   Q   A   I   G   A   L
UniRef90_W6AA39	M   V   K   A   L   L   D   A   Q   A   A   G   A   K   G   V   L   G   R   L   G   D   L   G   A   I   D   K   K   Y   D   I   A   V   S   T   A
UniRef90_Q017K9	N   R   V   L   T   A   L   S   T   A   A   Q   E   G   E   L   K   G   I   I   G   R   L   G   D   L   G   V   I   P   Q   K   Y   D   V   A   I   S   T   S
UniRef90_U6HMN1	N   L   R   L   L   L   L   E   A   G   L   E   G   I   H   G   P   V   A   Q   L   G   E   V   D   D   R   H   R   L   A   L   E   V   A
UniRef90_Q7V5H6	N   K   S   V   K   N   L   M   I   H   I   K   K   G   Y   I   K   C   V   I   G   D   S   I   N   V   E   K   R   F   E   T   A   I   E   I   A
UniRef90_R4KCJ5	N   G   L   S   A   V   Q   R   I   A   K   D   H   S   I   G   V   H   G   P   L   I   M   E   C   D   E   R   F   F   A   V   V   E   A   V
UniRef90_C1MPE2	R   G   L   K   A   I   R   R   Y   K   K   T   L   N   P   G   C   Y   G   T   L   A   E   L   M   E   V   D   S   K   Y   A   T   A   V   E   T   A
UniRef90_U4LD32	R   S   L   R   T   I   F   S   G   V   H   G   R   L   M   D   L   C   K   P   Q   R   K   Y   E   L   A   I   A   T   A
UniRef90_A8PX53	R   G   L   A   A   V   R   R   I   K   E   R   L   N   P   G   C   Y   G   T   L   V   E   L   M   D   V   Q   E   N   F   R   T   A   V   E   T   A
UniRef90_D5GBC2	G   N   A   L   D   A   V   L   G   M   D   G   V   I   G   T   V   A   Q   L   G   K   P   A   E   Y   A   A   L   D   A   A
UniRef90_E1RII6	Q   S   G   L   P   G   V   C   G   L   V   C   Q   L   G   R   V   E   P   D   F   Q   L   A   L   E   A   A
UniRef90_A0YTB3	G   H   S   I   R   K   I   F   E   N   K   D   I   F   D   G   L   I   D   V   V   A   N   L   I   D   F   D   K   S   L   S   T   A   Y   E   V   L
UniRef90_S9PSK2	F   P   G   V   K   G   R   V   I   D   L   C   K   P   Q   R   K   Y   E   S   A   L   I   A   A
UniRef90_A7HMD4	A   V   D   Y   L   L   R   Q   R   D   L   G   K   V   P   G   I   R   G   T   V   E   E   L   A   S   Y   D   P   Q   Y   S   T   A   V   L   V   A
UniRef90_U4LAP2	K   A   E   L   I   E   T   L   K   R   L   F   P   G   V   H   G   R   L   I   D   C   E   P   H   K   K   Y   Q   V   A   I   T   K   V
UniRef90_T0ZDH1	F   P   G   V   K   G   R   V   I   D   L   C   K   P   Q   R   K   Y   D   L   A   I   S   T   V
UniRef90_T1FP99	F   P   G   V   K   G   R   V   I   D   L   C   K   P   Q   R   K   Y   D   L   A   I   S   T   V
UniRef90_UP10004561443	G   V   R   N   V   L   N   H   S   Q   Y   P   G   V   V   G   A   I   G   E   I   S   F   P   T   E   L   E   A   M   T   T   A
UniRef90_D4YS68	G   N   G   L   R   A   V   D   Q   I   K   Q   R   H   S   L   E   G   V   Y   G   P   L   Y   R   L   F   K   I   K   D   E   F   N   I   A   V   E   T   A
UniRef90_D8PZC5	E   T   I   E   Q   L   K   K   K   F   P   G   V   Y   G   R   L   I   D   H   C   E   V   H   R   K   Y   Q   L   A   I   L   T   K   V
UniRef90_M4SHU2	N   R   S   V   K   L   I   M   R   L   R   D   A   K   M   N   K   G   I   Y   G   P   V   G   R   L   I   Q   V   D   A   E   Y   E   T   A   F   E   A   A
UniRef90_F4A2S1	R   A   T   Q   A   I   L   S   A   R   L   P   G   V   L   G   V   A   Q   L   G   Q   V   D   P   Q   Y   Q   L   A   L   E   I   A
UniRef90_Q2JQX1	K   S   V   K   E   A   L   Y   S   K   N   N   S   V   Y   G   T   L   A   S   L   I   S   D   E   K   Y   E   Y   A   L   E   I   A
UniRef90_R5LG60	G   S   G   L   R   A   I   D   K   I   A   E   R   P   G   F   D   G   V   Y   G   P   L   Y   R   L   F   E   V   D   E   K   F   N   T   A   V   E   T   A
UniRef90_M2QKH4	N   S   V   K   N   L   N   N   P   K   F   K   V   H   N   I   G   K   L   D   M   E   E   K   Y   Q   L   A   L   S   T   S
UniRef90_R5T2X2	N   S   V   K   N   I   L   N   N   P   K   F   K   V   H   N   I   G   K   L   D   M   E   E   K   Y   Q   L   A   L   S   T   S
UniRef90_S3D1F8	R   G   L   A   T   V   R   R   L   K   K   E   Q   N   I   E   G   A   F   G   T   L   A   E   L   M   E   V   S   E   N   Y   R   T   A   A   E   T   A
UniRef90_M5G8Y6	R   L   K   E   T   L   D   E   L   Q   R   L   F   P   G   V   G   R   V   I   N   L   C   K   I   A   R   K   Y   D   T   A   V   S   I   V
UniRef90_G2X7V0	R   G   L   A   T   I   R   R   L   K   R   E   Q   D   I   P   G   A   Y   G   T   L   A   E   L   F   E   V   N   E   A   Y   R   L   A   A   E   I   A
UniRef90_W3Y4S4	G   T   K   N   I   L   N   G   K   G   S   W   R   S   Q   I   T   G   A   V   G   D   L   F   T   V   E   D   K   F   T   T   A   L   E   T   A
UniRef90_A2DUX0	N   E   A   L   D   A   I   M   S   L   N   I   P   G   V   Y   G   K   L   A   K   G   E   I   D   R   K   Y   N   A   A   M   T   A   A
UniRef90_UP100047C5F7C	G   I   K   T   V   L   S   L   A   K   S   N   N   I   G   V   L   G   D   L   I   T   N   E   G   Y   E   L   A   I   S   S   A
UniRef90_B8I7R8	R   S   V   K   E   I   M   T   A   C   R   R   S   S   D   K   G   I   H   G   T   V   A   Q   L   V   E   V   D   K   K   Y   E   T   A   I   E   M   T

50            60            70            80

UniRef90_S7R9G9	L G R I D A V V V   D E E K T A   D C	E Y M R N Q R A G Q A T F   P   L   D T   Q V
UniRef90_M4YLK6	A G N M R A V V V K D D D V A A T C	K F L K D N R L G R V T F   P   I   N K M M P
UniRef90_K2EVF3	M G G M R F I V V D T D E I A S R A	E I L K S A R A G R A T F   P   I   N K I N P
UniRef90_D2MPY8	L G G A I H V L T E N E V A A R H A	D F L K R N Q A G R C T F   P   I   T V C Q A
UniRef90_F4RTD0	C P Q L D N L V C D S V E T G Q S C	A H L K Q T N A G R A V I L C   N A L S A
UniRef90_M7XQG4	L G R I L D S I V V H N E K T A I S C	E Y M R V Q R L G Q A T F   P   I   E T V Q V
UniRef90_U9SSL5	L G R M D A I V D Q K T A I E C	D F L K R N Q A G R C T F   P   I   D T I V V
UniRef90_UP100035DC0A5	A G S L A Q L V V E D D V V A A A	A H L K Q T N A G R A V I L C   N A L S A
UniRef90_C7P804	A G R L N H I V V K R M E D G V R A	E Y M R V Q R L G Q A T F   P   I   D T I V V
UniRef90_M7NJZ0	G A A A Q N I V T V T E A D A R Q A	G Y L K Q K R G G R A T F   P   I   S V M K P
UniRef90_KON5H9	L G S L L Q A I V T R D E A A A Q R A	S L L K Q Q R A G R A T F   P   I   P A V M R P
UniRef90_S2LME2	L G S L L Q D I I V K N V D S A K K A	E K L K R E K L G R A T F   P   I   S S I K E P
UniRef90_R4U5K6	L G R R L Q D I I V K N V D S A K K A	S Y L K Q N N A G H A T F   I   P   I   D R I Q P
UniRef90_M0S7X5	G N S L L F H V V V E T D D I S T K I	R Y L T A E K G G R V T F   I   P   I   S K M Q S
UniRef90_TON0S3	A G S L L N S V V V D N E N V A E C	S L L K E S K L Q R A T F   P   I   T V L K K
UniRef90_UP10002D2ECA8	G G A L Y Y I V T E D E I S A R H A	T Y L K K N A S G R A T F   P   I   P L N K L Q P
UniRef90_K8GN89	A G A L G N L V V E D D G V A A A A	E L L K Q R K K A G R A T F   P   I   P L T T I K A
UniRef90_UP1000370FB70	L A A S Q H I I V E D E A A A A K R G	A F L K K N S R Q G R A T F   P   I   P L D T L K A
UniRef90_W6A869	L N S L L Q N I V A N N S S D V K Q A	E F L K S N S K A G Y A T F   P   I   D T L K A
UniRef90_K7UQ21	S S G N Y V V V E T I N S A S A Q A C	I L E K Q T H
UniRef90_R5VLT1	L G A N S N I V V N D T E C A K M A	E L L R R N R E E T V T C   I   L E K Q T H
UniRef90_D1PPW1	L S A L Q N I V V E D Q G C A R A A A	A F L K E E R A G R A T F   P   I   P L D T V Q G
UniRef90_TON7W5	A G G L L N S I V V D N E D D V A Q D C	E L L R E K K L G R V T F   I   P   I   P L N K I L P
UniRef90_R6Y5T1	L S S V S H V C D N E E D A K E A V	R Y L K N N N L G R A T F   P   I   S V I K P
UniRef90_D6S4Q2	L G G V Q D L V T D T K Q S S R N A I	M Q L K Q N R M G R A T F   P   I   D G L R F
UniRef90_B0JSN6	G G R L G H V V V Q D D S V A A A G	A L L K Q R R I G R A T F   P   I   P L N K I R P
UniRef90_B6JZ09	L G R F E S I V V E S H T I A K E C	N Y I R D Q R V G V M T F   P   I   P M D T I A A
UniRef90_R6BKY4	L G A S N S I V T N D E A C A K E A	E Y L K S H N K G R A T F   P   I   P L N V I K P
UniRef90_UP1000347358D	A G A L G Y L V V E D D G V A A A G	A L L K R E N A G R A T F   P   I   P L N R I Q G
UniRef90_U2D971	L G A I S D I I T D S E E T A K N L	S Y L R N N N I G R A T F   P   I   P L S I I R G
UniRef90_K9IEE2	L G S I I Q N V V V D T D Q T A K S I	E F L K K Q R Q G R V T F   P   I   P R N T L Q A
UniRef90_F2QRV0	A T L L N D L V V E D V E T A Q L A	E Y L R K H K L G F A R F   I   V L N K L K S P
UniRef90_M1X499	A G S L G H I V V E D D S V A A A N G	W L L N Q K Q A G R A T F   P   I   P L N K I S P
UniRef90_Q5CNS5	V P Q V E N I V V Q T T E D A Q E V V	N Y V R K S N L G R I S C   I   L E K I S V
UniRef90_K9S7V7	A G A L G H L V V E D D S V A A A C	E L L K Q R R A G R A T F   P   I   P L N K I Q P
UniRef90_Q049R2	L G G V Q S L V A K D R M A A K D A	Q O L K V R R L G R A T F   P   I   P L N D A L R Y
UniRef90_U2N5X7	L G G I S N V I T E D E A I A K R L	N Y L K D N K L G R A T F   P   I   P L S I I K G
UniRef90_UP1000440B973	L G R I D A V V V D E E K T A   D C	E Y M R N Q R A G Q A T F   P   I   P L D T I Q V
UniRef90_UP1000476543C	A G G L G F L V V E D D V V A S A G	R L L K E K K R A G R A T F   P   I   P L N K I R P
UniRef90_B8HST0	A G A L G N I V V E D D A V A A A G	E I L L K R E R G G R A T F   P   I   P L N K I Q P
UniRef90_F6UJH6	L G N N M D A I I V D S E K T G R D C	Q Y I K E Q R G E P E T F   P   I   P L N D Y L E V
UniRef90_UP10003478677	A G R L L A N I V V V D S D E V A A K A	N L L K Q S R G G R A T F   P   I   P L N K L K P
UniRef90_A0A037UJH0	L G R L L Q D I L V K N V D S A K R A	S Y L K Q N R A G R A T F   P   I   P L D V I S P
UniRef90_F5WTA0	L G S M V H I V T E N D K A A V N A I	N F L K K N M S G R A T F   P   I   P L T S C K S
UniRef90_A8SMU2	L S S L L Q G Q I V V H N D L E A K K I	E K I K A N K I L G R A T F   P   I   P L S K I I L
UniRef90_D6RP77	G N S L L F H V V V D T D E T A S K V L	E V M L K E K T G R V T F   M   P   I   P L N R L K P
UniRef90_C5YWM6	G N S L L F H V V V E N D D I S T K I	E Y L N L Y K G G R V T F   P   I   P L N R V K V
UniRef90_V9H339	L G G I S N I V I T K D E N V A K L L	D Y L K K K N S L G R A T F   P   I   P L N I I K N
UniRef90_W0DED8	G G R L L S F V V V E D E V A K K C	Q R L K E R G G R M S F   P   I   P L N R I K D
UniRef90_L7EMH9	L G A I S N I V I T E D E I L A K D L	K Y L K Y N K L G R A T F   P   I   P L N I I Q N
UniRef90_X8K519	M G A L Q N V I C E N D D D A K R A V	K F L K E N R V G R I T F   P   I   A S I V R A
UniRef90_I4ENJ0	L G G L Q D I V V V E R W A D A E Q A	E Y L K R T R G G R A T F   P   I   P L D T V R A
UniRef90_L9VML0	A G G L L A N V V V D D I I G Q C	H L K S R N A G R A T F   P   I   P L M T D M N Q
UniRef90_U5H272	L G R I D S I V V D D N E R T A I Q C	E Y M R V Q R A G Q A T F   P   I   P L E T I T A
UniRef90_N9VBZ0	L S S A Q H L V V D D K S E T A V K A V	N F L K S N D G G R A T F   P   I   P L T S I Q P
UniRef90_X8JGT9	G N S L L F H V V V D T D A T A Q K V L	D V L Q R E K S G R V T F   M   P   I   P L N R L K P
UniRef90_I1FQ05	L G R R M D A I I V D S E R T G K D C	Q Y I K E Q H G D P C   T F   P   I   P L D T I E V
UniRef90_E4L804	L G G V V S N I V V V D T S K T A Q N I	E W L K R R K L G R T F   Y   P   I   P L A S I I R R
UniRef90_N1JND9	A G S L L F H Y I V D N E G T G S L L	M E Q L Q K N F G G R V T F   I   P   I   P L A Q L Q Y
UniRef90_W0GMF1	L G R L L Q D I V V V K N V D S A K K A	G Y L K Q N K A G H A T F   I   P   I   P L D L I T P
UniRef90_W6AA39	L A A L Q N I V I D S G E S A K E I	R F L K L Q N K A G Y A T F   I   P   I   P L S S I R P
UniRef90_Q017K9	C A P L L D H I V V V E T M E L A Q R A	E I R F L K L N Q G N F L A L D K Q K H
UniRef90_U6HMN1	C G A L L D H I V V V E T M E L A Q R A	E I R F L K L N Q G N F L A L D K Q K H
UniRef90_Q7V5H6	A G A L L A Q V V V D D D R I A A K K A	E L L K S K R A G R L T F   P   I   P L N R I K M
UniRef90_R4KCJ5	L G G I S N I V I T E D E I L A K K L I	N Y L K D N N L G R A T F   P   I   P L N I I Q N
UniRef90_C1MPE2	T N Q L L F H V V V D N D D V A S K K I	E Y L K N E K E R S G R V T F   M   P   I   P L N R L K P
UniRef90_U4LD32	G Q S L L F H Y V V D D N E R T A S I L V	E Q L N K E R S G R V T F   M   P   I   P L T T L K P
UniRef90_A8PX53	L G R A E A V V V N H E K T A V E C	E Y L R N Q R A G Q A T F   P   I   P L D T I Q T
UniRef90_D5GBC2	G Q S L L F H Y V V V D N D D T A T V L	Q H L Q R E K A G R I T F   M   P   I   P L N R L K P
UniRef90_E1R16	G G R L L R N V V V E N D D A V A A D A	G R F L K E K R R L G R M T F   P   I   P L N K L R A
UniRef90_A0YTB3	G G R L L G H L V V V E D D G V A A A G	E L L K R Q K A G R I T F   P   I   P L N K I R P
UniRef90_S9PSK2	L G N F D A I V V G S Q A T A K E C	D Y I R E Q R I G V M T F   P   I   P M D T V A V
UniRef90_A7HMD4	L G A V Q N V V V K T A E D G K I	E F L K A G E Y G R A T F   P   I   P L D L I D S
UniRef90_U4LAP2	L G R F D A V V V D S E K T A T D C	E F L K A G E Y G R A T F   P   I   P L E N I Q V
UniRef90_T0ZDH1	A G R F Q A L V V V E S D Q V A E S C	G Y L K E Q K L G I V T F   P   I   P L N K V L A
UniRef90_T1FP99	L G K M D A I V A C D S E K T A K D C	Q Y M K E Q R I E P E T F   P   I   P L D Y V E V
UniRef90_UP10004561443	L G R A D A V I V D H E R T A I D C	E Y L R N Q R A G Q A T F   P   I   P L D S I Q V
UniRef90_D4YS68	L G G V V Q D L V T E S R S R A K D A	N T L K N H A G R A T F   P   I   P L D G L L R Q
UniRef90_D8PZC5	G N S L L F H V V V D T D E T A S R V L	D I M I R D R I G R V T F   M   P   I   P L N R L H P
UniRef90_M4SHU2	M G S I I D A I V V D T E K T A R E C	Q F M K E Q R Q L Q S E T F Y P   I   P L D F I D V
UniRef90_F4A2S1	L G S I I Q Y L V T R N D D D A R Y A I	D F L K A R Q G G R A T F   L   P   I   S A I K P
UniRef90_Q2JQX1	A G R L L H F V V V E D E S V A V A S A	N L L K R E K L G R A T F   P   I   P L N K L Q P
UniRef90_R5LG60	L G G M Q N I V V V N S E S E A K D I	A Y L K E K E Y G R A T F   P   I   P L N G I L K V
UniRef90_M2QKH4	G N S L L F H V V V D S D A T A Q K V L	D V M I R E R T G R V T F   M   P   I   P L N R L H P
UniRef90_R5T2X2	L G A S S Y I V T D N E E E A S C Y C	H Y L R D N N L G R A T F   Y   P   I   P L N I I K P
UniRef90_S3D1F8	G A S L L F H Y V V D N A E T A T Y L M	E I L R D N R L G R A T F   Y   P   I   P L N I I K P
UniRef90_M5G8Y6	L G K I I D S L V V D E E K Q A I E C	L E A I R R R L G R V T F   I   P   I   S L D K V S V
UniRef90_G2X7V0	G N S L L F H Y V V Q D S R T S E F I	E Q L N R Q K G G R V T F   M   P   I   P L D Q L R P
UniRef90_W3Y4S4	L G G V N H V V T T A R A A S D G V	N Y L K S Q Q G G R V T F   P   I   P M D S V K G
UniRef90_A2DXU0	A G N L L K Y I V V D N M D I A Q C	A E I R R R L G R V T F   I   P   I   S L D K V S V
UniRef90_UP100047C5F7C	L G A I E F F I V T T D D L T A R D T I	K F L R D N K A G R A T F   L   P   I   P V N T M K P
UniRef90_B8I7R8	L G A L Q N I V T S S E G D A K K A	E F L K R N K V G R A T F   P   I   T S V K G

90                    100                    110                    120

UniRef90_S7R9G9	K P V N D K F R S F A S K G A R L A I D V I E Y E P A V E R A I H H A C G N A L			
UniRef90_M4YLK6	G K P R A K A I M V L K Q T E G Y A T D F L Q Y K P E Y E N V F W Y V L G D T L			
UniRef90_K2EVF3	R P R G Q K V P N I P G V I D Y A I N L I E F D S V Y D S A F H F A L G E T L			
UniRef90_D2MPY8	R Y I S K E V L Q N Q D G Y L G L A S D Y V H I D E K Y Q A V V A A L L Q N V L			
UniRef90_F4RTD0	S D S K P I E T P E G A P R L I D L V T P K D E S F R V A F Y H V L R D T L			
UniRef90_M7XQG4	K P I S D K Y R S F A K G A R L A I D V I T F D S S V E K A M Q F A C G N A L			
UniRef90_U9SSL5	K P I N D K Y R S F M K G A R L A I D V I T F D S S V E K A M Q F A C G N A L			
UniRef90_UP100035DC0A5	R F P D T K A L A Y A R G F I D T A F N L V A C E Q K Y K T I F A Y Y V F G N T V			
UniRef90_C7P804	R E A E Y I Y E D G V I G R A I D L V E F D E K Y R K I F E Y Y V F G N T V			
UniRef90_M7NJZ0	R R V D A S S L S S H G D F I G T G D T V V T A E E K Y M P I V Q N L L G N V L			
UniRef90_K0N5H9	R E L P S A V L Q L V E G A E G F L L Q L A Q Y P A D L A H V M A N L L G S V L L			
UniRef90_S2LME2	R D G R Y D S V R G E K G L I G V F A D F V E V P R S C A G L E N Y L L S K V L			
UniRef90_R4U5K6	R Y I S D N E I L K S V P G F L G L G H N L I T T K K E Y R Q A V D Y L L S R Y I			
UniRef90_M0S7X5	P H I T Y P Q S S D V V P P L L K K L K F R S D Y A P A F S Q V F G R T V			
UniRef90_T0N0S3	G R P R G K A L K Q S G E T M G L L S E N I K Y S P E Y E N I I W Y A F Q D T I			
UniRef90_UP10002D2ECA8	R G I H E L I A K N S V G Y L G T A N E F V D C D T A F E V V R D S L M G N V L			
UniRef90_K8GN89	R F P S R G M L R S L P G C I G F A V D L I K F D S Q Y R D V F A Y V F G T T L			
UniRef90_UP1000370FB70	R D H Y L H V L E S C Q Q G F L G S A E S L V T Y D K H L S T I F K N L L S T T L			
UniRef90_W6A869	N F I M R F A I Q K A D G F I G F A N E L I K T E K K Y Q I V L D Y L L A N H I			
UniRef90_K7UQ21	L H K I K E K V K T P E G V P R L F D L V K V K D E K L K L A F F H V L G N T V			
UniRef90_R5VLT1	R S V D S E T L K L V Q N I V G V A S D I V K Y D K K Y E D V I K N Q L G N T L			
UniRef90_D1PPW1	S R F N G R L T G T A E V A A D L V T T D P K Y Q H I I D N L L G R I I			
UniRef90_T0N7W5	G R P R G K A L T I I Q Q T T S L L S Q Q V K C Q D V Y A N A I W Y T F Q D T V			
UniRef90_R6Y5T1	R S I D Y E T I K S M M N G F V D I G I A S N L V R Y D T K Y R N I V L S L L G T I V			
UniRef90_D6S4Q2	S T I P S T T L K S M P M G F I G V A S E L V T Q D V D S V A V N Y L L G N V I			
UniRef90_B0JSN6	P R P Q D I S L R H A R G Y I D L A V N L V K F Q S Q Y R E V F N Y I F G S T V			
UniRef90_B6JZ09	K P T N Q N L R G A Y T G A R L A I D I I N Y E S V Y E R V M A S V L L G D T I			
UniRef90_R6BKY4	K S V D P E T L K S I S N F I G I G I A S D L I V T Y D T K Y Y N I V M M N Q L G N I I			
UniRef90_UP1000347358D	H K L S I P K W Q T P E G F I D H A V N L V D C D D R Y G D I F S Y V F G N T V			
UniRef90_U2D971	K R I I N I D N L K N T V T G F I G I A S D L I I E Y D K K F T N A I D F V L G R T I			
UniRef90_K9IEE2	R T I M L T Q V H S L A G F C G V A S D L I K V A N V D R V V S Q H L L G T T L			
UniRef90_F2QRV0	N M K S I D T P Y N V P R L F D L I R A K D S R F L P A F Y S V L R D T L			
UniRef90_M1X499	S S L L S P S L E D S S N F I D Y A V N L V I E C D R C Y I R I F S Y V F G N T V			
UniRef90_Q5CNS5	T Q N M E K T F K A P E G S K R F F D L V K F K D P K F K I A W Y F A M R D T L			
UniRef90_K9S7V7	R F Q K L S P W Q R P E G F V D Y A V E L I I D C D D R Y R D I F A Y V F G S T A			
UniRef90_Q049R2	R A I P A S T R Q A L E R F A G L A S E L V K V G D T D I S E A I Q Y L L G S I I			
UniRef90_U2N5X7	K K A I N E K I L T K I Q G G Y I G L A S D L I G Y D K K Y D N A I N Y S L G R T I			
UniRef90_UP1000440B973	K P I N D K Y R A F A K G A R L A V D V I I Q F D A A V E R A M H H A C G N A L			
UniRef90_UP1000476543C	R S L S Y P D I E R S Q G G F I D Y A V N L L T C E E R Y D E V F A Y V F G N T V			
UniRef90_B8HST0	P R S L P D L F A E G A I D Y A V H L V E F E P R F Q S I F A Y V F A N T V			
UniRef90_F6UJH6	K P T D E K L R E L K G A K L V I D V I R Y E P P H I K K A L Q Y A C G N A L			
UniRef90_UP10003478677	A R D L F D L D P K L G A I A Y A L D L V I E F D V R Y E D V F A Y I F G N T I			
UniRef90_A0A037UJH0	R Y L N E F V I K S V Q G Y L G L G N S L V K V K K E F R I A V D Y L L S R Y L			
UniRef90_F5WTA0	R S V S E D A L T V C E H A P G F A S D F V S N D A V F D I L K E S L L G N V L			
UniRef90_A8SMU2	K K E Y S S I I D S D I L S F A N D V I T C D N D Y R N I V D Y F L A N T I			
UniRef90_D6RP77	K V P N M P V N A A D A E P L L N K L E Y D P L Y E K A F Q Q V F G K T C			
UniRef90_C5YWM6	P D L S C P Q S P D F V P L L K K L K Y R A E H R R A F E Q V F G R T V			
UniRef90_V9H339	R L M V S E N K N V P G F L G L A S D L I K F D S K F S E I M D Y S L G K T I L			
UniRef90_W0DED8	Q P L P P F P R T R G A V V I D Y A V N L V I E C D R C Y I R I F S Y V F G N T V			
UniRef90_L7EMH9	K F N I D N S I K S I V G Y I G I A S E L L I E Y D S S L T K A L E H V L G R T L			
UniRef90_X8K519	K Q A I L S D K L K D D K G F L G M A V Y I I I S F D K E L A N I I Y S Y L L G R V A			
UniRef90_J4ENJ0	R R P A Q L P R H S V S G V V R G I A S E L V T C D D R V N P I L A G L L G Q V V			
UniRef90_L9VML0	R R L P N A P S D P G V D F A Y N L V E F D G Q Y S G V F S Y V L G D T L			
UniRef90_U5H272	K P A N D K Y R N F A R G A R L A I D V I T F D T S V E R A M Q F A C G N A L			
UniRef90_N9VBZ0	R D D H L L G I Q G H V G F V A V A S D L V N T E P E F D V L K R F L L G N V I			
UniRef90_X8JGT9	R L V P F P Q A P D A L P I D R L Q F D P L H R R A F E Q V F G K T A			
UniRef90_I1FQ05	K P I N E S Y R R L G T C K L V F D V I R F D P P V I K N A L Q F S C G N A L			
UniRef90_E4L804	K H R S E I L E K E I L E I V R G F A K S I K F Y D K K Y S E L F E Y L L N G T V			
UniRef90_N1JND9	N P M K L P N A S D A I P L I S K I S F E K K F A D A M N Q V F G K T I			
UniRef90_W0GMF1	H Y L R D D E I Q S V K G Y L G I A H K L V K T S K E Y Q P A I D Y L L S R Y I			
UniRef90_W6A39	N F I S D E Q I K K A G F V G F G N D L V K I D A K Y Q K A I D Y I L G T T I			
UniRef90_Q017K9	L V K M R A N A S N P E N V P R L I D L I K P A E E R F A A A F Y F G V R D T L			
UniRef90_U6HMN1	W T K E A A K P F V G P V A Q R L F D L V D T V N P R V K P C F Y F A L R N T L			
UniRef90_Q7V5H6	R G R K P D N A D S S T G M I G K A F E L V R F E P I Y A E V F A Y V F G E T L			
UniRef90_R4KCJ5	K N V I D S N I K N A S G Y I G I A S K L V E Y D K E L S A V E H V L G R T V			
UniRef90_C1MPE2	R P R E Y P D S Q D V F P M L S K I R F D D K L R P A F D K L F G N V L			
UniRef90_U4LD32	S L G N F P D D S N A I P L I R K L K Y D N R Y K K A F E Q V F G K T I			
UniRef90_A8PX53	K L I N D R L R S L S P Q A R L A I D V I Q F P P A V E R A V H Y A C G N T M			
UniRef90_D5GBC2	R L G S F P G T K D A L P M I D Y I E P E S Y P S L D K N V I N Y A V N L L D Y D S R D V V F R H V F G T T V			
UniRef90_E1RII6	N M G S M A T M R S L E G F V D L A V N L I E C D R Q Y E N I I F A Y V F G N T M			
UniRef90_A0YTB3	K P V N Q S F R G T H A G A R L A I D V V N F E P Q Y E R V I V S A L G N T L			
UniRef90_S9PSK2	S F S E I K G V E K E E G F I G Y A A K L V N V S K E Y E A L P Y F L F G N D I V			
UniRef90_A7HMD4	K A L N S N L K G M H R G M R M A I D T I I E F D N S V E G A M L Y A C G N A V			
UniRef90_U4LAP2	G R P H G K S L Q K A P G C R G F A L D L V R F D E E L R P A F W Y V F G E T L			
UniRef90_T0ZDH1	R P V N E R D I K E P K N V K L V V D V I R Y D P P C I K K A L L F A C C G N A L			
UniRef90_T1FP99	K P I N D R L R N I A K G A R L A I D V I Q Y D S V I E R A I Q H A C G N A L			
UniRef90_UP10004561443	Y H I P A T T L K S F S G F G K G I A S D L V T S N S K V S P A I N Y L L G S V I			
UniRef90_D4YS68	N V P P M P D T L D A V P L I N Q L E F D E T H I K A L Q Q V F G K T C			
UniRef90_D8PZC5	L D E R I R E I R D P R N T K M L I D V I K F N P P Q L K K A L L F A V V G N C L			
UniRef90_M4SHU2	R R L S E R E R A A L K H C G V A C D I A Q F S P E F S D V V G Y L L G R V L			
UniRef90_F4A2S1	A R P P A P L N L G I D Y A I R L V H F E E R Y R D V F G F V F G S T L			
UniRef90_Q2JQX1	R F D L N R K V T K Y T G Y I G L A S E L V K Y D S K F A K V I N L S L G Q T L			
UniRef90_R5LG60	K S P A T P N A Q D A I P L I E K L R F D E S N T K A F Q Q V F G K T W			
UniRef90_M2QKH4	R Y I P S N I I N S I K D V V D I A S N V V K Y D K K Y E N I I L N Q L G N V I			
UniRef90_R5T2X2	K P T K L P N A N D A V P L S R I T Y D E K Y E K A M N Q V F G Q T I			
UniRef90_S3D1F8	R Q V N L P R S Q D A V P L L S K I R Y D P K Y E K A F Q Q V F G K V V			
UniRef90_M5G8Y6	K P Y D T P A L T E S C V G T A V D C I S F D N Q Y T H I F Q Y L L G R T L			
UniRef90_G2X7V0	R S V R E E H L K T M D G Y L G L A S D F V I S Y D D K I E S V V L N Q L G N I I			
UniRef90_W3Y4S4	UniRef90_A2DUX0	K R L I D D R R L E D C Q G F C G V A S N L V N S D P S Y A G I V L N L G R V I		
UniRef90_UP100047C5F7C				
UniRef90_B8I7R8				

130                  140                  150                  160

UniRef90_S7R9G9	V C D T M D V A R Y V C Y E K G Q E V K A V T L E G T I I H K S G L I T G G R S
UniRef90_M4YLK6	V D S S I D H A R S I M G G I R I V T K A G E L I I E A S G A M T G G G T L
UniRef90_K2EVF3	I V E D M N V A R S L I G R Y R M V T L D G S L L E E K S G A M T G G S A
UniRef90_D2MPY8	V V E N L E K G N I L L S S L I H R Q Y K I V T L D G E V I I H R G G S M T G G R F
UniRef90_F4RTD0	V A N D L T Q A N R I A F G G K R W R V V T L L D G K L I D
UniRef90_M7XQG4	V C D S M Q I A R H V C Y D R G Q E V K A V T L E G T V I I H R S G T I T G G T S
UniRef90_U9SSL5	V C D T L E I A K Y I C Y E K N Q V K A V T L L D G T I I I H K S G L V T G G H S
UniRef90_UP100035DC0A5	V F E N L E L A R A H L G K T R I V T L Q G E L L E S S G A M T G G S Q
UniRef90_C7P804	V V E N I D I A K E L A K K Y R K V R F V T L L D G D V I E P S G V M V G G T F
UniRef90_M7NJZ0	I S R T L L K G A N E I A G L T G H R Y R V V T L L D G D V V N A G G S M T G G G T
UniRef90_KON5H9	M V D T L P H A I A I A N T T H R Y R I V T T A G D I L L N P G G S L T T G G Q V
UniRef90_S2LME2	L V D N L D N A L S I A R K Y K H S L R I V T L L D G E L L Q A G G A I S G G A Y
UniRef90_R4U5K6	I C D N F D S A Q E V G Q L L N F K Y N I V T L L E G E I I I R P Q G A I T G G S R
UniRef90_M0S7X5	I C R D L D D V A T S V A R N N S L D C I T L E G D Q V S K K G G M T G G F Y
UniRef90_T0N0S3	L V K N I E I A K K H M T G V R I V T L L D G D I F E S S G A I S G G F L
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UniRef90_R5VLT1	I V K V D I D T L N K V G R Q K Y K Y K I V S L D G E I I Q Y T N G A L T G G V Y
UniRef90_D1PPW1	V V E D L A E A S A V A K N L G Y R N R I V T L L D G Q V I N A G G S F T G G S T
UniRef90_T0N7W5	L V D S A E I A K K Y M T G V R I V T L L D G D I F E A S G A I S G G F M
UniRef90_R6Y5T1	V V D N I D N A N L I S K K L K N R Y K V V T M T G E V V N I G G S I T G G S L
UniRef90_D6S4Q2	V A D T I D N A M M K I I N S R I Y R Y R I V T L L D G D V I S P G G S M S G G A K
UniRef90_B0JSN6	V F E D L D S A R Y Y I N Q Y R I V T L L D G E L L E M T G A M T G G S Q
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UniRef90_U2D971	I A S N M D Y A L S I A K K T D Y S Y K I V T Q T G E T I N P G G S L T G G S I
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UniRef90_K9S7V7	V F S S L L A E A R R V L G Q F R I V T L L E G E L L E T S G A M T G G S V
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UniRef90_UP100035DC0A5	S S R S
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UniRef90_S2LME2	R N S S S
UniRef90_R4U5K6	N A K Q
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 L | G S A D N | V V V E D D K V A E K A | K F L | K E N R L | G R F S F | L | P | L | N K I | K P  
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UniRef90_S2K2L7	P H I N D R Y R N F V K G A R L A Y D V L K F D K Q Y D N A V Q Y A C A S T L			
UniRef90_M1RS12	Q S L P P Y P R Q R G Y I D F A L K L V D Y D T K L E P A I S F V F G D T L			
UniRef90_R5J8L7	K Y I D D N N T L N T L K N S K G F I D I I I V T Y N D S Y K N I V L N Q L G N I I			
UniRef90_T2MDB1	K S T N E Q L R E I G G S A K L V I D I I I K Y D P S C I K K A L Q F S C G N S I L			
UniRef90_Q5FJJ8	Y G I P Q T T L K S Y D G F R G I A S D L V K T D Q D I T A N Y L L G S V V			
UniRef90_U7VDX3	G S I K D L P K K E G V V G R A S D L V T V D K K Y S K V L D M L L G N I L L			
UniRef90_UPI0004623B2D	K V P P A P N A Q D A I P L L D K L R Y D Q K H A K A F E Q V F G K T C			
UniRef90_V9DB30	K A I G S N L R G M H K G M L P A I E T V D Y D Q S V A R A I S Y A C G N A I			
UniRef90_A0A022R8F2	P L V T Y P P N V E P L L E K L E F L E K Y A S A F G Q F S K T V			
UniRef90_U1GAB5	K A L N S N L K G M H R N M R P A I E T V D Y D Q S V S R A I S Y A C G N S I			
UniRef90_A0A058Z3M0	P R P K P P T P E N A D R L F D L I Q V Q N P L F L K A F Y F A Y G D T L			
UniRef90_W1Q7K1	K P P Q A Y L R N I D E H V R P T F D V V T F F D P E L E R A I Q Y V C G N S I			
UniRef90_S0FN40	K R L L D D N T I R E F K G F C G L A S D L V T C D S R Y K G I V L N L L G R V A			
UniRef90_K9YTU1	R Q N M T A A L R Y A N G F I D Y A V N L I E C E P R Y Q V I F A F I F G N T A			
UniRef90_UPI00029A19F1	R S M S E R P E L G T P A M E V M V Q Y D P K F Q K A V A Y A L L G D T L			
UniRef90_G8ZR43	E T S T L P A S E S S G C I L A I N A I E Y D P E Y E R A M R Y V C S D S I			
UniRef90_B5ZAX3	K S I F Y D V L K E L D G F V G I A N E L V K I D T N Y K I S D Y L L G N T I			
UniRef90_Q011Q9	P N V T Y P E G S D A F P L V S K L K Y D A K Y D A F K Q I F A R V L			
UniRef90_Q895M7	N S I E L S K I K N T S G Y G I A C E L I N Y K E E F S Q I K H I L G R T I			
UniRef90_C4XDU3	K M I R D D H L L A I Q G H P G F I D N L V T I D P Q Y E I L N K F L L G N V I			
UniRef90_R4XAV1	V Q I K A D L R S I H K Q A R L A I D V I N F E S A L A R A V Q Y A C A D S I			
UniRef90_O28714	F K L S L D K I L K E D G V I D F A V N L V R C D K F Q P V F R F I L R D T V			
UniRef90_G4VHB4	K P I D E R E I S D P P N V H L V I D V I Q C D P I I V K V K A L T F A C G N A L			
UniRef90_F2JS80	A F P M Q E K L S E E V V G F L G L G S E L I S Y D K K Y E N V S S L L G R I L			
UniRef90_Q7U9B7	R G P R A G G G E N S D G L V G R A V D L V R F E P P V Y D Q V F A Y V F G D T L			
UniRef90_E5S134	K P L N E R L R E P R N V K L I F D V I Q F E P P Q I R R V V Q F A C G N S I L			
UniRef90_M4B2S4	K P I N E R F R G L G N A I K M V V D V I E C D A E V E P A L L H Y A V G D T V			
UniRef90_U6IS06	V D E K L R E I N D P P N V H L V I D V I N C D P V T A K K A L Q F A C G N A L			
UniRef90_A2BZM5	Q R S V I H T N L N K S T G L I G K A I D L I Q Y D S I Y K N V F L Y V F G K T I			
UniRef90_M7PEX6	R Q G N F P D A P D A I P I L K K I T Y D T K Y Q K A F E Q V F G K T I			
UniRef90_K3W6J9	K D N I E Y P K N D D V V P L I D K L R F P S E V R K G V L T A F G K K L			
UniRef90_S6EPW7	N S N F S Y P P N E Q S S C T P L I K K I K Y D V R F E K A V R Q V F G K T I			
UniRef90_D3SQ87	R D V Q L P P Y P R V R G Y V D F A I R L V I E Y D P R V E K A I K F V F G D T L			
UniRef90_W9WM34	Q T A N F P N A Q D A R P L M S L M K Y D A R Y E K A V Q Q V F G K A I			
UniRef90_E7A2D6	K P I N D R L R S I A R G A R L A V D V I Q F D A S I E R A I H H A C G N A L			
UniRef90_C4R276	K E I A Y P N S N E C I P L I K K I D F E D A L L P A V K Q V F G R T V			
UniRef90_M3D511	R E T E L P N N S D A V P L I I G K I K Y D M K F D K A M Q Q V F G K T V			
UniRef90_M7TTT6	R S S N L P R A N D A V P L V S K I E Y D P L Y E K A F Q Q V F G G T I			
UniRef90_UPI000361F633	P H I P N R A M R S M Q G C I D Y A I N L I D F E D R Y Y D V F A Y I F G T T V			
UniRef90_E3L531	K N V Q Y P S D N D A I P L I H K L H Y D Q K Y Q L A F E Q V F A K T I			
UniRef90_Q01CC9	Q A I N E R L R H L G G S A R L V V D I L Q F D K S R E R A I L F A C C G D T V			
UniRef90_R7IFU2	K Y D I I N D I R N I N G Y I G V L S D L V R Y D K K Y K N I V E N R L G Q V I			
UniRef90_F9ELI3	N R R E F K A S I N G V L G L A A D L I T A D K K Y Q K V I D F I F G G L L			
UniRef90_KOKFW6	K P I D S R L R Q L D P R A R P S I D I I D Y D P V L E R A M Q F A C G N S M			
UniRef90_G7EAL5	Q P I S E K Y K A L T Q G A L L A I D L I V F D P S I T P A L L H A C C G S A L			
UniRef90_L8FT10	R P A N F P K A N D A I P M L S K I K Y D A R Y E N A F Q Q V F G K T I			
UniRef90_E2ZL01	G V F R G R L S G T A R L A S S L V Q A D R R Y D N I V S N L L G R I I			
UniRef90_B8G556	P Q H D G R R P T F S T N V I G I A A E L V E Y D P R Y A V V V I E Q L L G R T L			
UniRef90_UPI0002883994	N K I N I N Y K D E G I I G V A C N L I V F D K V F K D I F Y N L L G R V L			
UniRef90_I4YFC4	K P I Q E R L R T I S S G A R L T V D V L K Y D S I Y E K A I Q F A A G N S I L			
UniRef90_G7E609	K A V Q Y P D S T D A I P M R K V T F E E R D R K A F E Q V F S R T V			
UniRef90_UPI0004560937	F V A S A Q K V G A A Q K L V D L A L S L V G Y D D E V T R A M E Y V F G N T L			
UniRef90_S8AGL9	R P T T Y P D A T D A I P M L E K L N F D E K Y R K A F E H V F G K T I			
UniRef90_F0W7R5	D E H I Q Y P E S D D C I P L I T K L K F S S D I R K A V L T A F G K K L			
UniRef90_G2RYY9	N Y A Q K Q I I E Q S V G F V G F A N E L V N N P G E I Q I A V D Y A L S T I V			
UniRef90_M0X823	K P I T E R L R T L G G S A Q L I F D V I Q F D R A L E K A V L Y A V G N T L			
UniRef90_Q552D9	K P P K F P I L E N D L V C P L I K V I S F D P I Y T E A M K L V F G K T L			
UniRef90_C7LMR4	N L I N I P V Q R Q K S E G F V G F A N E L V E Y P E T I S K A V E Y A L A S I I			
UniRef90_C4M777	K P N W R N W K K I P K S E R I V D L I D C E P D R L R K V F Y S T V F D T I L			
UniRef90_U6PZ14	E F K D S M D T K K K F P A P R L F D L I D P D P R L R K V F Y S T V F D T I L			
UniRef90_B9L135	L P A G R R P L A R E P G V I G V A A D L I E A P P A L V P I V E S L L G R V L			
UniRef90_E5BGJ8	N K K T V S Q K I I S G V L G V A A D L V A S E E K Y R K A V D F V L L G N L L			
UniRef90_Q7VEE2	R P S I D E N S N C O N G N F I A K A I D L I E F D T I Y K D V F R Y V F G E T F			
UniRef90_S2KYM1	P A K R D I K I N I P G V I G R A A E L V T A D E R Y R S V I E F V L L G N L L			
UniRef90_R7QJ47	Q M Q G W G S S P R R A D G P R L F D F L Q I A D T E H C T A M Y Y S I R D T L			
UniRef90_Q2RJK0	R P N W A G W V L N E P G V V G V A A A L V R S E E A I R P A V D Y L L G Q I L			
UniRef90_UPI00016BFC88	V A M D A S N L K N Q P G F L R M A N E A V K C O D A A D E A I F S F M L G K I A			
UniRef90_M5FPF7	K H I N Y P P D P N G P Q K L I D K L K F D A N L S P A F E Q V F G K T L			
UniRef90_UPI0001FE6E5C	K P V S Y P K T K D A L P L V D K L Q Y H P M F K G A I M Q I F N K T L			
UniRef90_M7NML7	K S I D D Q K L R N I H P Q A R L A V D V I S Y E S S I E R A I Q F A T G N A L			
UniRef90_I2F2N0	S F R N F S R V E S H P G F I N Y A A R L V E I P D G F E K L P V Y L F G N S I			
UniRef90_T0NEV0	P N D R Q K A V E S S H H D A I D F V R N N L I N Y D S M F E K A V K Y A F G D T I			
UniRef90_F9QCF1	R D D H L L A I Q G Y P G F I G I A S D L V K Y A P E F K I L L A K F L L G N I I			
UniRef90_K6PYU0	S A P A D A D R R L D H Q A V A W G I D A V R F D P A L R P A L A N L L G R I I			
UniRef90_A5DN12	P V V S Y P D G Q V H K C I P L I K K I K Y S D E N L E P V M R Q F G R A L			
UniRef90_E1ZGE5	L G T V R E K K Q P P E G V K R L F D L V K C P D D R L R V A F Y F A M R D T V			
UniRef90_M3J5A0	N H I E Y P D S H E F Q C I P L I E K L K Y N D S V S K A M N Q V F G K A L			
UniRef90_M1VFG1	S Q I E Q S K F P A P E G V P R L F D L L D I S N A A G R L P F Y F V L R N T L			
UniRef90_M0T0G6	P V I E K L R L T L G G T A Q L V F D V I Q Y P F Y W I H N I S L Y A V G N T L			
UniRef90_Q2H0J5	F R A S A Q T V A T A Q R V V F D L A L S L V G Y D N E V S A M E Y V F G N T L			
UniRef90_A0A024TB86	L H N K C Q G D R F N A P I P R L F D L V R V S K D K F R P A F Y F A L R D T L			
UniRef90_G0VD28	E Q P T L S A P P S Q E Y I L T I N A I E Y D L A Y E R A M Q Y V C G D S I			
UniRef90_W0TE78	R R I N E S V I H L A K Q L A P L A N L I I G Y E D D V A K A M E F I F G T S F			
UniRef90_E0NMR3	K L N F N L E P Y K S K G I L N Y A D S L I I E V D D E L K N I F S Y L L G K I V			
UniRef90_R4XG69	T R A A A E R G A A Q S L A P L A L S L G Y D E E V T A A M E Y V F G N T L			
UniRef90_Q6F1N4	S S P Q R D I K R A P G F V G F A N E L V E I E K D C Q V V L D Y I Y G T T I			

130                  140                  150                  160

UniRef90_UPI0004794EF4	V D T Y D S A T A L A K N N Y R F N I V T L E G D R I L P H G A I V G K T
UniRef90_E7MPU9	V V E D M E A G N E L S T L T K R L Y K I V T L G G E V I H R G S M T G G K T
UniRef90_W9WG06	I C D L K I A K D L C Y N R H V D A K A V T L G D N V I H K S G L M T G R G
UniRef90_W0I7W6	I V E N F E S A K A I G I G N Y R M V T L E G E L F E K S G V I T G G A V
UniRef90_O66878	V F A T L A D A R R E M G R C A V T L E G E L L E K S G A M T G G S L
UniRef90_K9P7V1	I C D N L N I A K Q I C F E M N E N V R T V T L D G S V I H Q S G L M T G Q S
UniRef90_S2K2L7	V V E S F D V A K S L Q N Y R C V T L E G E V F E K T G V I T G G K A
UniRef90_M1RS12	L V D N M K N A N E L G K I I N H R Y R I V T L D G E I L H I G G S L T G G V N
UniRef90_R5J8L7	V C D T A E E A R Q V A F R G S E R R R T V S I D G T L F E K S G V I S G G
UniRef90_T2MDB1	I V D T I D T A M S V A Q R V N R R R T V S I D G D V I S P G G S M T G G Q R
UniRef90_Q5FJJ8	V V T E A D V A L K I K E N S Y S G N I V T L S G E L L S R R G I T G G E N
UniRef90_U7VDX3	V C D L T A E E A R Q V A F R G S E R R R T V S I D G D K V D R K G A L T G G Y H
UniRef90_UPI0004623B2D	V C D L T T I A A A Y V K S H G I N T I T L D G D K V D R K G A L T G G Y H
UniRef90_V9DB30	V C D N L L D I A K E L C Y R R H V D A K A V T L D G S V I H K G G L M T G G R G
UniRef90_A0A022R8F2	I C P N L L D V A T R I R T D G L D C T L E G D Q V N K K G G M T G G Y Y
UniRef90_U1GAB5	V C D L L N T A T K Y L C Y E R G V D A K A V T L D G D V I H K G G L M T G G R
UniRef90_A0A058Z3M0	V A N D M Q H A S R L A Y G A R R R F R V V T L G G E V I D T S G I M S G G G N
UniRef90_W1Q7K1	V C D N M D V A K Y V K W E K K V D V K V V T L E G S L L H K S G L M T G G L T
UniRef90_SOFN40	V V E N L D A G I G A L K K F G Y T F R I V T L E G D I L E S S G A M
UniRef90_K9YTU1	V F E T L E K A R P H L G K T R I V T L E G E I L E S S G A M
UniRef90_UPI00029A19F1	V V G D M E E A R T V G I G N V R M V T L G G E L L E K S G A I T G G H Y
UniRef90_G8ZR43	I C N T L E I A R D M K W K R N V R S K L V T L E G T L I H R A G L M T G G I S
UniRef90_B5ZAX3	A D N L L K N A I I L S E Y T Y K N Y K V V S L D G D V V F G G A I S G G S N
UniRef90_Q011Q9	I C R N L D V A V T K A A S A L N C V T M D G D T V S N K G S M S G G Y H
UniRef90_Q895M7	I C E D M D K A L N I A K K L N Y R Y K I V T L A G E I N A G G A L T G G S V
UniRef90_C4XDU3	V A S D I E N A N K I S S I L E R R Y M V V S L D G D T I R S G G V I I G G A K
UniRef90_R4XAV1	I C D D L L D V A R H I C Y E K R A E V K A V T L D C T V I H K T G N L T G G H T
UniRef90_O28714	V V D R I E T A K R L M D R G R F R F V T L D G D V I V E K S G L M T G G S A
UniRef90_G4VHB4	V C E T V E H A R Y V A Y H M G D R K K T V S L E G T L F Q R S G V I S G G A S
UniRef90_F2JS80	I V N D M K N A S R I A K K Y H Y K Y K I V T L E G E V F N S G G S L S G G S M
UniRef90_Q7U9B7	V F S D L S S A R Q Q L G R S R A V T I D G E L L E K S G A M T G G S L
UniRef90_E5S134	V C E S D A R N L A F S G A E R H R A V A L D G T V F E K S G I I S G G A G
UniRef90_M4B2S4	V C E S I D I A R D L C F R Q N E K V K A V T L D G Q V V S K N G S M T G G K T
UniRef90_U6IS06	V C D T V E H A R Y V A Y N M G E R K K T V S L D G T L F Q R S G V I S G G A S
UniRef90_A2BZM5	V F S D L S S A R D Q I G K R A V T L E G E L L E K S G A M T G G S L
UniRef90_M7PEX6	I C P T L D I A A Q Y S R S H N I T L N G D R S D K K G A F T G G F H
UniRef90_K3W6J9	L C P D L L D T C V Q Y A E Q S N M D C T L D G D M V H R R G A L N G G F K
UniRef90_S6EPW7	V V R D L T V G A R L A K K Y Q L N A I T L D G D R A D K K G A L T G G Y H
UniRef90_D3SQ87	V V E D Y E R A K A I G Q G Y R Y M V T L E G E L F E K S G I I T G G Y T
UniRef90_W9WM34	I A Q N L S V A A Q Y A R T H G L T A V T P E G D K S D K K G A L T G G H H
UniRef90_E7A2D6	V C D T D I A R S V V Y D K K V D A K A V T L E G T V I H K S G L I T
UniRef90_C4R276	V V L N L E K G V E L A S Q Y S I D A I T L D G D K C N K K G V F T G G S R
UniRef90_M3D511	V C V T L Q I A A Q Y A R S H G V S A I T A Q G D R S D Q K G A L T G G Y F
UniRef90_M7TTT6	I C P N L T V A G Q Y A R S H G V N G V T P D G D I T N K R G A M T G G F I
UniRef90_UPI000361F633	V F E T L L S D A R R H I G Q Y R I V T L D G E L L E S S G A M T G G S S
UniRef90_E3L531	V C R S L E V A G A Y M R S H N L N G I T S D G D K V D K K G S I S G G Y H
UniRef90_Q01CC9	V C D S H A E A K K L A F G G A Q R I K C V S L D G T L V D K S G R L T G G S S
UniRef90_R7IFU2	V V D N E A S R V A R D N G F R S K V V T L M D G Q V I N A G G S F T G G S V
UniRef90_E2ZL01	V V A D L A T R S E L R H I P G W T I V T L A G E Q V Q S G G A V T G G A
UniRef90_B8G556	I V D N F K N A T L I S K K Y K L K V V T L K G E V F N P S G A I T G G S L
UniRef90_UPI0002883994	V C D N M N I A R D V V Y D K Q Q D V K A V T L D G T I H R S G L I T G G
UniRef90_I4YFC4	I C P N L A I A A G Y V R S H G L S A I D L D G R S S D K R G A L S G G Y Y
UniRef90_G7E609	V C K D L D I C V R Y A E V S N M D C T L D G D L V H R R G A L N G G Y R
UniRef90_UPI0004560937	V V D T Y E N A V S L A K S G F R Y N I V S L D G Q R I L P H G A I G G S T
UniRef90_S8AGL9	I C K D E A T A E Q V R K S S H V D C T F E G D V F H S K G A V T G G Y Y
UniRef90_F0W7R5	V V Q S Y D D A I N L A K N T N F R F N I V S L D G Q R I L P H G A I V G G S T
UniRef90_G2RYY9	V C E N L T I A R E V A F G E T R Q R V T L N G E L L D N V G S I T G G G N
UniRef90_M0X823	V V D T L K E A T D L S S R T D R S L R I V T L L G Q V V D S S G T V S G G G A T
UniRef90_Q552D9	V C K D E A T A E Q V R K S S H V D C T F E G D V F H S K G A V T G G Y Y
UniRef90_C7LMR4	V V Q S Y D D A I N L A K N T N F R F N I V S L D G Q R I L P H G A I V G G S T
UniRef90_C4M777	V C E N L T I A R E V A F G E T R Q R V T L N G E L L D N V G S I T G G G N
UniRef90_U6PZ14	V V D T L K E A T D L S S R T D R S L R I V T L L G Q V V D S S G T V S G G G A T
UniRef90_B9L135	V A D D L A T V R R L L P Q L P P G W V I V T E G E L A R P T G S V T G G A T
UniRef90_E5BGJ8	V V E N Y D I A I Q I S K A N F F S G N I V T L N G E L V S S R G R I S G G D Q
UniRef90_Q7VEE2	V F N D L H S A R T Q L G V S R S V T L A G E L I E K S G A M T G G S F
UniRef90_S2KYM1	I V E N L D T A L K I V K N N M F M G N V V T L S G E L M S S R R G I T G G D S
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UniRef90_G0U381	F G N L E A V V V D T T E T A L A C V Y R L R E Q R L P P M T F I P P L D S V R G		
UniRef90_D7BH70	L A A L Q W V L T E D D R S A Q A A I K L L K Q K G G R A T F I P P L T L L R P		
UniRef90_Q6C188	G N S L F H V V V E D D D V A S K V I E Q L L R E K C G R L T F M P P L N R L I N P		
UniRef90_V4Y934	A G G L A H V V V A D D G V G Q S C I D H L K Q R N A G R A T F I P P L T M E D D		
UniRef90_B4UDF6	L G R L L Q Y V V V I V E S H S Q G V E A D Y L K T A A E G R A S S I P P L D T I I D V		
UniRef90_Q6CRP2	L G N F D S I I V V D S I D A T A H E C I T Y L K K Q R A G S A S F I P P L D T I I S A		
UniRef90_E6PGH3	F G A L S N I I V T T S S E D A E R G E F L N A R E A G R A T F I P P L D T I I Q S		
UniRef90_V4U6L6	G G K L F N V I V D T E S T G K Q L L Q N G D L R R R V T I P P L N K I I Q G		
UniRef90_I1BNA9	G G K L L Y N V I V E N E K T V G S Q L L D K G R L R R R W T L I P P L N K I I Q G		
UniRef90_A2BU14	A G R L L Q G I V V V D N D T A S R S I E I L K K K K A G R I L T F I P P L N R I I K I		
UniRef90_H8GVP8	L G R L L E Q V V V A R G D D A R E E I E E L K R V G G R A T F I P P L D L L R P		
UniRef90_Q6C5S3	L G K I I D S I V V V D S F K T A Q D C I A Y L K E Q Q G G L A S F I P P L D T I I K A		
UniRef90_B0DHC4	A G G L F N V V V E N E M I G K D L K N G K L K R V T I I P P L N K I I S P		
UniRef90_B7FTA5	A G K M D A I V V D T K Q T A F E C I K Y L R E Q R V G T A T F I P P L D S I I Q T		
UniRef90_UP1000185E261	G G G F S F L V V E E P Q D A T V I F Q I L R Q Q N L G R V V N L A L R V L E R		
UniRef90_J7S543	G G S L F H V V V D T D K T A S L L M R E Y K M K G G R V T F M P P L N R I I H E		
UniRef90_M7WGL1	A G K I F H V V V D S D I T A S L L V E K K C L K K R M T F I P P L N K I I A P		
UniRef90_B0S1M4	M S A F Q N I I V V R N E N D G K E L L I N F L K V N K I G R L T F I P P L N K I I K P		
UniRef90_F2E3E6	G G R L Y N V V V D T E T T T G K Q L L Q N G G L N R R V T I P P L N K I I H T P		
UniRef90_UP10003A668E5	L G N L L Q D I I V V R D K E V A K K A I N Y L T E K K V G R A S F I A L D L I K P		
UniRef90_E4ZHU7	G G R L L Y N V V V D E A S T G K Q L L E N G R L K K R I T I I P P L N K I I A A		
UniRef90_H2LIA5	G G R L L Y N V V V D T E V T G K Q L L E K G E L Q R R Y T T I P P L N K I I S A		
UniRef90_U5H9U5	G G R L L Y N V V V Q D E N V G A D L I K G Q M R K R V T F I P P L S K I I K A		
UniRef90_Q6CYH7	G G S L F N V V V D N E E T A S L L L I K E L F A T K G G R V T F I P P L N K I I H V		
UniRef90_E7FEF9	G G N M A I V V T S A V Y V A H D C I C I R Y L K E E R A E P E T F I P P L D Y I I D V		
UniRef90_UP10002B4401E	F G N M A I V V T S A V Y V A H D C I C I R Y L K E E R A E P E T F I P P L Q S V R V		
UniRef90_E0QGM1	L G R L E N V I I I Q R S I H A K A K A I E Y L K K E K L L G R T T F I P P L D V I I K P		
UniRef90_M7T1Z0	L G R F D S V I I V D T E K T I V D C I V S Y L K D Q R F P P L T F I P P L D N I I K		
UniRef90_V9K7S4	F G R I I N A I V V S T E K V A R D C I R Y L K E G R A E P E T F I P P L D Y I I E I		
UniRef90_G1XCH7	G G R L L Y N V V V D S E V T G A Q L L E N G R L K R V T I P P L N K I I N A P		
UniRef90_I4BV06	L G S R Q F I I L V N D E E D A R V C I D Y I K R A N V G R A T F I P P L N K A N P		
UniRef90_Q74ZH1	G G R L L F N V I V V D N E E K T A S Q L L E R G R L R K R V T I I P P L N K I I S A		
UniRef90_A7TQR4	G G R L L Y N V V V D N E E K T A S Q L L Q R G R L R K R V T I I P P L N K I I M A N		
UniRef90_Q6FS78	G G S L L F H V V V D T D E T A S I L L M N E L F R M K G G R V T F M P P L N K I I K		
UniRef90_UP10003600E9F	L G K L L Q S V I V V N S Y D D S V E A I T Y L K E N S S G R G S F I P P L D M K A		
UniRef90_UP10002BC8816	G G K L F N I I V V D T E D T G K Q L L Q K G G L R K R V T I I P P L N K I I Q T		
UniRef90_C4QZK9	L G K W D S I I V V E N A S A A Q C I H Y L K E N R S G T A T F I P P I N S V K V		
UniRef90_E1ZR9	A G G L Y Q V V V D N E Q T A K A L L H G H L R Q R V T I I P P L N K I I V S A		
UniRef90_R8BUM2	L G R F D S V I I V D S E K T G L Q C I D Y I K E Q R F P P M T F I P P L D N I I K V		
UniRef90_A9SLI2	M G R M D A V V V E D D S T G K E C I K Y L K E H R L Q P Q T F I P P L Q S V R V		
UniRef90_S9QH72	L G R L Q H V V V V E S R A K G V E L V E Y L K D A A E G R G S F I P P V P P P E R		
UniRef90_E3FUD4	L G R L Q H V V V I V E S R E K G F E L V D Y L R S A S E G R G G T F I P P V P G H E Q		
UniRef90_W4V8Z1	G G A L Q N I V V T S E E D A K R A I E Y L K R N N L G R A T F I P P I S S V K G G		
UniRef90_UP100035A2783	G G K L Y N V V V D S E I T G K K L L K F G E L K R R C T I P P L N K I I A G		
UniRef90_UP100036594D1	G G R L Y S I I V V D N D E N A Q A A I E L L K K R G K G R L T F I P P I N K M I I P		
UniRef90_K9RTG1	G G R L G Q I V V E D D S V A A G I E I L Y L K R E R G G G R V T F I P P I T K M Q S		
UniRef90_H2AM9	G G N L F H I I V V D T E E T A S L L M Q E I L Y L K R M K G G R V T F I P P I D Y I I Y N		
UniRef90_F7DH69	F G K M N A I I V S T V Q V A R D C I V K F L K E E R A E P E T F I P P L D Y I I D I		

90                    100                    110                    120

UniRef90_M0CZ31	R G L P S K P N D P G V V G F A R N I V E Y D A Q Y E P I F S Y V L G S T L		
UniRef90_G6DCD6	Q P L S R E T V A L A Q K I G G L A L D L I D F P P P S L R P A M S W V F G N T L		
UniRef90_F6SH99	T N E Q L R T I R E P N G V K L V I D V I K Y D L P A I K K A L Q F T C G N S L		
UniRef90_U7Q0T1	R Q A N F P Q G A K D A L P L V D K I Q F D K K F E K A F Q H V F G S T V		
UniRef90_J9MP04	L K A S A E T V A T A Q T I A P L A L S F V D Y D N E I A T A M E Y V F G N T L		
UniRef90_G0QHH2	R N K S A Q M A L K K K G V I D Y A S N L V E Y N K K Y E K A M N N V F S D T L		
UniRef90_B3TAJ6	S R P Q G R S L A D N P G V I G F A H D L L D Y D S E I D T A V R Y A G R N T L		
UniRef90_M2QG27	N V M P D R K L Q T A M R L V R L A L S V G Y E Q E V A N A M A F V F G D T L		
UniRef90_D9SLC7	N V I S V D K I A N M K G Y L G I A S E L I E Y E A R F K K A I D F V F G R T L		
UniRef90_C4YQ39	N I E V E Y P D S H E N Q C L P L I K K L K Y N E Q V Y K A I N Q I F G K T L		
UniRef90_E3BQY0	N K I P D R V I K S M D K V L G V A E E L V T P D K D I S E V I N Y L L G N V I		
UniRef90_Q6FUN1	A T P R M P V P E S E T Y T L A I N T V E Y K D D L V R A M Y V C S D T I		
UniRef90_K0T0G4	P S P E S T E R A E N D K R Y R L A A D V I R A N D E Y R N A V A L Y A V G N T V		
UniRef90_B5RUJ6	D S L N L N Y L R S V I H P A Q P G I D I L E Y D D T S L E Q A L Q Y V V V G D T L		
UniRef90_C5DBH6	N K V S S M M A L D T K G C T L A I D A D Y E R D L E R A M Q Y V C S D S I		
UniRef90_D8LRP2	K P I S E S L R S L G P S H R L C A D I M Q G G D D G V R K A L F A V G N T I		
UniRef90_G0S6B9	K Q V K M P R A H D A Q P L I S K I E Y D P K F E K A F Q Q V F G R T L		
UniRef90_V2Y9D9	S M P A N V P A S G D A P L L S K I S Y D P A H E K A F H Q V F G K T F		
UniRef90_G4T7M5	K A V Q Y P E V D E V E P L I K Q L E Y N P L Y E K A L Q Q V F G K T C		
UniRef90_R5BMF0	Q A I N T P A L N E S G V L G R A V D C I T F D E T Y R G V F T Y L L G R T L		
UniRef90_R9P9I6	K E T D F P T T Q D A V P L V K K L R F D K A L A P A F Q Q I F G R S I V		
UniRef90_C4Y429	T P T T F P E L E G H E Y I P L I K K I K Y S N K K V G K A E Q V F G K A V		
UniRef90_T5AKW4	R Q V N L P R S N D A V P L I S K I S Y D S R F E K A F Q Q V F G K T V		
UniRef90_H3D891	S P L N E R L R T V P G A K M L V D V V Q I N A N Q L R K A V H F V C G N T L		
UniRef90_E0S7Z1	S E P S L P K E S V P Y L Y N L V K C P K E F R K C F Y F A L K D T L		
UniRef90_A8P2T7	R T I D P A K L A T A Q R L V R T A L S L V V Y E H E V A K A E F V F G E T L		
UniRef90_H8MQX8	A R G Y V I E P D L S R P G V L A H A L L K E V S C E P A L E P V L K L L G D V V		
UniRef90_J7SB46	R T L N D N I V N M A K S V A P L A L N L I G Y E E V R A M E F I F G S S L		
UniRef90_F9X8L7	Y R A P A D R V N N A Q Q L A P L A L S L I G Y E H E V E K A M E F V F G S T L		
UniRef90_W3X436	N A V S N A I K S Q Q G A R L T I D T I D F D S S L E R A M T Y A C G G S I L		
UniRef90_UP10004739B1C	Q K K N Y F E N N R E N G F I D K A I N L I T F D E V Y S D V F R Y V F G D T L		
UniRef90_L0A7J5	R S R R D A V L L R E P G V L G N L A E L C P S A P A I V A N V L L A D S L		
UniRef90_V4Y4R1	R G L P S L P S R D G V V D F A R S L V D Y D D R Y E P A F S Y V L L G A T L		
UniRef90_UP100034F768C	Q V I D K R I V Q I A Q E I G G L A L D L I S F D S R L R P A M A W V F G S T L		
UniRef90_E1F887	Q Y R K Y I Q I N V P P G T V L F L D Q L H I K N E A C R P A L W H V V R D T L		
UniRef90_W5X8G7	A S Y E L K R L L G E R G I V G R A S E L V S C S C R A H R P V I D S L L G R V V		
UniRef90_A9S6L3	S G V P E R A L A A A K K L V G T A L S L V G Y E E E I E A A M A F V F G G T F		
UniRef90_A2SS75	Q P P L P P L A G N G V V D Y A I N L I D F D P E Y R D A F N L V F G Q T V		
UniRef90_G3JD2	N A V N T S V K G I T G A R L A I D T I N F D S S V E R A L S Y A C G S S V		
UniRef90_P41003	F V A S A E R V G A A K K I A Q L A E L I G Y D D E L L P A M Q Y V F G S T L		
UniRef90_A8XX62	V N D Q H E M D K P T K L P G K R L F D K V Q C K D P D I R C Y Y S I M G D I L		
UniRef90_R6SU87	Q N V T E E M R Q A A G F A I A V A D T L V Q C D A R F S D V V S A L L L G R T V		
UniRef90_Q5A021	D I N S H L R S I H P A L P G V D I I E Y Q D K S L E P A V N Y I I G N T V		
UniRef90_UP10003F15B4D	K P I N E R L R E I K G C K M V I D V I K T Q F P Q L K K V I Q F V C G N G L		
UniRef90_G0U381	K T A D D R L R T L G T C K P I V D V I R Y D D S I E L A V Q Y A L Q Q T L		
UniRef90_D7BH70	A A R P R R D W S Q E K G V R G L A R E L V E V R G Y P Q V G A T L F G E T L		
UniRef90_Q6C188	E R R K Y P E A E N V F P L V D K I S C N P E Y E P A V Q Q V F G K T I L		
UniRef90_V4Y934	R G L P Q K P R D P G V I D F A R N L V E Y D D T Y A G I F S Y V L L G S T L		
UniRef90_B4UDF6	A S D P T E A D R A Q P G F V A V C L D V V T F D P S Y E K V A R F L L G D A I		
UniRef90_Q6CRP2	N P P S L P V S N V Q G C L L T L N A E Y E G Y L E K A M Q Y V C S D S I		
UniRef90_E6PGH3	R D A R A M E L L S S I P G V I D Y A H R L V R T D A R Y E G V V R F L V G N V L		
UniRef90_V4U6L6	H T V P P R V Q Q A V V V R L V G I A L S L V G Y S D E L K T A M E Y V F G S T F		
UniRef90_I1BNA9	F R V S A E K L A A A E K I A P L A L N I G Y D E E V F A A M E W I F G S T F		
UniRef90_A2BU14	H R K N R F E N S K E N G F V D K A F N L I D C D D V Y T D V F R Y V F G E T V		
UniRef90_H8GVP8	R P R R D A A L L R E D G V V G N L A D L C P T D P P L V G E A I L A D T L		
UniRef90_Q6C5S3	M P V N S S L R S R L R G A V L A D A I S F S S Q Y E R A F Q Y V C G S A I L		
UniRef90_B0DH4C	F T L H P R K L E A A Q R L V R T A L S L V G Y E E E V A K A I A Y V F N D T L		
UniRef90_B7FTA5	P S P D S T E R L R A H V A K D L V A D V I A C Q D D A V H R A V Q Y A V G N T V		
UniRef90_UP1000185E261	D L T G F M Q R S D A F P L P R L I D L I S F K K E R Y R V A F Y K A V G D T V		
UniRef90_J7S543	D S G V T F P P Q D Q S A A C T P L L K K I K Y D A K F E K A V K H V F G K T I L		
UniRef90_M7WGL1	Q M P N L N Q I K Q A K E I G G Y A L D V V Q C E P E F I P I M K Y V F G N V L		
UniRef90_B0S1M4	R N L N Y V N D N L V L G H L N Q F I K S D E K Y R D I I D Y F A Q K T L		
UniRef90_F2E3E6	G T I P D R V Q Q A R R M V G L A L E L V G Y D E E V K N A M A Y V F G S T F		
UniRef90_UP10003A668E5	N K R E F K Q N I S G V L G I A A D L V K I D S K Y K K V V D F V L G N L L		
UniRef90_E4ZHU7	F R A S A E K I G A A Q R I V D I A L S L I G Y D E E V T K A M E Y V F G S T L		
UniRef90_H2LIA5	K T L N D K V I H T A K R L V G T A L S L V G Y E S D L R K A M E Y V F G S T L		
UniRef90_U5H9U5	S V A S K E T L R T V S K V S P L A L S M V G Y D D E L N A A M E Y I F G S T L		
UniRef90_Q6CYH7	D T N F T Y P N N L E K N Q C T P L I K K I K Y D V K F E K V I K Q V F G R T L		
UniRef90_E7FEF9	P I L N E R L R E L V Q G A K M V V D V V Q C S Q N Q L K R V Y Q V C G N S L		
UniRef90_UP10002B4401E	K S I D E R L R R D S S S V K L V Y D V I R Y P S K L E K A I I F A V G N T L		
UniRef90_E0QGM1	S F L N Y N D K G V K A I D V V S Y D K K Y E N I V S N L L G R Y V		
UniRef90_M7T1Z0	L P A A N T A V K G I S G S R F T I E T I D Y D K S L E R A M T Y A C G N S I		
UniRef90_V9K7S4	K P T N E R L R E L V K G A M M I D V V Q S V S P Q L K K V I Q F V C G N A L		
UniRef90_G1XCH7	Y Q Q A A Q V E R V E S A H K L A P L A L S I G Y S E E V A K A M E Y V F G S A L		
UniRef90_I4BV06	Q R R P S V I S D D I N V I G W I I D L I S Y D V A W E R G V M H L L G N L L		
UniRef90_Q74ZH1	R V I N T D A L N K A P G A V E L A L N I G Y E A E V A R A M E F I F G G S L		
UniRef90_A7TQR4	R K L N D K T L N I A K E I V E L A L N I G Y E E D V K A M E F I F G G S S L		
UniRef90_Q6FS78	G N Q N I D Y P S D P N I P C T P L I K K I K Y D M Q F D C Y V V K Q V F G R A L		
UniRef90_UP10003600E9F	N Q D P P V H L N G N P G I L G K A L N F I E C E E E Y Q Q V I E M L L R N V V		
UniRef90_UP10002BC8816	Y P V P P R H Q N A A A R L V G V A I S L V G Y D E E L K S A M E Y V F G S T F		
UniRef90_C4QZK9	S P V S P H L R N I H P E A R P L I D V I E E Y N S S L H N A M A Y V C S N T L		
UniRef90_E1ZRU9	H S I P P S A V A V A T R R M A G L A L E L V G Y D Q E L S A A M K Y V F G G S I V		
UniRef90_R8BUM2	N A V N S A V K G T S G A R L T I D T I D F D Q S L S R A M E Y A C G S S V		
UniRef90_A9SLI2	K P V H E K L R A L G G S A K L V Y D V I Q Y P F N A L L E R A V L Y A V G N T L		
UniRef90_S9QH72	L P P E I Q P D R S R P G V L A R A L D E V T C E P A L L P V V R L L L G D V I		
UniRef90_E3FUD4	L P P V V A P D F S P G V L A S A F T E V K Y E E S L Q P V M R L L L G D V I		
UniRef90_W4V8Z1	K Y L D D N Q L K G H E G F I G V A S D L I E Y D E Q Y R G I V L S L L G K V V		
UniRef90_UP100035A2783	R S I D D A T L K R A E S L V G T A L S L V T Y D K K F H P I M Q F V F G S V F		
UniRef90_UP100036594D1	V R P K G K S M N D P R T M G I I N H I E F P K E I E A A V T Y V F S D T V		
UniRef90_K9RTG1	P R N L P N L P G L V D Y A L N L I E F E R R L L P I F A Y V F G Q T L		
UniRef90_H2AM9J	D P N T Y P P A D Q Y S S F T P L I K K L K Y E S K F E G A M K H I F G K T I L		
UniRef90_F7DH69	K Q I N E K L R E I K G A K M M V D V I Q T V S A P L K K V I Q F V C G N G L		

130                  140                  150                  160

UniRef90_M0CZ31	V V E D M E T A R S L M G D F R M V T L D G D L V E R		
UniRef90_G6DCD6	V C S S L E A A R R V T F D P R V C R S V T L D G D D V F D P A G T L S G G A R		
UniRef90_F6SH99	V C E S A E D A R K V A F G Q K H K T Q A V A L D G D L F Q K S G V I S G G A T		
UniRef90_U7Q0T1	V C P T V S V A A Q Y G R S H G V D G I T P E G D T T K R T G T M T G G Y V		
UniRef90_J9MP04	I C A D A E I A K R V T F D A D V V K M R S I T L Q G D A Y D P S G T L S G G S S		
UniRef90_G0QHH2	I A E D L D S V K D V D G V R V V T L D G D D V M S R G G A M Q G G K K		
UniRef90_B3TAJ6	L V Q S M G I A R R N M G G V R L V T L D G S V I E S S G A M T G G S A		
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90                    100                    110                    120

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UniRef90_G3AHY6	K P I M E R L R T L L P G A K M M V D V V K R C A G Q L K K V L Q F V C G N A V		
UniRef90_M5C195	D P V N L H H L R S L A T P G L D I M E Y E D K S L E N A M N Y I A G D A L		
UniRef90_F0H273	P R V T P V Q V A A A K K I A P L A L E L I S F P A E A R P A M E F A F G D T L		
UniRef90UPI0004575D58	N K K A R V D E K E V T A M A Y D L V S Y D D R L E N I I N H F L S N T V		
UniRef90_A8I8N8	R D T A Y P E T N D A I P M I S K L R Y V Q R F D K A F K H V F G K T L		
UniRef90_D6WWG2	P T M S P A V L E A A N R L A R P A V D F L Q Y D P R V A P A V Q Y A F G N V F		
UniRef90_A0A026VX58	N K M S N S V V K T A E S L V G G A L D Y L K Y D K K M Q V V M E H I F G N V F		
UniRef90_W2SFC6	L K E K L R S V Q E L P N V K L L Y D V I D L S P E I S K A V L F V T E N T L		
UniRef90_Q55Q12	P P R K Y Q D A D G R A I L D V F D Y D E Y Y D A V F R N V F A C T A		
UniRef90_A0A034WPC9	T K I A A E K L A A A H R V A P L A L D L V G Y P E D V S A A M A Y V F G R T F		
UniRef90_E2AIG6	K I H D Y P D D P D S I P M L S K L K Y D E Q H D K A L R Y I F G K T L		
UniRef90_C9ZPM3	K D I D Y P E T T D A P M I S K L N F D P I K F A G I V A E L F G N T A		
UniRef90_T2M2Q5	K E L I H Y P T S P D V L P M I S K I N F D P I F K P A M Q I L A F G K T L		
UniRef90_G3P5B9	T V T R F G E G V E C N S L A D H I C D P K F A G I V A E L F G N T A		
UniRef90_K7LXH6	S P L N A R L R E L P G A K M M V D V V K R C A G Q L K K V L Q F V C G N A V		
UniRef90_B0XG14	L L P K L K V V S T P E G V P R L F D L V K V Q D E R M K L A F F A A L R N T V		
UniRef90_A9A0M3	R I H D Y P E D P S I P M I S K L K Y D E E Q Y D K A L R Y I F G K T L		
UniRef90_W6L618	Q E I D I S A L T G N G H A D R L V D H L A V E T G Y E K M V H A L I G N V L		
UniRef90_M7ZH89	D L V D D R F C T F G G T C K P I I N V H C E A G V E P A L R F V L G R T L		
UniRef90_E9BFE4	E V G S R M A K P F Q C P N P R L F D L I Q P T N P K F R S V F Y Q A V R D T L		
UniRef90_Q5TS71	S K Q K Y P P D S A S V R P L I S L L T Y D G C Y E P V F R H I F G K T L		
UniRef90_E9IUAO	R F M D Q Q T I T M A E K L V G P A L S L I D F P D E I R P A M T W I F G Q I F		

130            140            150            160

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

UniRef90_Q1PZG8	Q G Q
UniRef90_S9TS49	
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UniRef90_C4Y3W5	G Q K S
UniRef90_C5DWK8	N N K S
UniRef90_D8LEU4	D E R
UniRef90_G2X3I8	
UniRef90_H3B892	D <span style="border: 1px solid black; padding: 0 2px;">L</span> R
UniRef90_A7EP81	P D G R G N
UniRef90_L1IBV8	S H <span style="border: 1px solid black; padding: 0 2px;">L</span> Q S
UniRef90_S3D7T2	P D Q K G N
UniRef90_F4PGN9	
UniRef90_S9U2E7	S <span style="border: 1px solid black; padding: 0 2px;">V</span> Q S R
UniRef90_T1JGX2	Q Q S G S
UniRef90_C9ZY9	A T R S R
UniRef90_I2H3K5	N N K N S
UniRef90_A0A024JN37	
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UniRef90_L7M269	D
UniRef90_D6X4W0	N S N R S
UniRef90_A7APV2	K A R K
UniRef90_K1R916	A <span style="color: red;">H</span> T N S
UniRef90_A0A058Z213	Q S
UniRef90_H0UMK9	S <span style="color: red;">H</span>
UniRef90_A0A034W2Z9	P K G S N
UniRef90_H2YJF6	P K
UniRef90_Q4D0W6	T P R
UniRef90_F0ZPY7	
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UniRef90_B7GAL2	N Q
UniRef90UPI000462377F	
UniRef90_G1SPE4	S Q
UniRef90_V9DLA5	
UniRef90_I0YIK0	
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UniRef90_F9MT15	
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UniRef90_W6KF52	D K R N
UniRef90_U6HMJ9	
UniRef90_S9TVR3	D K R N S
UniRef90_C4Y3G7	K Q G S S
UniRef90_F0YFI0	
UniRef90_L7K0F5	
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UniRef90_E9GJ33	D
UniRef90UPI000361BC37	Q R
UniRef90_B7XIB6	E N K <span style="color: red;">H</span> E <span style="color: red;">H</span>
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UniRef90_A0A059F221	
UniRef90_G6CQ53	D
UniRef90_D1AYK7	K N K
UniRef90_S9WAZ0	D K R N
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UniRef90_I1LYK3	
UniRef90_G3AHY6	S Q K S
UniRef90_M5C195	P Q
UniRef90_F0H273	K S R K S N
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UniRef90_A8I8N8	G N R
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UniRef90_A0A026VX58	
UniRef90_W2SFC6	D T K R S
UniRef90_Q55Q12	
UniRef90_A0A034WPC9	N T S R S
UniRef90_E2AIG6	N T <span style="border: 1px solid black; padding: 0 2px;">L</span> R S
UniRef90_C9ZPM3	E S R S
UniRef90_T2M2Q5	D <span style="border: 1px solid black; padding: 0 2px;">L</span> S K S
UniRef90_G3P5B9	Y <span style="border: 1px solid black; padding: 0 2px;">L</span> R T R
UniRef90_K7LXH6	
UniRef90_B0XGI4	
UniRef90_A9A0M3	D Q
UniRef90_W6L618	
UniRef90_M7ZH89	D S R R S
UniRef90_E9BFE4	A P R
UniRef90_Q5TS71	S P T A S
UniRef90_E9IUA0	A K S G S

1                    10                    20                    30                    40

UniRef90_E2ABT1		H D R L F N L C K P D S R Y N V A I T K V		
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UniRef90_T1L479		H K R Y N M A I T R V		
UniRef90_UPI0002C3E045		F G M V A E N I T C K D E L Y T A V E A I		
UniRef90_B4GHG3		D P T H K R Y N V A V T K V		
UniRef90_UPI000252BB97		S V R R V L Q H F R D H N L N G Y H G I L L D L F K C D S V Y F S A V E V A		
UniRef90_F1KRD2		L H E L L I Y H L K R T K I K G I H G V L G D L G S I D P K Y E K A F L I A		
UniRef90_A5KB20		K N A N A L T G I L N T L G T F L K F D K Q Y E K A I L K A		
UniRef90_P47540		G L E T V A R L A E E E R I S G C Y G P V Y S L L E K D P K F R Q A V E V A		
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UniRef90_C2CH54		S V R K V L E T F R Q G S Y K D L Y G Q V I E N F D C D T S I H T A V E V A		
UniRef90_F1KRD4		Q E L V E N F K K A Y P G V Y D R L I N M C P I S N R Y N V A I T K V		
UniRef90_T1HYT8		S I K Q I L K Q C E T D R V K G Y Y G L L I D A I D C N K S F Y T A I E S A		
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UniRef90_M4SKW1		V R V V L A A G K L G K L N I K A T L V A D A F T C S S D L A S P L E A Y		
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UniRef90_B7Q750		R G K I K G F F G R V S S I C G Y D D K Y A M A V N A A		
UniRef90_H2VGK3		K G M F P G V Y G R V V D L V E P Q N K Y E I G L S V L		
UniRef90_T1ASE3		K K V I G P V C Q L F K V D P K W D R A I E E A A		
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50            60            70            80

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

R L F H V I V D T D R T A A Q I L N H F N H M K L G E I S F M P L N K L I S  
L G S M E A L L V R D S A T G R K C I V R Y L K E K K I S T E F L P L D R M V P  
M G A A K Y V I T S D E K V G G L L S T A E R S V S V I P L S K I R V  
L G R L Q W L L C N S D G D A L E A V A Y L K D S G G R S F V L Q N  
L G K A E A V A V A S G Q D A I S A L E L L R S E D L G R A G L L I G G  
L G A V D G I V T V D G V A A V R A L E A L K S G D G G R A L I C G G L T G P  
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L P Y L N Y Y V V V E N L E E A Y E A I Q L L G R S Q K G K A N F I N F I L D A F K E  
L G N R N Y Y V V K S S D L V K D I I K D G N G T F I P L D K I K Y  
L G A L Y S L L V E K R E T A A E I M R H V R Q G S S G K A N F I V L D A I S P  
S S D I K A I V V K D F A T L L G I L A E F A R S K N L P K L K I I P L D A I P K  
A G G L F N I V V D T D E T G K Q L L Q K G G L R K R V T I I P L N K I Q T  
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	90	100	110	120
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UniRef90_UPI0002C3E045	K D E M E N S S R S E N T N K R L I I K E L E F S D E I R K G V Q F V F G N A I			
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UniRef90_W7T3Q8	K P V S S Y P D S A D V V P L L S A A L T Y P R H V D K A M R Q I F G L K L			
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UniRef90_D6GVZ9	S Y N L D K V D K E G V I D Y I I N L V N F S E S Y S A A M K F I F G D T L			
UniRef90_B9T1A8	K P I I E R L R T L G G T A K L N Y C T F D P V L E K A L F A V G N T L			
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UniRef90_T1HYT8	K D Q R Y P S S E K F D K A M R Y I F G K T L			
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UniRef90_M4SKW1	D N V K Y P N T T D A E A L I N L L K Y D K V E K G V R H V F D K I L			
UniRef90_A0A016U9G1	H P I N E R E L S Y P K G V K L V Y D V I Q C N H P A A R K A L Q F A S G N A L			
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UniRef90_B7Q750	R D V E P A V M K K A E S L V G K A L S L V D F T P V V A S A M K Y V F G T T L			
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UniRef90_T1ASE3	R K Q E N K K D L D S L I S H I T Y D K K F A K V A E Y V F S N V Y			
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UniRef90_W5NFK9	R P L N E R L R E V K M G A K M A V D V V Q S A S P P L K R A V Q F V C G N G L L			
UniRef90_B6AH99	S N F N N F L R C L C Q H R S I A L D N V H I S D E R I E P A L S F V L L Q D T I			
UniRef90_R7LYR0	K A P E K F E R P K I D G V I D Y A I N L I N F E D K Y R D A I Y Y G L G E T L			
UniRef90_M4X819	E N V T Y P N T T D A E A I I K L L K Y D Q K V E K G V K H V F D K I L			
UniRef90_I4C0U7	F E S N K E G S P G P E D A I R L S E I V S F R A G C E E L G S F L L S D C F			
UniRef90_E0S987	K E E N E I E D S N V I S L T S Q L K C N Q Q Y K P L L R Y I T K N F Y			
UniRef90_D0A4G9	P K A K R M A N R M N G F V A V A K A D L T V V K D E A H R V I A D Y V F G N F F			
UniRef90_H3F6Z4	P E V R Q V D D E D A R S M I E I I N F D E S V R P A F E F I F G K M A			
UniRef90_G0UX17	S K A K R I A A S K M G A F V A V A K A D L T T V K D E Y R I L I A E F V Y G N F F			
UniRef90_T0MD79	K N E I E I E G L E S L S S K I I C D N K Y K K L V I Q F I T R N T F			
UniRef90_M7NM98	V K I P V E K I K R A P G K V N L A L D L I N Y G K N V K A A M E Y V F G S T V			
UniRef90_E1ZHP2	P D S L R H Q L Q R R G V G K L A V D L V A P K Q E G T D R V F Q M L L G T T I			
UniRef90_E3M171	P R E K N F G K R P N A R P L L E V V D Y D A K F D K V V Q S I T A N V I			
UniRef90_H3DSN0	Y L P A I K K I E A E K D G G G V A P R L I D C D D K Y K P A F F F A V I N S A Y			
UniRef90_C5LD22	R I P T P P Q Q I S G A K R A A A P A L D A V D C P E C Y T K V V E Y L F G A T F			
UniRef90_Q7RJK1	N L K P I M L N N E Q N Y I H R L I D F V K F K N N I Y K I C F Y H I L K E T L			
UniRef90_A0A059YE65	E E K M I D D E N M L P L W K Q L E A D D K F K D L L K Y I T R N T Y			
UniRef90_D2VX81	F E K S E I L A L A E K R G A Q Q L A N L I S Y D K K V E N A M K Y C F G N T L			
UniRef90_A5JZH3	R D V N E K T V E E C R K Y V G L F L D I M E Y D K K L E K L I K Y L F N G T I			
UniRef90_A0A059EXM4	K K E C L I D K L I F D K K I E K I K L V F S D S L			
UniRef90_F0YLT2	P P K V S M P D D A L A D V V P L R D L E R R G G P D V D A L D V V F G K T L			
UniRef90_Q4N620	H S N A D S G Q Q C G K Y G F L P N S K D E N Y E K I V K V L N Y Y T R D V L			
UniRef90_X0SGU0	F V D K K D L S I F D C V K G R L A E F V K Y E S K Y A P L M W N L L G K T I			
UniRef90_T1GMH3	K I Q D Y P E D P D S I P M I S K L T Y E E Y D K A L R Y I F G K T L			
UniRef90_UPI00017450E0	N G G T E R Q F M P N G G V A W A L D K V K S Q P H V Q P L V E H V L R N V L			
UniRef90_S9VQB0	A H S I D A R K K E E A Q V H V A K D L A Q F S D P S L G H L A E F V F G N F F			
UniRef90_G0MVT9	R A L R A Q K H N P F C P K P L F D Q I D F P G D A L R K V L Y S Y L G N T L			
UniRef90_J9FP03	F D I K N K L L D L G Q G K V W Y A K D L I E Y D P E F E P A M N F V F G G A F			
UniRef90_H5SKN4	A G A E P P A P A G V E G V V G W A R D L V R C P P L V E R S V R A G L H G T L			
UniRef90_Q8SQJ6	R E S E E V K V D P D V I S L T S Q L R C G Q Q Y K A L L R C V V K D F Y			
UniRef90_X1DAA7	Y A T L S S V Q G E G V L G V A A E L V F T T P E L R P A V D L L L G R T L			
UniRef90_Q0YTQ3	S A A G E Y K A L N G A E K T L D V I D C P P E L L Q A A L C L A L G K S Y			
UniRef90_T1A7L7	A R P K G K S L I A A Q S A V G F A I D L V K F D E S L R P A I S Y V F G E T V			
UniRef90_M4V939	K H L Q G N P K S E T G V I D L L K N V V N S N E I Y Q S K V S E I L D G V A			
UniRef90_UPI00036CCD7E	T Y D V E D G S L F D H V K S K R E Y S A L K Q L L G N V Q			
UniRef90_R1D653	T T A S P A Q L Q Q V H K L V G A A V S L I S C A A E L Q P A R R A V G R R T P			
UniRef90_T0L529	K Y I K N D L I R K V K N E G G I A I D L V E F D S K Y K K A M E H V F N G Y F			
UniRef90_L2GLD4	L E P N R V P Y S C I N A L D A I S F N T K Y D K A F K H I F S G F Y			
UniRef90_UPI000365BA83	E P P P R P A L P A G A S W A A D R V R A P E P L R P A L E H A L R D V V			
UniRef90_V6LR19	Q Y L N L S L P D D S V Q L S S L L S V D D Q F Q T L I Q C L F G R V I			
UniRef90_H5WZD7	V P S G W P A L P D G A R W A R D V V R A P D A L R G A V E R A L Q R V I A			
UniRef90_Q7UQV4	R R P D K I R L D G L A G V I G R A D K M I D C E V E L E P L V R H L L G N T W			
UniRef90_UPI0002C3E0A8	K D F Y E L D D N I L K S L G A S F V Y N N I K F S D K Y D S V F R F V L N N T L			
UniRef90_Q5CTJ4	D K R G N S T V M E A N M R S L A K D N L H S S D E R I L P V L E F C L F G V I			
UniRef90_C4LTU9	K D F F E L D E E I K D I G G F A K N I K Y N D K Y D S V F R F V L N N T L			
UniRef90_B2HJ8	D A N D H R A A G G L P S G T L W A L D L I E V P S R L R P A M T A M S G V V			
UniRef90_I1CGT4	S S D A I P I I S K L Q Y D E Q Y Q H A F E Q I F A N T I			
UniRef90_B3S903	K D I Q Y P D S T D A V P I I H R L E C E D K F K P A L K Q V F D K T L			
UniRef90_V5T9S5	P N V G A H L L V Q G H Q A R R L A A H C V Q H N E K F D R A V G F L L S G T I			
UniRef90_E0S516	F C L S A S V L K E I E S R R G G V S M N L L R F D N S V R K A I E F V F G N F F			
UniRef90_A5GAU8	F Q L V G E R L V V P G A D D L L V T I A D G F K A F V E P L L A N T R			
UniRef90_UPI00036FB787	A G S A Q V Q R I A L P E G A R Y A A D L V T A P E S L A K A V R H A L E N V V			
UniRef90_J9SDQ4	D R R G E I A L P D G A R W A A S V V D T R P E I R G A I D T V L A D T V			
UniRef90_D5UD23	A V A D L P S G V E R A V D L V Q A P A A V R D A V R A L L A D V V			
UniRef90_UPI00035D236C	Y L P P A E L L P S G M L L A A D L I E A D D K Y R R L V A Y L L E K V L			
UniRef90_L7JWV8	S D N K Y K G N L L I Q K I K Y R E E H R N A F Y F L F N N Y Y			
UniRef90_V6TQ43	P H L Q D I D S N C V P L A S L V V S T A D E T R P A I Q Q A L G V S Y			
UniRef90_I3D337	F N L T L P K I S G I V G V L S D Y V D C D A E Y S A L K T F L F G N I V			
UniRef90_K4BIK2	Y P V P P R H Q N A A A R L V G V A I S L V G Y D E E L K S A M E Y V F G S T F			
UniRef90_UPI0003B53E93	Q A A P Q R R D A P E G G R W A A E L V R P D E Q V A A T T G L L A D V V			

130                  140                  150                  160

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UniRef90_B7GBQ1	L A R T P E I A S E W S A Q   H G V D A I T L   D G D L C S R K G A L T T G G Y V
UniRef90_T1L479	V C E T P E D A A Q V A F D L G R R Y D A V A L   D G T F Y Q K C G F I S G G S
UniRef90_UPI0002C3E045	V C E T P E D A M K V A Y E I D R R F D A L A L   D G T F Y Q K S G L I S G G S H
UniRef90_B4GHG3	V C E T P E D E A R M L A Y E I N R R T N C V A L   D G T Y Y K K D G I I S G G G
UniRef90_UPI000252BB97	V C E T P E D E A R M L A Y E I N R R T N C V A L   D G T Y Y K K D G I I S G G G
UniRef90_F1KRQ2	I V R N M E A G N R I A K N E G F D C V T F D G D Q V S R R G A M T G G Y L
UniRef90_A5KB20	V A N T L E E A A H V I G Y S H K R R V V T I   I G G E L I E N D G R I C G G G I
UniRef90_P47540	I A K D L I N S A I N L S N Y T Y K L Y R I V T L   D G E T V Y A G G I I N G G F E
UniRef90_W7T3Q8	L A R D L E V A A R F S E T A G M D A I T L   D G D E A S R K G S M Q G G Y H
UniRef90_H7D2T7	I C D N I D N A L N I A K S I N F S N R I V T L   D S Q I I N
UniRef90_G8ND10	V F Q D L E A A L A Y R K G G G R E R L V T L   E G E V L E R N G A L T T G G R S
UniRef90_A8XSV8	V A K D T K E A I E M N K T S G K A V C T L   Q G S L V S V T G N I T T G G G S
UniRef90_D6GVZ9	L V I E S F E V A K S M I N R Y R M V L P D G T V F E K T G T V S G G H F
UniRef90_B9T1A8	V C D D L D E A K V L I S W S G E R F K V V T V D G I L L T K
UniRef90_K0SQQ6	L A R S V D V A S T W T S R S N M D A I T L   D G D L C S R K G A L T T G G F V
UniRef90_I7J5L5	V T G N L E E D A F T I G Y N E R K R V V T I E G E L I E P D G R L
UniRef90_UPI0003AF3CA1	I C R S M E V S T Q L A R A F T M D C T L   E G D Q V S H R G A L T T G G Y Y
UniRef90_X0TK51	I L V I D N L S Q A I S A W K K D G G Q T L V T P E G D L V I D E R G V I I G G R
UniRef90_C2CH54	V V S D L D K A V S L S N K C K G Y R I I S M N L D I I N T W G S M V A G N D
UniRef90_F1KRD4	V C E T A E D A K Y L A Y G S S D R Y K A I A L   D G T L F Q Q N G V I S G G G Q
UniRef90_T1HYT8	I C R R N L E V A T D M S K Q Y N N D C T I D G D Q V S S K G T L T T G G Y F
UniRef90_J9K5B6	V C E S P E D A N H V A Y E R D G R Y D A V A L   D G T F Y Q K S G L I S G G S L
UniRef90_M4SKW1	L C R N A E A A S Q L A K E Y R R M D C V L L   D G D F I S R K G A L T T G G Y I
UniRef90_A0A016U9G1	I C E T A E D A R T L A Y G G G D R Y K A V A L   D G T M F Q Q S G V I S G G S H
UniRef90_UPI0004660F92	I I E S Y D V G V Q L A R G A S F P I V T L   D G D V F T V A G S V I S G G K F
UniRef90_B7Q750	V T T N M D D A R V V A F D S G V Q K R T V S F D G A S F D P S G V V S G G G
UniRef90_H2VGK3	A A N S I I A E A Q K L S H P K C N R N Q F C T M D G A S I S A N G N V T T G G G R
UniRef90_T1ASE3	I V E E I I H E A K K Y G I G D A R Y V T L N G N L L N P S G V V T T G G
UniRef90_I6ZT96	I V D N L E I A R D I C Y G K G T K V S V C T L   D G D I Y I H G G G L I S G G
UniRef90_UPI0002656F6B	V A A S L D I I A E K A A Y D R R R V N T K T L S I C G S T C D P S G M L S G G S
UniRef90_A9BHT9	L V D N I I E T A I K I S K M K Y P G N I V T L   S G E L V Y S S G A I T T G G K S
UniRef90_W5NKF9	V C E T L L K E A R Q I A F G G P E R L K T V A L   D G T L F L K S G V I S G G S S
UniRef90_B6AH99	F T E D I T D A R I I A P K I G V S L R V V T L   N G E N I M K N G N I S
UniRef90_R7LYR0	I V E N R D I I A D K L I K E Y R M V T L   D G I I F N N D G S I I K N S H
UniRef90_M4X819	L C R N S D A A T Q L A K Q T Q M D C V L L   D G D F I S R K G A L T T G G Y I
UniRef90_I4C0U7	V V D D L I A T A V R L W E N N G Y S V D L V T K T G E V L T K H G E I I G G M E
UniRef90_E0S987	L C P D L I K Q A L H S K K Y G I N V V T L   S G E V V V A R E G T I T T G G Y E
UniRef90_D0A4G9	I C S T L L E I A Q E L A Y G S A V R C K A V T T L   D G E V V V E P K G L M T G G S K
UniRef90_H3F6Z4	I I R T L E V G V R I A K T F G V D C V T L E G D Q V A R R G A M T G G W Q
UniRef90_G0UX17	V C S S L L G L A A Q E L A Y N P A V R C K A V S L   D G D V D V A E P K G L M T G G S T
UniRef90_T0MD79	L T S D L K K G S E I S K K Y K I S V V T K D G D L V I T K S G V V M T G G Y E
UniRef90_M7NM98	I C E N A E I A K Q I T F D P N L S L K S I T L N G D I I Y D P
UniRef90_E1ZHP2	V T D T P E Q A R E V A F G S A Q R Q K V V S L   D G T I I N K A G I I T T G G
UniRef90_E3M171	V V R A L D Q S A R D I R N E Q Y D V V T A D G D Q M S K K G V M T G G F I
UniRef90_H3DSN0	V V A D T M D A A A K Q N Q S R G V K E N V V T L   D G C M V T Y K G T F I G G G K
UniRef90_C5LD22	L C D T S D T G K A V T F H P Q V K A K S V T K D G D S Y D P
UniRef90_Q7RJK1	L A N N L D E A H I I G Y T H K K R V V T I N G E L I E N D G R I C G G G
UniRef90_A0A059YE65	L V S D L K C A L Q Q K K Y K V N V I T L   T E G E F I S K N G I I T T G G Y E
UniRef90_D2VX81	V A E N M E T A K Q V A F D Q H I I L A K T V T W D G D V F E P A G T L T G
UniRef90_A5JZH3	I C S S V D Y C K K I T Y N A N K K M P T I T L E G D K F D T S G S M S G G S N
UniRef90_A0A059EXM4	I V E S V T E A K L K C Y K E N K R V V T L   N G E L F L K N G F I S A G E V
UniRef90_F0YLT2	L A R T L E A A T R Y A S E V K Q D A I T L E G D E V S R F G A L H G G S R
UniRef90_Q4N620	V V I E N L D E A D E V S R K T N K R V V T I E G E V I E K D G R I T T G G G L
UniRef90_X0SGU0	I V D S I D A A V E L S G E L G Q E Y K F V T L   K G E F L S A D G S I
UniRef90_T1GMH3	I C R N L I E R A T E L A K T T G L D C V T L E G D Q V S S K G S L T T G G Y F
UniRef90_UPI00017450E0	I V I D D L I Q T A M R L K R D H P D L A F V T L   K G E V L T E H G V L H G G A G
UniRef90_S9VQB0	V C S S L A I A Q E L A Y N P K I K V K A V T L   E G E V A E P N G L M T G G S N
UniRef90_G0MVT9	I V K D R A E Y S S M S K E A Q K K F N I V T E D G E Y I Q S N G N I T T G G G A
UniRef90_J9FP03	V A A D N E T A K K V C Y N N I K P S L C V T L   Q G S K Y N P Q G I L E E G G H M
UniRef90_H5SKN4	V V R D L I E A A L Q V W S S G W R G R L V T L   S G E V E V L T G D G L L
UniRef90_Q8SQJ6	L C S D L K Q A L Y S S K K Y E I N T V T L   S G E V I V T R D G P I S G G Y E
UniRef90_X1DAA7	V V R D R G T A Q R I I L S D K N P K R R V V T L   S G E V F V L A S G P I L A G R
UniRef90_Q0YTQ3	I T E S L Q E A E T L A L Q H P D C S F V T L   E G E K F S G S G V L F G G S S
UniRef90_T1A7L7	V M D D L A H A R A Q M G G V R L V T L   T G D L I E A T G A I S G G Y I
UniRef90_M4V939	I V D S I I T A R L R P N Y K G W T F V T M   D G D T L I S A D G V L T T G G S K
UniRef90_UPI00036CCD7E	V F E D V E S A Y S E L K S K N A I G V T Y S G E V V T   N S G F Y Q S G S K
UniRef90_R1D653	P C G A W E S A R L V C E K L R L K T V T L   D G D L Y D P Q G T V T T G G S R
UniRef90_T0L529	I F E Y S D A A Q K I C Y K E Y K I I C T V T L   D G D S I Y D P K G T L T T G G
UniRef90_L2GLD4	I F E D K A K A A T C C F E C K V G C V T L   D G D T V Y D P K G T L T G G K S
UniRef90_UPI000365BA83	V V A D L P T A R A V L D A L P G L T A V T A E G D V L G A N W A S G G S E
UniRef90_V6LR19	I C K N L I Q L A K V V Q N T L N L D C F T I D G D S L Q H S G L V V G G Y R
UniRef90_H5WZD7	V V V N S L D Q A R A F V R E H P E V T A V T R D G D V L L G A H H W A V G G S A
UniRef90_Q7UQV4	L V D T L I A T A I G L R K L S S A G L R F V T A S G D L D N D G S
UniRef90_UPI0002C3EA08	I V D T L I K T A R K I A F N Q R Y K H R I V T S I G S V V E K N S L M V G G S Q
UniRef90_Q5CTJ4	F T Q S L I E D A K K I A P R L G I I P K V M T F D G E K I L K N G N I S A D S S
UniRef90_C4LTU9	L V D T L I D N A R K I A F N Y K H K F R I I T S I G S I V E K N S L M I G G I T
UniRef90_B2HJ82	V V N D I S S E A L D V Q A Q P Q L R A V T L   D G D L V G A G W V S G G S D
UniRef90_I1CGT4	V C P S L E I V A T S Y A K S H H L I A V T L   D G S R V D S R G A L S G G Y V
UniRef90_B3S903	I C R N I E Y A S K I A K E N D L D C V T L   E G D Q I S R R R G A L T G G Y H
UniRef90_V5T9S5	I V E S D I D E G R Q T A F H D A R R P Q V V T L   H G E V I K P S G N M S
UniRef90_E0S516	M F E S K E M A R K V C F E Q K V M C V T I D G T V Y D P K G T L S G G
UniRef90_A5GAU8	L V I E T L I C K A L E L A K Q Y P Q L T F V T L   H G D M V H S G G I V N G G S
UniRef90_UPI00036FB787	V V A D L L G Q A R G I V A D H P E L S A V T A D G D V F G A Q W A I I G G V E
UniRef90_J9SDQ4	I V D D P A Q G L E L A R R L G V R A V T P A G D R I S A A S V E G G S S
UniRef90_D5UD23	V V D D L A A A R P L V A S H P H L V V A T R A G D V L S R F R A S G G S
UniRef90_UPI00035D236C	V V D S E D V K S A N A G E W I V L   G R S G R F I R R F R S I S G G S
UniRef90_L7JWV8	V F D N D K D A R S F S F D K K V I T V T L E G T V Y D Y R G V I S G G
UniRef90_V6TQ43	L T R S L L E D A A K Y S S E H N I D C Y T I T G D V I Q G S G V A V V G G H R
UniRef90_I3D337	L A D T R E T A Y K V S Q M G Y K T V T M N G E Y F E A K G
UniRef90_K4BIK2	V C K T V D A A R
UniRef90_UPI0003B53E93	V V E D L H A A R Q L C A G D P D L V A V T T D G D V L Q A R G G A A G G

UniRef90_E2ABT1	D
UniRef90_B7GBQ1	D T S K S
UniRef90_T1L479	
UniRef90_UPI0002C3E045	D
UniRef90_B4HGH3	D
UniRef90_UPI000252BB97	D [V] K R S
UniRef90_F1KRQ2	L [N] K Q
UniRef90_A5KB20	K T N
UniRef90_P47540	D E R N S
UniRef90_W7T3Q8	R
UniRef90_H7D2T7	P R
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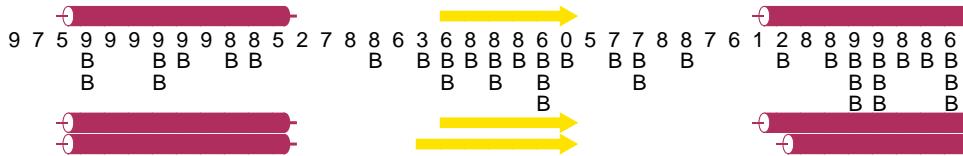
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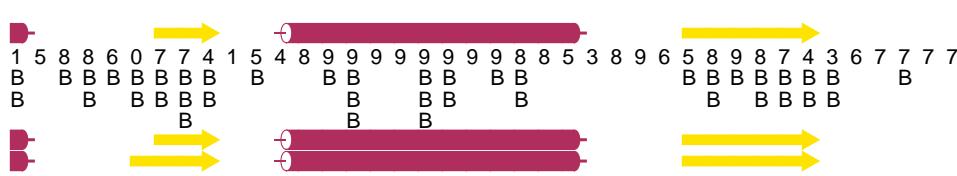
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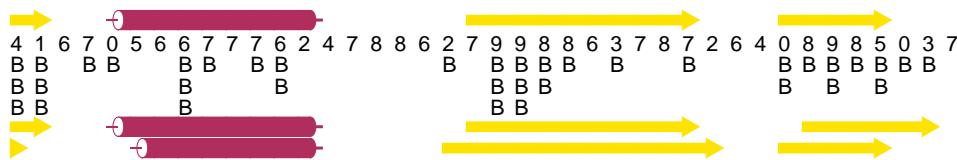
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UniRef90_E8UZJ7	R
UniRef90_J9DIH5	
UniRef90_A7SI31	N K

lupas\_21  
 lupas\_14  
 lupas\_28  
 jnet  
 conf  
 sol25  
 sol5  
 solo  
 jhmm  
 jpssm

7 7 7 8 8 9