

40

QUERY	S G Q R W E	A	10	G R F W D Y	L R W V Q T	L S E Q V Q E E	L L S S Q V T Q E E	L R
UniRef90_UPI000332FFBB	G S Q P W E Q A L	G R F W D Y L R W V Q T	L S D Q V Q E E E	M T T Q I T Q E E	L L T			
UniRef90_UPI0002C4354C	G S P W E L A L	G R F W D Y L R W V Q T	L S E E V Q E E E	R S A Q I I Q E	L L T			
UniRef90_B3RF70	Q N V D E L K G H	Q P Y G D E L K E R I	D Q N V E E E L	R R S	L L A			
UniRef90_B3RF70	Q N V D E L K G H	Q P Y G D E L K E R I	D Q N V E E E L	R R S	L L A			
UniRef90_B3RF70	Q N V D E L K G H	Q P Y G D E L K E R I	D Q N V E E E L	R R S	L L A			
UniRef90_B3RF70	Q N V D E L K G H	Q P Y G D E L K E R I	D Q N V E E E L	R R S	L L A			
UniRef90_H3B366	Q T K W E E A V G T F	W D Y V E H I	S N K A D E T F Q Q I	K S S Q L S K E	L D			
UniRef90_UPI00038F0EED	N K Q A E Q L R S Q L	N P Y V V Q R M E T	V L R E N V G S L	Q A S E F K A K F	D D			
UniRef90_UPI00038F0EED	N K Q A E Q L R S Q L	N P Y V V Q R M E T	V L R E N V G S L	Q A S E F K A K F	D D			
UniRef90_UPI00038F0EED	N K Q A E Q L R S Q L	N P Y V V Q R M E T	V L R E N V G S L	Q A S E F K A K F	D D			
UniRef90_UPI00038F0EED	N K Q A E Q L R S Q L	N P Y V V Q R M E T	V L R E N V G S L	Q A S E F K A K F	D D			
UniRef90_UPI00038F0EED	N K Q A E Q L R S Q L	N P Y V V Q R M E T	V L R E N V G S L	Q A S E F K A K F	D D			
UniRef90_UPI00033288D	Q K K W Q E E V E R	Y R E K V G P L	G A E L R E G A R Q Q E	L H E K	L T			
UniRef90_UPI00033288D	Q K K W Q E E V E R	Y R E K V G P L	G A E L R E G A R Q Q E	L H E K	L T			
UniRef90_UPI00032AEF68	Q E N A D N L Q G G S L	T P Y T D E L K T K I	I N Q N V E E E L	K G L	L T			
UniRef90_UPI00032AEF68	Q E N A D N L Q G G S L	T P Y T D E L K T K I	I N Q N V E E E L	K G L	L T			
UniRef90_UPI00032AEF68	Q E N A D N L Q G G S L	T P Y T D E L K T K I	I N Q N V E E E L	K G L	L T			
UniRef90_UPI00032AEF68	Q E N A D N L Q G G S L	T P Y T D E L K T K I	I N Q N V E E E L	K G L	L T			
UniRef90_UPI00032AEF68	Q E N A D N L Q G G S L	T P Y T D E L K T K I	I N Q N V E E E L	K G L	L T			
UniRef90_UPI000332F2F3	N T Q T E E M R R Q L	T P Y M Q R M E T S V	R E N V D N L	Q A S E L K R N	L V			
UniRef90_UPI000332F2F3	N T Q T E E M R R Q L	T P Y M Q R M E T S V	R E N V D N L	Q A S E L K R N	L V			
UniRef90_UPI000332F2F3	N T Q T E E M R R Q L	T P Y M Q R M E T S V	R E N V D N L	Q A S E L K R N	L V			
UniRef90_UPI000332F2F3	N T Q T E E M R R Q L	T P Y M Q R M E T S V	R E N V D N L	Q A S E L K R N	L V			
UniRef90_UPI000332F2F3	N T Q T E E M R R Q L	T P Y M Q R M E T S V	R E N V D N L	Q A S E L K R N	L V			
UniRef90_UPI000333828F	UniRef90_UPI000333828F	UniRef90_UPI000333828F	UniRef90_UPI000333828F	UniRef90_UPI000333828F	UniRef90_UPI000333828F			
UniRef90_D3U1S0	S V N S W E D T V H R F W E Y	I S Q L N T K A D G V V E N	L K T S Q F T R E	L D				
UniRef90_H2DF13	S K L Q T D M T D A K E	R S T K Y L Q E	L K K					
UniRef90_H2DF13	S K L Q T D M T D A K E	R S T K Y L Q E	L K K					
UniRef90_W5K2M3	Q N A D D V K N R I N T Y T R K L	K K R L L G K D T E E I	I R N T	I T				
UniRef90_W5K2M3	Q N A D D V K N R I N T Y T R K L	K K R L L G K D T E E I	I R N T	I T				
UniRef90_W5K2M3	Q N A D D V K N R I N T Y T R K L	K K R L L G K D T E E I	I R N T	I T				
UniRef90_Q9ZL2L4	L E E V K A K V Q P Y L D Q F Q T K W Q E E V A L	Y R Q K M E	Y R Q K M E					
UniRef90_Q9ZL2L4	L E E V K A K V Q P Y L D Q F Q T K W Q E E V A L	Y R Q K M E	Y R Q K M E					
UniRef90_UPI00042AC9F7	L E E V K K Q V Q P Y L D Q F Q T K W Q E E M E H	Y R Q K V	Y R Q K V					
UniRef90_UPI00042AC9F7	L E E V K K Q V Q P Y L D Q F Q T K W Q E E M E H	Y R Q K V	Y R Q K V					
UniRef90_O42364	R S T Q Y L Q E	L L K						
UniRef90_F6Z2L5	L E L V K Q K V Q P Y L D D F Q	K K W Q E E V E V	Y R Q K V A					
UniRef90_F6Z2L5	L E L V K Q K V Q P Y L D D F Q	K K W Q E E V E V	Y R Q K V A					
UniRef90_B3VTP5	Q N T D D V R N R I S T Y T H K L	K K R L L N K D T E E I	I R N T	I T				
UniRef90_B3VTP5	Q N T D D V R N R I S T Y T H K L	K K R L L N K D T E E I	I R N T	I T				
UniRef90_B3VTP5	Q N T D D V R N R I S T Y T H K L	K K R L L N K D T E E I	I R N T	I T				
UniRef90_B6DUH1	Q N A D D V K N R V N T Y T R K L	K K R L L N K D T E E I	R N T	V A				
UniRef90_B6DUH1	Q N A D D V K N R V N T Y T R K L	K K R L L N K D T E E I	R N T	V A				
UniRef90_B6DUH1	Q N A D D V K N R V N T Y T R K L	K K R L L N K D T E E I	R N T	V A				
UniRef90_UPI00038F0F4C	Q N A D D V K N R V N T Y T R K L	K K R L L N K D T E E I	R N T	V A				
UniRef90_UPI00038F0F4C	Q N A D D V K N R V N T Y T R K L	K K R L L N K D T E E I	R N T	V A				
UniRef90_B2KIF7	T E L R E G A R Q K L Q	E L Q E K L						
UniRef90_B2KIF7	S Q V S T Q A E Q L R R Q L	T P Y A Q R M E						
UniRef90_B2KIF7	S Q V S T Q A E Q L R R Q L	T P Y A Q R M E						
UniRef90_B2KIF7	S Q V S T Q A E Q L R R Q L	T P Y A Q R M E						
UniRef90_B5SNQ3	Q K K W Q E E V E R Y R Q K V E P L	E L H E K L						
UniRef90_B5SNQ3	Q K K W Q E E V E R Y R Q K V E P L	E L H E K L						
UniRef90_B5SNQ3	Q K K W Q E E V E R Y R Q K V E P L	E L H E K L						
UniRef90_UPI0003F1600B	N T Q A E Q F R N Q L T P L A Q R M E T V L	R A S P Y A D E	L K					
UniRef90_UPI0003F1600B	N T Q A E Q F R N Q L T P L A Q R M E T V L	R A S P Y A D E	L K					
UniRef90_UPI0003F1600B	N T Q A E Q F R N Q L T P L A Q R M E T V L	R A S P Y A D E	L K					
UniRef90_UPI0003F1600B	N T Q A E Q F R N Q L T P L A Q R M E T V L	R A S P Y A D E	L K					
UniRef90_UPI0003F1600B	N T Q A E Q F R N Q L T P L A Q R M E T V L	R A S P Y A D E	L K					
UniRef90_UPI0003F143ED	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	K L Q E L H E K L						
UniRef90_UPI0003F143ED	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	K L Q E L H E K L						
UniRef90_H3B4D6	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	L R Q N L L S A						
UniRef90_H3B4D6	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	L R Q N L L S A						
UniRef90_H3B4D6	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	L R Q N L L S A						
UniRef90_H3B4D6	Q K K W H E E V E L Y R Q K V A P L G E E F R D N A R Q	L R Q N L L S A						
UniRef90_I1XUS7	K L Q T D M N D A K E	R T T Q Y L Q E						
UniRef90_I1XUS7	K L Q T D M N D A K E	R T T Q Y L Q E						
UniRef90_Q9PT02	R S T Q Y L G E	L L K						
UniRef90_Q9PT02	R S T Q Y L G E	L L K						
UniRef90_P02647	L E E V K A K V Q P Y L D D F Q	K K W Q E E M E L						
UniRef90_P02647	L E E V K A K V Q P Y L D D F Q	K K W Q E E M E L						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_Q32PJ2	N Q R V E E L K G R L T P Y A D Q L	R R S						
UniRef90_M7BAX7	Q N V E E L R K Q L A P Y A Q D V Q D K L	Q M K K G A E D L						
UniRef90_M7BAX7	Q N V E E L R K Q L A P Y A Q D V Q D K L	Q M K K G A E D L						
UniRef90_M7BAX7	Q N V E E L R K Q L A P Y A Q D V Q D K L	Q M K K G A E D L						
UniRef90_M7BAX7	Q N V E E L R K Q L A P Y A Q D V Q D K L	Q M K K G A E D L						
UniRef90_M7BAX7	Q N V E E L R K Q L A P Y A Q D V Q D K L	Q M K K G A E D L						
UniRef90_P15497	L E E V K Q K V Q P Y L D E F Q	K K W H E E V Y R Q K V						

QUERY

UniRef90_UPI000332FFBB R K [L] R K R [L] R D A D D [L] Q K R [L] A V Y Q A G

UniRef90_UPI0002C4354C R K [L] R K R [L] M R D W E D D L Q K R [L] A V Y R A G

UniRef90_B3RF70 H K [L] R K R [L] L R D A E D D L Q K R [L] A V Y R A G

UniRef90_B3RF70 G D M E D H L S F [L] E K D D L R D K V

UniRef90_B3RF70 G D M E D H L S F [L] E K D D L R D K V

UniRef90_B3RF70 G D M E D H L S F [L] E K D D L R D K V

UniRef90_B3RF70 G D M E D H L S F [L] E K D D L R D K V

UniRef90_H3B366 K K L [K] K R [L] V K D F E E L R R K M T I Y A E

UniRef90_UPI00038F0EED E T F N T A L V Q Q I E E Q L R Q K L G P Y

UniRef90_UPI00038F0EED E T F N T A L V Q Q I E E Q L R Q K L G P Y

UniRef90_UPI00038F0EED E T F N T A L V Q Q I E E Q L R Q K L G P Y

UniRef90_UPI00038F0EED E T F N T A L V Q Q I E E Q L R Q K L G P Y

UniRef90_UPI00038F0EED E T F N T A L V Q Q I E E Q L R Q K L G P Y

UniRef90_UPI00033288D E N [L] K T T V L A A I D E A S K K L

UniRef90_UPI00033288D E N [L] K T T V L A A I D E A S K K L

UniRef90_UPI00032AEF68 E T F N K A L V Q Q V E E Q L R Q S L G P Y A

UniRef90_UPI00032AEF68 E T F N K A L V Q Q V E E Q L R Q S L G P Y A

UniRef90_UPI00032AEF68 E T F N K A L V Q Q V E E Q L R Q S L G P Y A

UniRef90_UPI00032AEF68 E T F N K A L V Q Q V E E Q L R Q S L G P Y A

UniRef90_UPI00032AEF68 UniRef90_UPI00032AEF68 E T F N K A L V Q Q V E E Q L R Q S L G P Y A

UniRef90_UPI00032AEF68 UniRef90_UPI00032AEF68 E L S S S Q L D Q Q V E E F R L N V E S Y G E

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 E L S S S Q L D Q Q V E E F R L N V E S Y G E

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 E L S S S Q L D Q Q V E E F R L N V E S Y G E

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 E L S S S Q L D Q Q V E E F R L N V E S Y G E

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 R D V E G H L R F F L E K D D L R D Q V S S

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 R D V E G H L R F F L E K D D L R D Q V S S

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 R D V E G H L R F F L E K D D L R D Q V S S

UniRef90_UPI000332F2F3 UniRef90_UPI000332F2F3 R D V E G H L R F F L E K D D L R D Q V S S

UniRef90_D3U1S0 UniRef90_D3U1S0 N K L K K R [L] N K D T E G I R N T V T T Y

UniRef90_H2DF13 UniRef90_H2DF13 Q E M S K Q L E V Q A G A L

UniRef90_H2DF13 UniRef90_H2DF13 Q E M S K Q L E V Q A G A L

UniRef90_W5K2M3 D K I R E Q L Q N V M E K I K E

UniRef90_W5K2M3 D K I R E Q L Q N V M E K I K E

UniRef90_W5K2M3 D K I R E Q L Q N V M E K I K E

UniRef90_Q9Z2L4 E S F K T R I M S M V E E A S K K L

UniRef90_Q9Z2L4 E S F K T R I M S M V E E A S K K L

UniRef90_UPI00042AC9F7 E S F R A T I M G W I D E E T S K R L S T

UniRef90_UPI00042AC9F7 E S F R A T I M G W I D E E T S K R L S T

UniRef90_O42364 Q E L R T S L E G R V D E E L T S L L A P Y

UniRef90_O42364 Q E L R T S L E G R V D E E L T S L L A P Y

UniRef90_F6Z2L5 K A L S E K A H P A L E D D L R Q G L L P V L E

UniRef90_F6Z2L5 K A L S E K A H P A L E D D L R Q G L L P V L E

UniRef90_B3VTP5 T Q I R E Q V E N I M D D K V K E T A T

UniRef90_B3VTP5 T Q I R E Q V E N I M D D K V K E T A T

UniRef90_B3VTP5 T Q I R E Q V E N I M D D K V K E T A T

UniRef90_B3VTP5 T Q I R E Q V E N I M D D K V K E T A T

UniRef90_B6DUH1 D E L T S L L T P Y S E K I R E Q L

UniRef90_B6DUH1 D E L T S L L T P Y S E K I R E Q L

UniRef90_B6DUH1 D E L T S L L T P Y S E K I R E Q L

UniRef90_B6DUH1 D E L T S L L T P Y S E K I R E Q L

UniRef90_UPI00038F0F4C E S L K A S I L S S I D Q A T K Q L T

UniRef90_UPI00038F0F4C E S L K A S I L S S I D Q A T K Q L T

UniRef90_B2KIF7 E D V R N K L K G N T E G L Q K S L A

UniRef90_B2KIF7 E D V R N K L K G N T E G L Q K S L A

UniRef90_B2KIF7 E D V R N K L K G N T E G L Q K S L A

UniRef90_B2KIF7 E D V R N K L K G N T E G L Q K S L A

UniRef90_B5SNQ3 E S F K V V S L L S A L D E E A A K K L

UniRef90_B5SNQ3 E S F K V V S L L S A L D E E A A K K L

UniRef90_B5SNQ3 E S F K V V S L L S A L D E E A A K K L

UniRef90_UPI0003F1600B E T F N K A L V Q Q M E E L R Q K L G P Y

UniRef90_UPI0003F1600B E T F N K A L V Q Q M E E L R Q K L G P Y

UniRef90_UPI0003F1600B E T F N K A L V Q Q M E E L R Q K L G P Y

UniRef90_UPI0003F1600B E T F N K A L V Q Q M E E L R Q K L G P Y

UniRef90_UPI0003F143ED D E A S K K L D S Q

UniRef90_UPI0003F143ED D E A S K K L D S Q

UniRef90_H3B4D6 Q D V H T Q L S N L W E S F K Q N L

UniRef90_H3B4D6 Q D V H T Q L S N L W E S F K Q N L

UniRef90_H3B4D6 Q D V H T Q L S N L W E S F K Q N L

UniRef90_H3B4D6 Q D V H T Q L S N L W E S F K Q N L

UniRef90_H3B4D6 Q D V H T Q L S N L W E S F K Q N L

UniRef90_I1XUS7 Q E L R T S L E G R M D E L T S L L T P Y S E

UniRef90_I1XUS7 Q E L R T S L E G R M D E L T S L L T P Y S E

UniRef90_Q9PT02 D L L K N Q A Q D D L S Q Q V S T Q A E G

UniRef90_Q9PT02 D L L K N Q A Q D D L S Q Q V S T Q A E G

UniRef90_P02647 S T L S E K A K P A L E D D L R Q G L L P V L E

UniRef90_P02647 S T L S E K A K P A L E D D L R Q G L L P V L E

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_Q32PJ2 G D V E D H L S F L E K D D L R D K V S

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_M7BAX7 G E V E D H L S F L E K D D V R D K V A

UniRef90_P15497 E S L K V S I L A A I D E A S K K L

This figure displays a sequence alignment of UniRef90 proteins, focusing on the first 30 positions. The alignment is color-coded to indicate residue conservation and substitution patterns. The x-axis represents the position number (1, 10, 20, 30) and the y-axis lists various UniRef90 entries.

Legend for color coding:

- Black:** Identical residues.
- Grey:** Conservative substitutions.
- Red:** Non-conservative substitutions involving Histidine (H).
- Blue:** Non-conservative substitutions involving Proline (P).
- Green:** Non-conservative substitutions involving Serine (S).
- Yellow:** Non-conservative substitutions involving Threonine (T).
- Pink:** Non-conservative substitutions involving Tyrosine (Y).
- Brown:** Non-conservative substitutions involving Phenylalanine (F).
- Light Blue:** Non-conservative substitutions involving Valine (V).

Key UniRef90 entries shown:

- UniRef90_P15497
- UniRef90_M7AJK3
- UniRef90_G3NGR6
- UniRef90_G3NGR6
- UniRef90_UP10003C10838
- UniRef90_UP10003C10838
- UniRef90_UP10003C10838
- UniRef90_UP10003C10838
- UniRef90_UP10003C10838
- UniRef90_UP10003C10838
- UniRef90_I3KGU8
- UniRef90_I3KGU8
- UniRef90_P06727
- UniRef90_P06727
- UniRef90_P06727
- UniRef90_P06727
- UniRef90_P06727
- UniRef90_UP1000457559E
- UniRef90_UP1000457559E
- UniRef90_UP1000457559E
- UniRef90_UP1000457559E
- UniRef90_P09809
- UniRef90_P09809
- UniRef90_P09809
- UniRef90_P04639
- UniRef90_UP10002C45BB1
- UniRef90_UP10002C45BB1
- UniRef90_UP10002C45BB1
- UniRef90_UP10002C45BB1
- UniRef90_UP10002C45BB1
- UniRef90_G5BQH3
- UniRef90_G5BQH3
- UniRef90_G5BQH3
- UniRef90_G5BQH3
- UniRef90_UP1000388BAD8
- UniRef90_UP1000388BAD8
- UniRef90_UP1000388BAD8
- UniRef90_L5KMA9
- UniRef90_L5KMA9
- UniRef90_UP1000443E963
- UniRef90_UP1000443E963
- UniRef90_UP1000443E963
- UniRef90_UP1000443E963
- UniRef90_UP1000443E963
- UniRef90_K7G3N7
- UniRef90_K7G3N7
- UniRef90_K7G3N7
- UniRef90_K7G3N7
- UniRef90_K7G3N7
- UniRef90_K7G3N7
- UniRef90_UP1000329237C
- UniRef90_C9EIP2
- UniRef90_C9EIP2
- UniRef90_P18650
- UniRef90_UP10002C67D3B
- UniRef90_UP10002C67D3B
- UniRef90_UP10002C67D3B
- UniRef90_UP10002C67D3B
- UniRef90_UP10002C67D3B
- UniRef90_H0VUA6
- UniRef90_H0VUA6
- UniRef90_H0VUA6
- UniRef90_H0VUA6
- UniRef90_H0VUA6
- UniRef90_C1BX75
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- UniRef90_F7HUS6
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- UniRef90_UP100033436E1
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UniRef90_G3NGR6	T M I E Q N S N S D D D V G T Y S H K K K R L N K D T E E I R S A V A N Y L G E I Q Q				
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90 100 110 120

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UniRef90_UPI000443E963	Q K L E P L A E S V R G K L S R S S L L A E E L S I Q V D R Q V E E F R R R V A P Y G G
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UniRef90_K7G3N7	G Q M D Q K I E E F R Q T V A P Y G E A F N K Q L V Q K V E E M R Q K L G P Y A
UniRef90_K7G3N7	G Q M D Q K I E E F R Q T V A P Y G E A F N K Q L V Q K V E E M R Q K L G P Y A
UniRef90_K7G3N7	G Q M D Q K I E E F R Q T V A P Y G E A F N K Q L V Q K V E E M R Q K L G P Y A
UniRef90_K7G3N7	G Q M D Q K I E E F R Q T V A P Y G E A F N K Q L V Q K V E E M R Q K L G P Y A
UniRef90_K7G3N7	G Q M D Q K I E E F R Q T V A P Y G E A F N K Q L V Q K V E E M R Q K L G P Y A
UniRef90_UPI000329237C	V R L A T D M D E L Q G R L E Q Y R M E A K S M L G Q S A E D L R A R F A S H L
UniRef90_C9EIP2	E H F N S K A E E F K K Q M D Q T T Q E I H S T L L Q G K A E E E L R S W F E P Y A
UniRef90_C9EIP2	E H F N S K A E E F K K Q M D Q T T Q E I H S T L L Q G K A E E E L R S W F E P Y A
UniRef90_P18650	A R V G A D M E D V R N R L V L Y R S E V I H N M L G Q T T E L R S R L A S H H L
UniRef90_UPI0002C67D3B	E K L N R Q L E E G L R Q K L A P L A E D V H G K L D R Q V E E F R R H V E P Y G G
UniRef90_UPI0002C67D3B	E K L N R Q L E E G L R Q K L A P L A E D V H G K L D R Q V E E F R R H V E P Y G G
UniRef90_UPI0002C67D3B	E K L N R Q L E E G L R Q K L A P L A E D V H G K L D R Q V E E F R R H V E P Y G G
UniRef90_UPI0002C67D3B	E K L N R Q L E E G L R Q K L A P L A E D V H G K L D R Q V E E F R R H V E P Y G G
UniRef90_H0VUA6	Q R L M P M V E D V R S S K L K P Y E E T F N R A L V Q Q M E E Q L L R Q K L G P H A
UniRef90_H0VUA6	Q R L M P M V E D V R S S K L K P Y E E T F N R A L V Q Q M E E Q L L R Q K L G P H A
UniRef90_H0VUA6	Q R L M P M V E D V R S S K L K P Y E E T F N R A L V Q Q M E E Q L L R Q K L G P H A
UniRef90_H0VUA6	Q R L M P M V E D V R S S K L K P Y E E T F N R A L V Q Q M E E Q L L R Q K L G P H A
UniRef90_C1BX75	N K L Q V H M V E A K E R I T L Y T Q E F Q T M M E Q N A D D V K T R F N T Y N
UniRef90_F5BZM3	D T A N Q K L S D I S T L L M T Q A E G L G K Q L E D D Q A E G I K T Q L E A T A
UniRef90_F5BZM3	D T A N Q K L S D I S T L L M T Q A E G L G K Q L E D D Q A E G I K T Q L E A T A
UniRef90_F5BZM3	D T A N Q K L S D I S T L L M T Q A E G L G K Q L E D D Q A E G I K T Q L E A T A
UniRef90_W5ULJ0	S R G E Q N A E T V K T H L E P Y A K Q V Q E G I G Q K L
UniRef90_W5ULJ0	S R G E Q N A E T V K T H L E P Y A K Q V Q E G I G Q K L
UniRef90_UPI0003347875	Q E I N Q D M A K L K E K L Q P Y L D T F Q H Q V Q G Q E E V N Y R Q K V A P L S
UniRef90_Q5KST8	Q Q L E T Q V E D D L K T R L E V T A Q E L R T S L E E G K M D E L K D L L S P P Y A
UniRef90_Q5KST8	Q Q L E T Q V E D D L K T R L E V T A Q E L R T S L E E G K M D E L K D L L S P P Y A
UniRef90_Q5KST8	Q Q L E T Q V E D D L K T R L E V T A Q E L R T S L E E G K M D E L K D L L S P P Y A
UniRef90_F7HUS6	T Q L A P Y S D K L R Q R L A T R L E A L K E S G G A S L A E Y H A K A S E H L
UniRef90_F7HUS6	T Q L A P Y S D K L R Q R L A T R L E A L K E S G G A S L A E Y H A K A S E H L
UniRef90_UPI00046B16E5	Q R L A P A A E D M R S S Q L Q G N A A E E L N D H L D R Q V E E R F Q R N I E P Q V
UniRef90_UPI00046B16E5	Q R L A P A A E D M R S S Q L Q G N A A E E L N D H L D R Q V E E R F Q R N I E P Q V
UniRef90_UPI00046B16E5	Q R L A P A A E D M R S S Q L Q G N A A E E L N D H L D R Q V E E R F Q R N I E P Q V
UniRef90_UPI00046B16E5	Q R L A P A A E D M R S S Q L Q G N A A E E L N D H L D R Q V E E R F Q R N I E P Q V
UniRef90_UPI00033436E1	F Q M K K N A D Q L Q T Q I S A G A E K M R Q K L E P L A E E V R G K L Q G N T
UniRef90_UPI00033436E1	F Q M K K N A D Q L Q T Q I S A G A E K M R Q K L E P L A E E V R G K L Q G N T

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		50	60	70	80
UniRef90_UPI00033436E1	T K L T Q N V E E I K Q N V E D L R R S L A P L A Q D V Q E K L N H Q L E G L A				
UniRef90_UPI00033436E1	T K L T Q N V E E I K Q N V E D L R R S L A P L A Q D V Q E K L N H Q L E G L A				
UniRef90_UPI00033436E1	T K L T Q N V E E I K Q N V E D L R R S L A P L A Q D V Q E K L N H Q L E G L A				
UniRef90_UPI00033436E1	T K L T Q N V E E I K Q N V E D L R R S L A P L A Q D V Q E K L N H Q L E G L A				
UniRef90_UPI0002C469E5	P L G E E L R D S A R Q K L Q E L Q E E K L S P V A Q E L R D R R V R D E L L R				
UniRef90_UPI0002C469E5	P L G E E L R D S A R Q K L Q E L Q E E K L S P V A Q E L R D R R V R D E L L R				
UniRef90_E1B17	N L K E S L Q D R V S N V G N F L A P H R G I H P D S D S				
UniRef90_S7MDM2	P V A D E L Q G L I N Q N V K E L L K E E H L M P F A D D L K E R I D K H V E I L R				
UniRef90_S7MDM2	P V A D E L Q G L I N Q N V K E L L K E E H L M P F A D D L K E R I D K H V E I L R				
UniRef90_S7MDM2	P V A D E L Q G L I N Q N V K E L L K E E H L M P F A D D L K E R I D K H V E I L R				
UniRef90_S7MDM2	P V A D E L Q G L I N Q N V K E L L K E E H L M P F A D D L K E R I D K H V E I L R				
UniRef90_P0DMC0	P L G E E L R D S L R S H V D A L R T Q L A P Y T E E M R Q R L A S R L E A L K				
UniRef90_P0DMC0	P L G E E L R D S L R S H V D A L R T Q L A P Y T E E M R Q R L A S R L E A L K				
UniRef90_UPI0003F0A1EF	P Y A Q E V V E E K L N H Q L E E G L A F Q M K K N A E E L K V K V D A K A A E E L L K				
UniRef90_UPI0003F0A1EF	P Y A Q E V V E E K L N H Q L E E G L A F Q M K K N A E E L K V K V D A K A A E E L L K				
UniRef90_UPI0003F0A1EF	P Y A Q E V V E E K L N H Q L E E G L A F Q M K K N A E E L K V K V D A K A A E E L L K				
UniRef90_UPI0003F0A1EF	P Y A Q E V V E E K L N H Q L E E G L A F Q M K K N A E E L K V K V D A K A A E E L L K				
UniRef90_UPI0003F0A1EF	P Y A Q E V V E E K L N H Q L E E G L A F Q M K K N A E E L K V K V D A K A A E E L L K				
UniRef90_UPI0003F0D961	P L A A D L R D R L R T H V D T L R T Q V A P Y S E G L R Q R L A T H F Q A L L K				
UniRef90_UPI0003F0D961	P L A A D L R D R L R T H V D T L R T Q V A P Y S E G L R Q R L A T H F Q A L L K				
UniRef90_F6RZ27	P Y A E D A Q E K L N R Q L E G L A F Q M K K S A E E L K A K K L V P L A E D V H				
UniRef90_F6RZ27	P Y A E D A Q E K L N R Q L E G L A F Q M K K S A E E L K A K K L V P L A E D V H				
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UniRef90_F6RZ27	P Y A E D A Q E K L N R Q L E G L A F Q M K K S A E E L K A K K L V P L A E D V H				
UniRef90_F6RZ27	P Y A E D A Q E K L N R Q L E G L A F Q M K K S A E E L K A K K L V P L A E D V H				
UniRef90_F6RZ27	P Y A E D A Q E K L N R Q L E G L A F Q M K K S A E E L K A K K L V P L A E D V H				
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UniRef90_P23529	L L I E D T M K E V K A Y K A E E L E K E L G P V A E D T K A K R L A K E L Q A A Q				
UniRef90_UPI00018B7DC5	G K L S H Q L E Q M K K H A E E E L K A K V S A R A E E L R Q K L E P V T D S V R				
UniRef90_UPI00018B7DC5	G K L S H Q L E Q M K K H A E E E L K A K V S A R A E E L R Q K L E P V T D S V R				
UniRef90_UPI00018B7DC5	G K L S H Q L E Q M K K H A E E E L K A K V S A R A E E L R Q K L E P V T D S V R				
UniRef90_UPI00018B7DC5	G K L S H Q L E Q M K K H A E E E L K A K V S A R A E E L R Q K L E P V T D S V R				
UniRef90_UPI00018B7DC5	G K L S H Q L E Q M K K H A E E E L K A K V S A R A E E L R Q K L E P V T D S V R				
UniRef90_UPI000333B2C2	P Y A E G L R T Q V T A Q T E E H R S Q L V P L A Q R L E A S S T P F A E E E M K				
UniRef90_UPI000333B2C2	P Y A E G L R T Q V T A Q T E E H R S Q L V P L A Q R L E A S S T P F A E E E M K				
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UniRef90_UPI00046BCFOB	M L M E T M K E V K A Y K E E E L E T Q L T P M T Q E T H A R L S K E L Q A A Q				
UniRef90_L9KQR3	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K R N A Q K L A P V A E D L H				
UniRef90_L9KQR3	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K R N A Q K L A P V A E D L H				
UniRef90_L9KQR3	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K R N A Q K L A P V A E D L H				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_S9XCM5	P Y T S E L M E Q V A L R V Q E E L Q E Q L L H A V G E D T K A H L R G V Q E E V Q				
UniRef90_UPI0002C5698D	A K I E Q N V E E E L K P Y A D E E L K V K I D Q N V E D L R R S L A P Y A Q D V Q				
UniRef90_UPI0002C5698D	A K I E Q N V E E E L K P Y A D E E L K V K I D Q N V E D L R R S L A P Y A Q D V Q				
UniRef90_UPI0002C5698D	A K I E Q N V E E E L K P Y A D E E L K V K I D Q N V E D L R R S L A P Y A Q D V Q				
UniRef90_UPI0002C5698D	A K I E Q N V E E E L K P Y A D E E L K V K I D Q N V E D L R R S L A P Y A Q D V Q				
UniRef90_UPI0002C5698D	A K I E Q N V E E E L K P Y A D E E L K V K I D Q N V E D L R R S L A P Y A Q D V Q				
UniRef90_UPI0003C4CD93	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E Q I D K H V E T L R				
UniRef90_UPI0003C4CD93	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E Q I D K H V E T L R				
UniRef90_UPI0003C4CD93	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E Q I D K H V E T L R				
UniRef90_UPI0003C4CD93	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E Q I D K H V E T L R				
UniRef90_B2KIF8	L K L D N L D S L S T T V T K V R E Q G P V T Q E F W D T L E K E T E V L R				
UniRef90_O46409	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K Q A E E L K A K K I S A N A D E L L R				
UniRef90_O46409	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K Q A E E L K A K K I S A N A D E L L R				
UniRef90_O46409	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K Q A E E L K A K K I S A N A D E L L R				
UniRef90_O46409	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K Q A E E L K A K K I S A N A D E L L R				
UniRef90_B5X898	D R I T E S A D V A S Q Y A I S Q E Q L P P A A K D L M T K L T Q E A E V L R				
UniRef90_UPI000392E022	P H T Q A S P E K L N Q Y I Q E E L S T K L T Q N A R D L H Q K I Q G N E L E Q L K				
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UniRef90_UPI0003F12BAE	P Y A D E L K V K I D Q N V E E E L R R S L S P F A Q D V Q E K L N H Q Q L E G L A				
UniRef90_UPI0003F12BAE	P Y A D E L K V K I D Q N V E E E L R R S L S P F A Q D V Q E K L N H Q Q L E G L A				
UniRef90_UPI0003F12BAE	P Y A D E L K V K I D Q N V E E E L R R S L S P F A Q D V Q E K L N H Q Q L E G L A				
UniRef90_D2HC79	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_D2HC79	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_D2HC79	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_UPI00038C0060	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_UPI00038C0060	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_UPI00038C0060	P Y A Q D V Q E E K L N H Q L E E G L A F Q M K K N A E E L K A K K I S A N A D E L L R				
UniRef90_Q00623	P L G A E L Q E S A R Q K L Q Q E L Q G R L S P V A E E F R D R M R T H V D S L R				
UniRef90_Q00623	P L G A E L Q E S A R Q K L Q Q E L Q G R L S P V A E E F R D R M R T H V D S L R				
UniRef90_Q4SV28	T L I T D A M A E L T K Y R E D Q T K L A P F T D S S S G L L T Q D M Q L L F				
UniRef90_UPI0003C87E27	S A L R Q N V G Q L Q A Y A D E F R A K I E E N V E E V K G R L M P Y A E E L L K				
UniRef90_UPI0003C87E27	S A L R Q N V G Q L Q A Y A D E F R A K I E E N V E E V K G R L M P Y A E E L L K				
UniRef90_UPI0003C87E27	S A L R Q N V G Q L Q A Y A D E F R A K I E E N V E E V K G R L M P Y A E E L L K				
UniRef90_H9G5E8	P F A Q D A Q G Q L N R Q L E E G L S F Q M Q K G I E E E L R A K L S E G T L L D L L E				
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UniRef90_UPI0003EBE508	T M L R D Q K D N L Q A S L A P V A D K F Q G L I D E D L K G H T P Y A D N L L K				
UniRef90_UPI0003EBE508	T M L R D Q K D N L Q A S L A P V A D K F Q G L I D E D L K G H T P Y A D N L L K				
UniRef90_UPI0003EBE508	T M L R D Q K D N L Q A S L A P V A D K F Q G L I D E D L K G H T P Y A D N L L K				
UniRef90_G3SQG7	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E L K T M I D Q N V E E E L R				
UniRef90_G3SQG7	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E L K T M I D Q N V E E E L R				
UniRef90_G3SQG7	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E L K T M I D Q N V E E E L R				
UniRef90_G3SQG7	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E L K T M I D Q N V E E E L R				

	90	100	110	120
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UniRef90_UPI00033436E1	F Q M K K N A D Q L Q T Q I S A G A E K M R Q K L E P L A E E V R G K L Q G N T			
UniRef90_UPI0002C469E5	T Q L T P Y S E E E L R Q R Q L A R R R L E T L K E K T K P V L E D F R Q G G L L P V L			
UniRef90_UPI0002C469E5	T Q L T P Y S E E E L R Q R Q L A R R R L E T L K E K T K P V L E D F R Q G G L L P V L			
UniRef90_E1B17	K L I R K E L E S L R V K S P Y V D D V H H R V G K H E D L R Y Q L Q P F T			
UniRef90_S7MDM2	Q K L A P Y A K D A Q E E N L N H Q L E A L A L L Q M K K N A D T T L L K N K L A P L T			
UniRef90_S7MDM2	Q K L A P Y A K D A Q E E N L N H Q L E A L A L L Q M K K N A D T T L L K N K L A P L T			
UniRef90_S7MDM2	Q K L A P Y A K D A Q E E N L N H Q L E A L A L L Q M K K N A D T T L L K N K L A P L T			
UniRef90_S7MDM2	Q K L A P Y A K D A Q E E N L N H Q L E A L A L L Q M K K N A D T T L L K N K L A P L T			
UniRef90_P0DMC0	E S N L A E Y H T K A S E H L S A L R E N A K P A L E D F R Q G G L M P V L			
UniRef90_P0DMC0	E S N L A E Y H T K A S E H L S A L R E N A K P A L E D F R Q G G L M P V L			
UniRef90UPI0003F0A1EF	Q K L V P V A E D V R G R Q G N T T E E L S S S Q L D R Q V V E E F R S S S V G S Y Y G			
UniRef90UPI0003F0A1EF	Q K L V P V A E D V R G R Q G N T T E E L S S S Q L D R Q V V E E F R S S S V G S Y Y G			
UniRef90UPI0003F0A1EF	Q K L V P V A E D V R G R Q G N T T E E L S S S Q L D R Q V V E E F R S S S V G S Y Y G			
UniRef90UPI0003F0A1EF	Q K L V P V A E D V R G R Q G N T T E E L S S S Q L D R Q V V E E F R S S S V G S Y Y G			
UniRef90UPI0003F0D61	D S A I L S E Y H T K A T E H L T T F S E K A K P A L E D F R Q G L I P V M			
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P Y A Q E L T L Q M E R A A E E L R G R A T S S S E E L R A Q L S P L A R E L R
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P Y A Q E L T L Q M E R A A E E L R G R A T S S S E E L R A Q L S P L A R E L R
P L T E E L L D Q V S L R A R Q L R R H V P S R E E V T A Q L L G G A D E L L Q Q
P L T E E L L D Q V S L R A R Q L R R H V P S R E E V T A Q L L G G A D E L L Q Q
A Q F L E G V Y E E V Q R F V A Q Y A N K I A F H T D Q V K E E V F H P Y A A R L V
A Q F L E G V Y E E V Q R F V A Q Y A N K I A F H T D Q V K E E V F H P Y A A R L V
G K L R D N T Q E E L Q K S L T E E L S S S Q L D R Q V E E F R R N G P Y G E T F N
G K L R D N T Q E E L Q K S L T E E L S S S Q L D R Q V E E F R R N G P Y G E T F N
G K L R D N T Q E E L Q K S L T E E L S S S Q L D R Q V E E F R R N G P Y G E T F N
G K L R D N T Q E E L Q K S L T E E L S S S Q L D R Q V E E F R R N G P Y G E T F N
P F A N E F K D K F N Q N V E E E L K A R T P R A S E E L K A T I D Q N L Q E L R
P F A N E F K D K F N Q N V E E E L K A R T P R A S E E L K A T I D Q N L Q E L R
P F A N E F K D K F N Q N V E E E L K A R T P R A S E E L K A T I D Q N L Q E L R
P F A N E F K D K F N Q N V E E E L K A R T P R A S E E L K A T I D Q N L Q E L R
A L M E D T M T E V K A Y K K E L E E Q L G P V V A E E T R A R L G K E V Q A A Q
P R A N E L K A T I D Q N L E D L R S R L A P L A E E G V Q E E K L N K N A E E L
P R A N E L K A T I D Q N L E D L R S R L A P L A E E G V Q E E K L N K N A E E L
P R A N E L K A T I D Q N L E D L R S R L A P L A E E G V Q E E K L N K N A E E L
L K L L D N L D T L S S S F T K L Q E Q I G P V T Q Q F W D N E K D I A H R
V L M E E T M K E V K A Y R E E L E E Q L G P M A S E E T Q A R V A K E L Q A A Q
Q S V K E L Q A Q L E P Y T A E L K E K D Q H L Q E E F Q K T V S P L A E D L
Q S V K E L Q A Q L E P Y T A E L K E K D Q H L Q E E F Q K T V S P L A E D L
Q K T E E L R G T L E E R V K E L Q S Q G P Y T D D E L R Q K V D Q H L Q E F F Q
Q K T E E L R G T L E E R V K E L Q S Q G P Y T D D E L R Q K V D Q H L Q E F F Q
P Y L D D F Q K K W Q E T A E E L Q G Q G E L L Q G Q E E V R D S V R T Y V D L L R
P Y L D D F Q K K W Q E T A E E L Q G Q G E L L Q G Q E E V R D S V R T Y V D L L R
P Y L D D F Q K K W Q E T A E E L Q G Q G E L L Q G Q E E V R D S V R T Y V D L L R
T K I T K E A E V L K E R L E T M K D K E P Y A D D L K A Q Q Q R V E E E L
T K I T K E A E V L K E R L E T M K D K E P Y A D D L K A Q Q Q R V E E E L
T K I T K E A E V L K E R L E T M K D K E P Y A D D L K A Q Q Q R V E E E L
T K I T K E A E V L K E R L E T M K D K E P Y A D D L K A Q Q Q R V E E E L
Q N I E D V Q G K V N M Y M K K L K K R S K D S E D L K K K S S Q Y G E D F R
Q N I E D V Q G K V N M Y M K K L K K R S K D S E D L K K K S S Q Y G E D F R
Q I T E Q L K A Q L S P Y A D D L K E K Q V N A R D A K Q T L E P Y T E L N
Q I T E Q L K A Q L S P Y A D D L K E K Q V N A R D A K Q T L E P Y T E L N
Q I T E Q L K A Q L S P Y A D D L K E K Q V N A R D A K Q T L E P Y T E L N
Q I T E Q L K A Q L S P Y A D D L K E K Q V N A R D A K Q T L E P Y T E L N
Q I T E Q L K A Q L S P Y A D D L K E K Q V N A R D A K Q T L E P Y T E L N
L D S E A L R T T L M Q K S E E L K T S L E Q S V K D L Q S Q G P Y T D D L
L D S E A L R T T L M Q K S E E L K T S L E Q S V K D L Q S Q G P Y T D D L
G L I T D T V A E V D Y T E N L R S K G P Y T Q E E R L K T E V S T
N K I I D E S V D Q L N P Y T D E E V R E K G H Q V Q K L R E E S L S P Y A E E M Q
N K I I D E S V D Q L N P Y T D E E V R E K G H Q V Q K L R E E S L S P Y A E E M Q
N K I I D E S V D Q L N P Y T D E E V R E K G H Q V Q K L R E E S L S P Y A E E M Q
A R L T E S A T L A N E Y A T S H E Q L P P E A Q Q I T K V T T E A E V L R
P V A E E A R D R L R G H V E E E L R K N T P Y S D E L R E K L S Q K L Q E I R
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P Y A Q D V Q E K L N H Q L E G G A F Q M K K N A E E E L K A K T A N A D E L L
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P L G E D L R D S V R A Y A D T L R T Q A P Y S E Q M R K T G A R L E A I K Q
P L G E D L R D S V R A Y A D T L R T Q A P Y S E Q M R K T G A R L E A I K Q
E D V R V R V S A Y T R K M K K R S K D T Q D K R V S D F L E E V Q

UniRef90_G3SQG7	Q S L V P Y A Q D [V P E K L N H Q L E G L A F Q M K K K N A E M L K A K K I E A Q A	90	100	110	120
UniRef90_B7NZM0	S K L S G N G E G L Q K S L A E L S G R L S R Q V E E F R R K K V I V E A P Y G				
UniRef90_B7NZM0	S K L S G N G E G L Q K S L A E L S G R L S R Q V E E F R R K K V I V E A P Y G				
UniRef90_B7NZM0	S K L S G N G E G L Q K S L A E L S G R L S R Q V E E F R R K K V I V E A P Y G				
UniRef90_H0VVW3	D S A T L A D Y H A K A S E H L K M L G E K A K K P A L E D L R Q G L L P V L				
UniRef90_H0VVW3	D S A T L A D Y H A K A S E H L K M L G E K A K K P A L E D L R Q G L L P V L				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_V9KPY3	N Q V N Q R I E E F R Q N M A P Y T E Q L D T M I S Q N I Q K M R E S L Q P H T				
UniRef90_Q8HZ97	T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R L A E Y H A K A T E H L				
UniRef90_Q8HZ97	T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R L A E Y H A K A T E H L				
UniRef90_UP10003834DDE	T E I H R N V E E L H R D V V P H S Q A S P E Q L N Q Y I Q E E L S S K L T R S A				
UniRef90_UP10003834DDE	T E I H R N V E E L H R D V V P H S Q A S P E Q L N Q Y I Q E E L S S K L T R S A				
UniRef90_M4AW02	K S V A P M T E K V Q V E L T Q R A S L V K Q I V A P Y A E D L R E K L D P Y A				
UniRef90_UP10003C82506	A R L G T D M E D L R S R L A H Y R N E V Q A M L G Q T T D E L R N R L A S H L				
UniRef90_U3JSQ8	E A A S G D A E S L R Q R L A P L A Q Q L E Q R V G Q T L E S S F R Q Q A A P F G				
UniRef90_U3JSQ8	E A A S G D A E S L R Q R L A P L A Q Q L E Q R V G Q T L E S S F R Q Q A A P F G				
UniRef90_U3JSQ8	E A A S G D A E S L R Q R L A P L A Q Q L E Q R V G Q T L E S S F R Q Q A A P F G				
UniRef90_UP1000359C0AD	R F M A H Y A D Q V K D I F H P Y T D R L L S E I H R N V E E L H R S S V A P F H A				
UniRef90_UP1000359C0AD	R F M A H Y A D Q V K D I F H P Y T D R L L S E I H R N V E E L H R S S V A P F H A				
UniRef90_M7C3T6	T E I H R N M E E L H R N V T P H T K V S P E K F Y Q Y I Q E E L S E K L T Q N A				
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UniRef90_UP100038BC9D0	S S L A P L A E G V V Q E K L K K N A E E L Q T K V S T N I E Q Q L Q K K L A P L V				
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UniRef90_F1SWE5	Q S S V A P L A E S L Q T Q L A Q R A K V L Q Q S L A P Y A E D L R E K L D P Y A				
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UniRef90_Q3UF21	A R L G A D M E D L R N R L G Q Y R N N I H □ Q A P L V				
UniRef90_P02651	T K V S T N I D Q L R Q N L A P L V E D V Q S K L K G N T E G L Q K S L				
UniRef90_P02651	T K V S T N I D Q L R Q N L A P L V E D V Q S K L K G N T E G L Q K S L				
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UniRef90_M3W2V0	A R L G S D M E D V R N R L A Q Y R S E V Q A M L G Q S A E E L R G R L A S X F				
UniRef90_F1QHR0	V Q I R E R R A Q I V Q Q S L T P Y A E D L K E K L D P Y A Q N L K D Q L I S L Y				
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UniRef90_W5K2N8	K T V T P L A E D L Q T Q V A Q R A E M V Q Q S L A P Y A E D L R E K L D P Y A				
UniRef90_W5K2N8	K T V T P L A E D D L Q T Q V A Q R A E M V Q Q S L A P Y A E D L R E K L D P Y A				
UniRef90_Q5KSU1	Q N L A P M A E E K V Q T E L N Q R A Q V Q V K D M A A P F V D E L L R D K L D P Y A				
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UniRef90_C3PSW9	S Q L S P H S E E L R Q R V M A R L L E A L K E G G G A S L A Q Y Q A K A S E Q L				
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UniRef90_UP1000440FE7A	V A V A P Y A E S L Q S Q L E P Y T A E L K Q K V D D E R R L Q E F Q K I V A P L G				
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UniRef90_F7EJB4	K S T E D K V E N L R K A V E P Y L S N V K D K G Q Q R L M N L K D K A I D E Q G				
UniRef90_F7EJB4	K S T E D K V E N L R K A V E P Y L S N V K D K G Q Q R L M N L K D K A I D E Q G				
UniRef90_Q66IL6	Q Q M E Q K I A E F K V S I T P Y G E A L N K A L V Q R V E D M K L K F G K Y T				
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UniRef90_13KGU6	Q K V D Q H L R D F Q K R L A P M T E K V H V A L T H R A H L V K Q M V A P Y A				
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UniRef90_H2MFZ1	E R V N Q E L N T A K E K L E P Y A E T L K S H I Q E R R V E Q L L K Q E R L A P Y A				
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 E T Y N K A L V Q Q V E Q F R Q M L G P Y A
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 E T Y N K A L V Q Q V E Q F R Q M L G P Y A
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 E N L K A S I L S S I D Q A S K Q L A
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 D K V R Q T L T P V E M Q L R A H L T
 D K V R Q T L T P V E M Q L R A H L T
 D K V R Q T L T P V E M Q L R A H L T
 D K V R Q T L T P V E M Q L R A H L T
 D K V R Q T L T P V E M Q L R A H L T
 S T L
 S T L
 R D L H R N I Q G N L E Q L Q A K L S L Y
 R D L H R N I Q G N L E Q L Q A K L S L Y
 Q D L Q S Q L M S L Y Q S F
 Q D L Q S Q L M S L Y Q S F
 T Q
 E T F G K Q L V Q R L E E M R G K L E T G A A G
 E T F G K Q L V Q R L E E M R G K L E T G A A G
 E T F G K Q L V Q R L E E M R G K L E T G A A G
 E T F G K Q L V Q R L E E M R G K L E T G A A G
 R A S P E Q L N Q H I Q E L S A K L
 R A S P E Q L N Q H I Q E L S A K L
 R D L H Q K I Q R N L N H L K E Q L R L Y P S G
 R D L H Q K I Q R N L N H L K E Q L R L Y P S G
 S T L K E T E N Q D T
 S T L K E T E N Q D T
 S T L K E T E N Q D T
 S T L K E T E N Q D T
 E D V H S K L K G N T E G L Q K S L E
 E D V H S K L K G N T E G L Q K S L E
 E D V H S K L K G N T E G L Q K S L E
 E D V H S K L K G N T E G L Q K S L E
 Q D L K S Q L T A L W E S F A K S
 Q D L K S Q L T A L W E S F A K S
 E D L N K Q L D Q Q V E V F R R A V E P
 E D L N K Q L D Q Q V E V F R R A V E P
 E D L N K Q L D Q Q V E V F R R A V E P
 E D L N K Q L D Q Q V E V F R R A V E P
 D E L R D R A R V H V D A L R S Q L T P Y S E
 E P L V Q D M Q R Q W A G L V E K L
 D S F T K R
 D S F T K R
 Q N L K D Q L A T L Y E S F S K T
 Q N L K D Q L A T L Y E S F S K T
 Q D L Q A R L A S L Y E S F
 Q D L Q A R L A S L Y E S F
 R E L G E K A K P A F E D F R Q G L L P V L E
 R E L G E K A K P A F E D F R Q G L L P V L E
 R E L G E K A K P A F E D F R Q G L L P V L E
 E D L Q T S V L Q R T K M V Q Q S L A P Y A E
 E D L Q T S V L Q R T K M V Q Q S L A P Y A E
 E D L Q T S V L Q R T K M V Q Q S L A P Y A E
 E D L Q T S V L Q R T K M V Q Q S L A P Y A E
 K Q L R D R F V S V A K D A Q A K M
 K Q L R D R F V S V A K D A Q A K M
 V T V Q D Q M E Y L E K D I R D K
 V T V Q D Q M E Y L E K D I R D K
 V T V Q D Q M E Y L E K D I R D K
 V T V Q D Q M E Y L E K D I R D K
 V T V Q D Q M E Y L E K D I R D K
 V T V Q D Q M E Y L E K D I R D K
 E D L K E K L D P Y A Q D L Q A Q L
 E D L K E K L D P Y A Q D L Q A Q L
 R K L
 D E L K V K L Q V N A R D A K Q T L E P Y
 D E L K V K L Q V N A R D A K Q T L E P Y
 D E L K V K L Q V N A R D A K Q T L E P Y
 D E L K V K L Q V N A R D A K Q T L E P Y
 D S L D S E T L R
 E S L K T R F L N L D N L R K N L A
 E S L K T R F L N L D N L R K N L A
 E S L K T R F L N L D N L R K N L A
 E D V Q S K L K G N T E G L Q K S L E
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 E S Y V K
 E S Y V K
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 E S F K T G V L N V I D E A A K K L T
 Q D V K D R F E K T A E D M R S T L E D K M E

1 10 20 30
 Q L E V L T D A F W D Y I A K A T Q T A D D T L D M I K T S P I G Q E I N
 Q L T P L A D E L K A Q V E E Q S E L R R G L S S
 Q L T P L A D E L K A Q V E E Q S E L R R G L S S
 Q L T P L A D E L K A Q V E E Q S E L R R G L S S
 D E V Q R F I A Q Y A N K I A F H T D Q V K E I F H A D K L V A E I X
 D E V Q R F I A Q Y A N K I A F H T D Q V K E I F H A D K L V A E I X
 D E V Q R F I A Q Y A N K I A F H T D Q V K E I F H A D K L V A E I X
 A D E L L Q R F M A P Y A D K I A F H T D Q V K D I F Q T E R I L L T E I I R
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 A D E L L Q R F M A P Y A D K I A F H T D Q V K D I F Q T E R I L L T E I I R
 A Q S Y W D R I R D L A G V Y A E S L K D T S R D Q V A Q L E A S G L A K Q L N
 A K E R S T E Y Y L N E L Q T M V E E N T G D I I R T T K L R K R L T
 A K E R S T E Y Y L N E L Q T M V E E N T G D I I R T T K L R K R L T
 A K E R S T E Y Y L N E L Q T M V E E N T G D I I R T T K L R K R L T
 E D M K A K V Q Q R V E Q L K Q E L A P Y A E S V S V D T E A L R A T L M
 E D M K A K V Q Q R V E Q L K Q E L A P Y A E S V S V D T E A L R A T L M
 D Q V K E V V H P Y Y V A R L V T E I I H R N M E E L H R N M L M
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 D Q V K E V V H P Y Y V A R L V T E I I H R N M E E L H R N M L M
 W E A A M G R F R S Y L D Q L Q A R A E D L Q S E V Q S S Q L V K D R
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 D Q I N T Q T Q E M K L Q Q L T P Y I Q R M Q
 D Q I N T Q T Q E M K L Q Q L T P Y I Q R M Q

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

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

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

 L S A N S K E L L Q E K V D Q N E L L Q Q K V Q K V N
 L S A N S K E L L Q E K V D Q N E L L Q Q K V Q K V N
 L S A N S K E L L Q E K V D Q N E L L Q Q K V Q K V N
 L S A N S K E L L Q E K V D Q N E L L Q Q K V Q K V N

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

 Q N V E E L K G R L T P Y A D E L K V K I D Q T V E D L R R S
 Q N V E E L K G R L T P Y A D E L K V K I D Q T V E D L R R S
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 Q A E L E T Y R Q K V A
 Q A E L E T Y R Q K V A

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

 D L R R A L Q
 D L R R A L Q
 D L R R A L Q

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

	50	60	70	80
UniRef90_G3NCY2	E D V R V R V S A Y T R K M K K R L S K D T Q D I K R R V S D F L E E V Q			
UniRef90_H2MFX3	A R L T E S A D V A S R Y A V A L Q E Q L S P A A Q D M M N R I T K E A D V L K			
UniRef90_UPI000392D445	P Y A Q E L T A Q M E K A T E E E L R S R L A A S S E E L R T K K L S P L A E E L R			
UniRef90_UPI000392D445	P Y A Q E L T A Q M E K A T E E E L R S R L A A S S E E L R T K K L S P L A E E L R			
UniRef90_UPI000392D445	P Y A Q E L T A Q M E K A T E E E L R S R L A A S S E E L R T K K L S P L A E E L R			
UniRef90_UPI000392D445	P Y A Q E L T A Q M E K A T E E E L R S R L A A S S E E L R T K K L S P L A E E L R			
UniRef90_UPI0003D0FE1F	R N V E E L H R X V V P H T T A S P E K V D Q Y I Q Q E L L S S E K K L T Q N A R G G L H			
UniRef90_UPI0003D0FE1F	R N V E E L H R X V V P H T T A S P E K V D Q Y I Q Q E L L S S E K K L T Q N A R G G L H			
UniRef90_UPI0003D0FE1F	R N V E E L H R X V V P H T T A S P E K V D Q Y I Q Q E L L S S E K K L T Q N A R G G L H			
UniRef90_UPI000395822B	R N V E E L H R S V V A P H A R A S P E Q L N Q H I Q Q E L L S S A K K L T R N A R D D L H			
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UniRef90_UPI0003316CC2	L K L L D N F D T M S S S L G K L Q E Q V S P V A Q E L L A T T E K E T A G L R			
UniRef90_UPI000443B800	K D T E D I K D T V T T Y M S E I I Q S R T N Q N L D T V K E S V V E P Y V V E Q Q A R			
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UniRef90_UPI000443B800	K D T E D I K D T V T T Y M S E I I Q S R T N Q N L D T V K E S V V E P Y V V E Q Q A R			
UniRef90_G3T5B6	P Y M A E V H E R V G W N L E E G L R Q Q L K P Y T V Q L M E Q V A L R A R E L L Q			
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UniRef90_G3NGM5	Q K S E E L K T N L E Q S V K D Q A Q L G P Y T D D L K L K D Q H L Q D F K			
UniRef90_G3NGM5	Q K S E E L K T N L E Q S V K D Q A Q L G P Y T D D L K L K D Q H L Q D F K			
UniRef90_K7G3T1	P H T K V S P E K E K L N H Y I I Q E E L S S E K K L T Q N A K E E L H Q K K D Q H L K			
UniRef90_K7G3T1	P H T K V S P E K E K L N H Y I I Q E E L S S E K K L T Q N A K E E L H Q K K D Q H L K			
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UniRef90_P06728	T T I I K E N V D N L H T L A T N L K D K F N R N M E E L L K G H L T P R A N E E L L K			
UniRef90_P06728	T T I I K E N V D N L H T L A T N L K D K F N R N M E E L L K G H L T P R A N E E L L K			
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UniRef90_I3K835	D D D V R S R I S T Y T R K M K K R L L S K D T Q E I I K K H V A E Y F E E E L L Q			
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UniRef90_W5NWM2	P Y A Q D D V Q G K L N H Q L L E E G L A F Q M K K H A E E L K A K K I S A K A E E E L L R			
UniRef90_W5NWM2	P Y A Q D D V Q G K L N H Q L L E E G L A F Q M K K H A E E L K A K K I S A K A E E E L L R			
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UniRef90_G3WJB6	P L G H Q L R T S A Q D H I I E T T I I R E F V S P Y Q E E K L K D N L S Q K K L Q E E L L R			
UniRef90_G3WJB6	P L G H Q L R T S A Q D H I I E T T I I R E F V S P Y Q E E K L K D N L S Q K K L Q E E L L R			
UniRef90_G3WJB6	P L G H Q L R T S A Q D H I I E T T I I R E F V S P Y Q E E K L K D N L S Q K K L Q E E L L R			
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UniRef90_Q9TS49	K K L A D N W D T V S S A L L K A R E Q M K P I A M E F W G N L S E K D T E G L R			
UniRef90_C3PSW8	T K I N E R V V E E L K P Y T D D L K A K A I D Q H V E S L R R S L E P Y A Q D V E			
UniRef90_C3PSW8	T K I N E R V V E E L K P Y T D D L K A K A I D Q H V E S L R R S L E P Y A Q D V E			
UniRef90_C3PSW8	T K I N E R V V E E L K P Y T D D L K A K A I D Q H V E S L R R S L E P Y A Q D V E			
UniRef90_UPI000333E5E0	T K I N E R V V E E L K P Y T D D L K A K A I D Q H V E S L R R S L E P Y A Q D V E			
UniRef90_M3WFW9	S L K D G L E G D L S N M D K L L E K L G P L S G Q G R E P P E D P E A M R			
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UniRef90_UPI0003C28E5B	S L V E E L Q Q A Q L A R G T E E L R G Q Q L S P Y T E E L Q Q G N N L R R Q T L L E E G L G			
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UniRef90_F1SWE6	D K I T E S V K V A R Q Y A A V V Q D D Q V T V I G Q E S Y K K V S E Q V E R I L S			
UniRef90_J9P843	T L I S D S M A E L Q M Y S D D D M Q S K F G P Y A Q E T A E K K F H D D D L K L L M			
UniRef90_L5KMW3	P F A Q D D V Q E K L N H Q L L E E G L R Q R L A P V A E K V R G N N L R S N T E G L Q			
UniRef90_L5KMW3	P F A Q D D V Q E K L N H Q L L E E G L R Q R L A P V A E K V R G N N L R S N T E G L Q			
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UniRef90_M4ANU3	D Y I E E L Q S R A S D N M E S M K T R L D P Y F T Q V R D N A E A K I T T L N			
UniRef90_M4ANU3	D Y I E E L Q S R A S D N M E S M K T R L D P Y F T Q V R D N A E A K I T T L N			
UniRef90_M4ANU3	D Y I E E L Q S R A S D N M E S M K T R L D P Y F T Q V R D N A E A K I T T L N			
UniRef90_M4ANU3	D Y I E E L Q S R A S D N M E S M K T R L D P Y F T Q V R D N A E A K I T T L N			
UniRef90_H3BZ23	P Y A E K L R E K I I N Q H I E E E F Q K K L V P Y T E T T L L Q S R L F E K V Q E V R			
UniRef90_H3BZ23	P Y A E K L R E K I I N Q H I E E E F Q K K L V P Y T E T T L L Q S R L F E K V Q E V R			
UniRef90_H3BZ23	P Y A E K L R E K I I N Q H I E E E F Q K K L V P Y T E T T L L Q S R L F E K V Q E V R			
UniRef90_H3BZ23	P Y A E K L R E K I I N Q H I E E E F Q K K L V P Y T E T T L L Q S R L F E K V Q E V R			
UniRef90_H3BZ23	P Y A E K L R E K I I N Q H I E E E F Q K K L V P Y T E T T L L Q S R L F E K V Q E V R			
UniRef90_UPI00045DC9FB	S L K R S L L N N M D K F L E K L G P L N G Q G L E S L P L D P V G M R			
UniRef90_Q9PT73	T L I S D T M S E L L S A Y R N D L Q T K L S P Y A E M S T G Q T D Q L L A			
UniRef90_F71458	P Y A Q D A Q E K L N H Q L L E E G L A F Q M K K N A E E L K A R R L A P V A E D V H			
UniRef90_F71458	P Y A Q D A Q E K L N H Q L L E E G L A F Q M K K N A E E L K A R R L A P V A E D V H			
UniRef90_F71458	P Y A Q D A Q E K L N H Q L L E E G L A F Q M K K N A E E L K A R R L A P V A E D V H			
UniRef90_UPI0002C68AB6	P L S E E L R E G A R Q K L Q E K L S P L A Q E A R D R L R A H A V E E D V H			
UniRef90_UPI0002C68AB6	P L S E E L R E G A R Q K L Q E K L S P L A Q E A R D R L R A H A V E E D V H			
UniRef90_I1XUS4	T L I S D T M M E L L Q M Y K D D D L H T K L G P Y A Q E T A K R F N E D L Q L A			
UniRef90_H2TZ8	D D D V R A R V V S T Y T R K L K K R L S K D T Q E I K R H V S D Y F E D I Q			
UniRef90_H2TZ8	D D D V R A R V V S T Y T R K L K K R L S K D T Q E I K R H V S D Y F E D I Q			
UniRef90_W5MA33	E R S A E L L Q G R L L E G G V V E E L R A R L S P H A D E L L R A R I E Q R V Q E F R			
UniRef90_W5MA33	E R S A E L L Q G R L L E G G V V E E L R A R L S P H A D E L L R A R I E Q R V Q E F R			
UniRef90_W5MA33	E R S A E L L Q G R L L E G G V V E E L R A R L S P H A D E L L R A R I E Q R V Q E F R			
UniRef90_C1KBZ1	T R L K D S L L E Q N L N M D K F L E K L G P L N G Q L P D P V G M R			
UniRef90_F1SWE3	E K I T E S V E V A S Q Y R A L V Q D Q V V F S H E L H K R I E Q R V Q E F R			
UniRef90_UPI0003EC097D	T F I A T S D A I N T V T N T L H T Q V A P L A Q D F M S K F S Q E A E K L R			
UniRef90_UPI00046BFB8D	P F A Q D A Q E K L N H Q L L E E G L A F Q M K K N A D L L K T K L S S A D A E Q L R			
UniRef90_UPI00046BFB8D	P F A Q D A Q E K L N H Q L L E E G L A F Q M K K N A D L L K T K L S S A D A E Q L R			

	90	100	110	120
UniRef90_G3NCY2	S R G S S N M E D V R S R L D P Y F V Q V R D N A Q S Q A E N V K D K I Q T A A			
UniRef90_H2MFX3	N V L T Q E L S S V R G K L E P Y T D N M R A Q I Q Q R V I E K L K Q D I L S P Y A			
UniRef90_UPI000392D445	Q A A S S D V E S S L R Q R L A P L A Q Q L D E R V G Q G T L L E A F Q Q Q V A P F G			
UniRef90_UPI000392D445	Q A A S S D V E S S L R Q R L A P L A Q Q L D E R V G Q G T L L E A F Q Q Q V A P F G			
UniRef90_UPI000392D445	Q A A S S D V E S S L R Q R L A P L A Q Q L D E R V G Q G T L L E A F Q Q Q V A P F G			
UniRef90_UPI0003D0FE1F	Q K I Q R N L N H L K E Q L S L Y P G D L R E H F T S S P V D P R W L A E P Y V			
UniRef90_UPI0003D0FE1F	Q K I Q R N L N H L K E Q L S L Y P G D L R E H F T S S P V D P R W L A E P Y V			
UniRef90_UPI0003D0FE1F	Q K I Q R N L N H L K E Q L S L Y P G D L R E H F T S S P V D P R W L A E P Y V			
UniRef90_UPI000395822B	Q Q I Q R S L E Q L K A K L S P Y P G R L G A R V Q Q R R V E E F R Q D T Y A Q I			
UniRef90_UPI000395822B	Q Q I Q R S L E Q L K A K L S P Y P G R L G A R V Q Q R R V E E F R Q D T Y A Q I			
UniRef90_UPI000395822B	Q Q I Q R S L E Q L K A K L S P Y P G R L G A R V Q Q R R V E E F R Q D T Y A Q I			
UniRef90_UPI0003316CC2	A T V N K D L D L V K E K V Q P Y L D R F Q K K V Q V E E V Y R Q K V A P L N			
UniRef90_UPI000443B800	E S L E T Q A Q T I K T Q L E S S S M K E L S T S M D S K L L E E L T E L L S P Y A			
UniRef90_UPI000443B800	E S L E T Q A Q T I K T Q L E S S S M K E L S T S M D S K L L E E L T E L L S P Y A			
UniRef90_G3T5B6	E Q L R V V G E D T K A Q L L R M L Q E L L Q S R V A H H T G R V K A L F H P Y A			
UniRef90_G3T5B6	E Q L R V V G E D T K A Q L L R M L Q E L L Q S R V A H H T G R V K A L F H P Y A			
UniRef90_G3NGM5	E K V A P A T Q K V V Q S E E L T Q R A Q Q V K E I I A A P Y V I D D L R V R L D P Y A			
UniRef90_G3NGM5	E K V A P A T Q K V V Q S E E L T Q R A Q Q V K E I I A A P Y V I D D L R V R L D P Y A			
UniRef90_K7G3T1	E Q L R L Y P S G G L R E E Q V A P Y M E G G L A L E V Q Q R I E E F R R D T F L E I			
UniRef90_K7G3T1	E Q L R L Y P S G G L R E E Q V A P Y M E G G L A L E V Q Q R I E E F R R D T F L E I			
UniRef90_K7G3T1	E Q L R L Y P S G G L R E E Q V A P Y M E G G L A L E V Q Q R I E E F R R D T F L E I			
UniRef90_F6R0A1	A R L G A D M E D V G A R S L S Q Y H R E F H A V N H N L D E V R N R V S A Y L			
UniRef90_P06728	A T I D Q N L E D L R R S L A P L T V G V Q E K L N H Q M E G L A F Q M K K N A			
UniRef90_P06728	A T I D Q N L E D L R R S L A P L T V G V Q E K L N H Q M E G L A F Q M K K N A			
UniRef90_P06728	A T I D Q N L E D L R R S L A P L T V G V Q E K L N H Q M E G L A F Q M K K N A			
UniRef90_I3K835	S R T S E N V E D L K T R L D P Y F A Q V R D N A Q A K I T T L K D L L T S Q M			
UniRef90_I3K835	S R T S E N V E D L K T R L D P Y F A Q V R D N A Q A K I T T L K D L L T S Q M			
UniRef90_W5NWM2	Q G L V P V V N S V R E G G L Q K S L A E L S S S R L D D Q Q V T E D F R R T T V G P Y G			
UniRef90_W5NWM2	Q G L V P V V N S V R E G G L Q K S L A E L S S S R L D D Q Q V T E D F R R T T V G P Y G			
UniRef90_W5NWM2	Q G L V P V V N S V R E G G L Q K S L A E L S S S R L D D Q Q V T E D F R R T T V G P Y G			
UniRef90_G3WJB6	D K G L P S A S E Y Q A R M T Q H L K N I K E K V T P I L E D L K G T V D P I S			
UniRef90_G3WJB6	D K G L P S A S E Y Q A R M T Q H L K N I K E K V T P I L E D L K G T V D P I S			
UniRef90_G3WJB6	D K G L P S A S E Y Q A R M T Q H L K N I K E K V T P I L E D L K G T V D P I S			
UniRef90_UPI000395691A	E A A S G D A E S L R Q R L A P L A Q Q L E Q S V G H T L E T F R Q Q A A P F G			
UniRef90_UPI000395691A	E A A S G D A E S L R Q R L A P L A Q Q L E Q S V G H T L E T F R Q Q A A P F G			
UniRef90_UPI000395691A	E A A S G D A E S L R Q R L A P L A Q Q L E Q S V G H T L E T F R Q Q A A P F G			
UniRef90_Q9TS49	Q T V S K D L E L V K E K V Q P Y L D S F Q K K V E E E L Y R Q K V A P L S			
UniRef90_C3PSW8	G K L S H Q L Q G L A F Q M K K N A D D L K G K L T A K A E E L R Q K L G P A A			
UniRef90_C3PSW8	G K L S H Q L Q G L A F Q M K K N A D D L K G K L T A K A E E L R Q K L G P A A			
UniRef90_C3PSW8	G K L S H Q L Q G L A F Q M K K N A D D L K G K L T A K A E E L R Q K L G P A A			
UniRef90_UPI000333E5E0	G K L S H Q L Q G L A F Q M K K N A D D L K G K L T A K A E E L R Q K L G P A A			
UniRef90_M3WFW9	E Q L R V V G E G T K A Q L L G L L R E L L Q N L V A H H T G R V Q A L F D P Y A			
UniRef90_M3WFW9	E Q L R V V G E G T K A Q L L G L L R E L L Q N L V A H H T G R V Q A L F D P Y A			
UniRef90_I3N1R3	G R L D R Q V E E F R R S M E P Y G E D F N R A L V Q Q M E Q L R Q K L G P Y A			
UniRef90_I3N1R3	G R L D R Q V E E F R R S M E P Y G E D F N R A L V Q Q M E Q L R Q K L G P Y A			
UniRef90_I3N1R3	G R L D R Q V E E F R R S M E P Y G E D F N R A L V Q Q M E Q L R Q K L G P Y A			
UniRef90_W5KQL6	N K L N M H M E E A K D R M T E Y Q G E L Q T M V E Q N T E D V K N R V T S Y V			
UniRef90_UPI0003C28E5B	E R M D R I I D D F R Q H V A P H G E A F N Q K L V Q K L E E L R Q K L G S D T			
UniRef90_UPI0003C28E5B	E R M D R I I D D F R Q H V A P H G E A F N Q K L V Q K L E E L R Q K L G S D T			
UniRef90_F1SWE6	E R M D R I I D D F R Q H V A P H G E A F N Q K L V Q K L E E L R Q K L G S D T			
UniRef90_J9P843	G R L Q Q D I N E V R A Q L E P Y A E E L K E K V F Q R L Q E F Q Q S L A P L			
UniRef90_L5KMW3	Q E M S K D L E E V K Q K Q V P Y G E T F N K A L V V Q Q V E E L K Q K L G P Y T			
UniRef90_L5KMW3	K S L L A E Q V E E F R R N V Q P Y G E T F N K A L V V Q Q V E E L K Q K L G P Y T			
UniRef90_L5KMW3	K S L L A E Q V E E F R R N V Q P Y G E T F N K A L V V Q Q V E E L K Q K L G P Y T			
UniRef90_M4ANU3	E L L K T Q V D N V R D Q V Q T A G E D L R S A L G A K M E E L R N W F E P F V			
UniRef90_M4ANU3	E L L K T Q V D N V R D Q V Q T A G E D L R S A L G A K M E E L R N W F E P F V			
UniRef90_M4ANU3	E L L K T Q V D N V R D Q V Q T A G E D L R S A L G A K M E E L R N W F E P F V			
UniRef90_H3B2Z3	L N L L A P Y A E D L L Q D K L T P Y A D K L P E K L Q S L W A S F R Q S F N			
UniRef90_H3B2Z3	L N L L A P Y A E D L L Q D K L T P Y A D K L P E K L Q S L W A S F R Q S F N			
UniRef90_H3B2Z3	L N L L A P Y A E D L L Q D K L T P Y A D K L P E K L Q S L W A S F R Q S F N			
UniRef90_H3B2Z3	L N L L A P Y A E D L L Q D K L T P Y A D K L P E K L Q S L W A S F R Q S F N			
UniRef90_UPI00045DC9FB	Q Q L Q E E L E E V R A R L A P Y M A E T H E R V G W N L E G L R R Q K P Y T			
UniRef90_Q9PT73	N K L Q K D M V D A K E R S T Q Y L G E L K T M V E Q N T D D V R G R V T T Y S			
UniRef90_F71458	G N L R A N T E E L L Q K S L A E L G G H D R Q V I E E F R R Q V E P Y G			
UniRef90_F71458	G N L R A N T E E L L Q K S L A E L G G H D R Q V I E E F R R Q V E P Y G			
UniRef90_F71458	G N L R A N T E E L L Q K S L A E L G G H D R Q V I E E F R R Q V E P Y G			
UniRef90_UPI0002C68AB6	V Q M T P F S Q E L R Q R L A S R L Q E E L K A G G G A T L S Q Y Y A K V T A Q L			
UniRef90_UPI0002C68AB6	V Q M T P F S Q E L R Q R L A S R L Q E E L K A G G G A T L S Q Y Y A K V T A Q L			
UniRef90_I1XUS4	T K L R T H M E D A R D R V N E Y T E E L R T I V E Q N A D E V K N R V N T Y A			
UniRef90_H2TZZ8	T R T S D N M E N M R A Q F V P Y V S Q V Q D N A Q A K I T L N Q L L Q S Q V			
UniRef90_H2TZZ8	T R T S D N M E N M R A Q F V P Y V V S Q V Q D N A Q A K I T L N Q L L Q S Q V			
UniRef90_W5MA33	S G M A P Y A R S L Q E R L A Q S L A P Y A E E D L R G R L D P Y A			
UniRef90_W5MA33	S G M A P Y A R S L Q E R L A Q S L A P Y A E E D L R G R L D P Y A			
UniRef90_W5MA33	S G M A P Y A R S L Q E R L A Q S L A P Y A E E D L R G R L D P Y A			
UniRef90_C1KBZ5	Q Q L Q K E L E E V R K R L E P Y M T E M H E R V S W N L E G L R Q Q Q M Q K V R Q V D P Y T			
UniRef90_F1SWE3	E S L Q L D I N E V R V Q L E P L A E K L S A N I Q Q Q M Q K V R Q V D P Y T			
UniRef90_UPI0003EC097D	T Q M E T D L E A V R A R R L Q P Y T E E L L J A K V E E L K K D T A S Y A			
UniRef90_UPI00046BBF8D	R S L A P L A Q D V R G K L Q Q S L A Q L G S Q L D R K V E E F R R S V E P H G			
UniRef90_UPI00046BBF8D	R S L A P L A Q D V R G K L Q Q S L A Q L G S Q L D R K V E E F R R S V E P H G			
UniRef90_UPI00046BBF8D	R S L A P L A Q D V R G K L Q Q S L A Q L G S Q L D R K V E E F R R S V E P H G			

130 140

UniRef90_G3NCY2	Q D V K D R F E K T A E D M R S T L E D K M E
UniRef90_H2MFX3	D
UniRef90_UPI000392D445	E T Y G R Q L V E R L E E M R G K L D T G A T G
UniRef90_UPI000392D445	E T Y G R Q L V E R L E E M R G K L D T G A T G
UniRef90_UPI000392D445	E T Y G R Q L V E R L E E M R G K L D T G A T G
UniRef90_UPI000392D445	E T Y G R Q L V E R L E E M R G K L D T G A T G
UniRef90_UPI0003D0FE1F	E G L A R E V R M R V E E F R R
UniRef90_UPI0003D0FE1F	E G L A R E V R M R V E E F R R
UniRef90_UPI0003D0FE1F	E G L A R E V R M R V E E F R R
UniRef90_UPI000395822B	R A F T R A L D H E T E E M R L K L S
UniRef90_UPI000395822B	R A F T R A L D H E T E E M R L K L S
UniRef90_UPI000395822B	R A F T R A L D H E T E E M R L K L S
UniRef90_UPI0003316CC2	G E L R E G M R Q Q L V E W Q A K L V P L G E
UniRef90_UPI000443B800	T Q V R E H L E N V M Q K V K E T A T
UniRef90_UPI000443B800	T Q V R E H L E N V M Q K V K E T A T
UniRef90_UPI000443B800	T Q V R E H L E N V M Q K V K E T A T
UniRef90_G3T5B6	E R L V T G I G H H V Q Q L H R S V A P H A
UniRef90_G3T5B6	E R L V T G I G H H V Q Q L H R S V A P H A
UniRef90_G3NGM5	Q D L Q A Q L T S L Y E S F
UniRef90_G3NGM5	Q D L Q A Q L T S L Y E S F
UniRef90_K7G3T1	D D F T R T I D R E T E E I K F K L S P
UniRef90_K7G3T1	D D F T R T I D R E T E E I K F K L S P
UniRef90_K7G3T1	D D F T R T I D R E T E E I K F K L S P
UniRef90_K7G3T1	D D F T R T I D R E T E E I K F K L S P
UniRef90_F6R0A1	R K M R K R I G R D Y E E L Q S R L A T Y Q A G
UniRef90_P06728	E E L Q T K V S A K I D Q L Q K N L A P L V E
UniRef90_P06728	E E L Q T K V S A K I D Q L Q K N L A P L V E
UniRef90_P06728	E E L Q T K V S A K I D Q L Q K N L A P L V E
UniRef90_I3K835	E N M K L K I Q N T A E D I
UniRef90_I3K835	E N M K L K I Q N T A E D I
UniRef90_W5NWM2	E T F N K A M V Q Q L D A L R Q K L G P L A
UniRef90_W5NWM2	E T F N K A M V Q Q L D A L R Q K L G P L A
UniRef90_W5NWM2	E T F N K A M V Q Q L D A L R Q K L G P L A
UniRef90_W5NWM2	E T F N K A M V Q Q L D A L R Q K L G P L A
UniRef90_G3WJB6	Q K F K T E F L T M L E E A R K T L T T
UniRef90_G3WJB6	Q K F K T E F L T M L E E A R K T L T T
UniRef90_G3WJB6	Q K F K T E F L T M L E E A R K T L T T
UniRef90_UPI000395691A	E T F G K Q L V Q R L E E M R D K L D S G A A G
UniRef90_UPI000395691A	E T F G K Q L V Q R L E E M R D K L D S G A A G
UniRef90_UPI000395691A	E T F G K Q L V Q R L E E M R D K L D S G A A G
UniRef90_UPI000395691A	E T F G K Q L V Q R L E E M R D K L D S G A A G
UniRef90_Q9TS49	A E W R D R V R T H V D A L R T D L A P Y G E
UniRef90_C3PSW8	D L M H D K V K G N V E E G L Q K S L A
UniRef90_C3PSW8	D L M H D K V K G N V E E G L Q K S L A
UniRef90_C3PSW8	D L M H D K V K G N V E E G L Q K S L A
UniRef90_C3PSW8	D L M H D K V K G N V E E G L Q K S L A
UniRef90_UPI000333E5E0	S E L L D Q V A L R T Q E E Q L R L V G E G
UniRef90_M3WFW9	Q R L V S G I G R H V Q E E L H R S V A P H A
UniRef90_M3WFW9	Q R L V S G I G R H V Q E E L H R S V A P H A
UniRef90_I3N1R3	G D V E G H L S F L E K D L R D K V S
UniRef90_I3N1R3	G D V E G H L S F L E K D L R D K V S
UniRef90_I3N1R3	G D V E G H L S F L E K D L R D K V S
UniRef90_I3N1R3	G D V E G H L S F L E K D L R D K V S
UniRef90_W5KQL6	R K L K K R L S K D T Q E I N K K M E T Y
UniRef90_UPI0003C28E5B	G S V E D H L A F L E R D L R Q Q L S
UniRef90_UPI0003C28E5B	G S V E D H L A F L E R D L R Q Q L S
UniRef90_UPI0003C28E5B	G S V E D H L A F L E R D L R Q Q L S
UniRef90_F1SWE6	E S L H T E V A Q R A K A V Q Q T V A P Y V E
UniRef90_J9P843	
UniRef90_L5KMW3	G N V G G H L S F L E K D L R D K V
UniRef90_L5KMW3	G N V G G H L S F L E K D L R D K V
UniRef90_L5KMW3	G N V G G H L S F L E K D L R D K V
UniRef90_L5KMW3	G N V G G H L S F L E K D L R D K V
UniRef90_M4ANU3	T M I R E S M
UniRef90_M4ANU3	T M I R E S M
UniRef90_M4ANU3	T M I R E S M
UniRef90_H3B2Z3	
UniRef90_UPI00045DC9FB	V E L M E Q V A L R V Q E L Q E Q L R V V G E
UniRef90_Q9PT73	N K L K K R L N K D T E E I R N T V A T Y
UniRef90_F71458	E S F N K K A L V Q Q M E Q L R Q K L G P H
UniRef90_F71458	E S F N K K A L V Q Q M E Q L R Q K L G P H
UniRef90_F71458	E S F N K K A L V Q Q M E Q L R Q K L G P H
UniRef90_UPI0002C68AB6	K A L S E K A Q P P L E D L R Q G L Q P M L E
UniRef90_UPI0002C68AB6	K A L S E K A Q P P L E D L R Q G L Q P M L E
UniRef90_I1XUS4	K K L R K R F N K D I Q E I N K K M S T Y F E
UniRef90_H2TZ8	G S M K E G F E K T T E D L R S A L E D K M E
UniRef90_H2TZ8	G S M K E G F E K T T E D L R S A L E D K M E
UniRef90_W5MA33	Q D L R A Q L S S L W D S F Q K S
UniRef90_W5MA33	Q D L R A Q L S S L W D S F Q K S
UniRef90_W5MA33	Q D L R A Q L S S L W D S F Q K S
UniRef90_C1KBZ5	T E L M E Q V A L R V Q D L Q E Q L R V V G E
UniRef90_F1SWE3	E S L D T R A L E R A
UniRef90_UPI0003EC097D	E D
UniRef90_UPI00046BBF8D	E A F N K I L A Q Q V E E L K Q K L G P
UniRef90_UPI00046BBF8D	E A F N K I L A Q Q V E E L K Q K L G P
UniRef90_UPI00046BBF8D	E A F N K I L A Q Q V E E L K Q K L G P

The figure is a sequence logo plot showing the conservation of amino acids across UniRef90 entries. The x-axis represents positions 1 to 40, and the y-axis lists UniRef90 entries. Each position has four bars representing A, T, C, and G. The height of each bar indicates the frequency of that amino acid at that position. Colored bars (red, blue, green, yellow) highlight specific positions of interest.

UniRef90_UPI00046BBF8D
 UniRef90_UPI00046BBF8D
 UniRef90_UPI000314649
 UniRef90_G3GJY2
 UniRef90_G3GJY2
 UniRef90_F6TE34
 UniRef90_F6TE34
 UniRef90_F6TE34
 UniRef90_Q503V2
 UniRef90_F6TDB8
 UniRef90_F6TDB8
 UniRef90_F6TDB8
 UniRef90_UPI0003F062CB
 UniRef90_G5DZQ3
 UniRef90_G5DZQ3
 UniRef90_G5DZQ3
 UniRef90_G5DZQ3
 UniRef90_UPI0003990376
 UniRef90_UPI0003990376
 UniRef90_UPI0003990376
 UniRef90_UPI000387146E
 UniRef90_UPI000387146E
 UniRef90_UPI0003371C3
 UniRef90_H2LZF9
 UniRef90_H2LZF9
 UniRef90_Q5KSU4
 UniRef90_Q5KSU4
 UniRef90_Q5KSU4
 UniRef90_A4FUZ9
 UniRef90_A4FUZ9
 UniRef90_UPI0004419158
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 UniRef90_M4ANU1
 UniRef90_M4ANU1
 UniRef90_UPI0003AF43D6
 UniRef90_UPI0002A48910
 UniRef90_UPI0002A48910
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 UniRef90_UPI0002A48910
 UniRef90_H2DJB3
 UniRef90_H2DJB3
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 UniRef90_UPI000386F849
 UniRef90_Q6DDC5
 UniRef90_Q6DDC5
 UniRef90_L5M0Q1
 UniRef90_L5M0Q1
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 UniRef90_K7FZD8
 UniRef90_UPI000443D3A6
 UniRef90_UPI0003C29728
 UniRef90_UPI0003C29728
 UniRef90_A8E611

50 60 70 80

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

P H T H T Q D K L S Q Q V Q E L S Q K L T K N A R D L H E K I H K N L D E L K

UniRef90_UPI00046BBF8D R S | L | A P | L | A Q | D | V | R | G | K | L | Q | Q | S | L | A | Q | L | G | S | Q | L | D | R | K | V | E | E | F | R | R | S | V | E | P | H | G
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 UniRef90_UPI0003314649 A R | L | E | T | D | M | E | D | L | R | S | R | L | S | Q | Y | R | T | D | V | Q | S | M | L | G | Q | S | T | E | E | L | R | N | R | L | S | S | H | L
 UniRef90_G3GJY2 A K | I | Q | T | A | A | E | D | I | K | G | R | L | E | S | K | T | G | D | L | G | S | T | L | G | E | K | M | E | E | M | R | N | W | F | K | P | Y | V
 UniRef90_G3GJY2 A K | I | Q | T | A | A | E | D | I | K | G | R | L | E | S | K | T | G | D | L | G | S | T | L | G | E | K | M | E | E | M | R | N | W | F | K | P | Y | V
 UniRef90_F6TE34 E F | V | K | P | Y | H | E | Q | I | K | T | S | V | S | Q | K | I | Q | E | L | R | E | K | G | L | P | S | P | A | D | Y | Q | T | K | I | T | E | Q | L
 UniRef90_F6TE34 E F | V | K | P | Y | H | E | Q | I | K | T | S | V | S | Q | K | I | Q | E | L | R | E | K | G | L | P | S | P | A | D | Y | Q | T | K | I | T | E | Q | L
 UniRef90_F6TE34 E F | V | K | P | Y | H | E | Q | I | K | T | S | V | S | Q | K | I | Q | E | L | R | E | K | G | L | P | S | P | A | D | Y | Q | T | K | I | T | E | Q | L
 UniRef90_Q503V2 T M | V | E | Q | N | S | D | E | L | K | N | K | A | A | N | S | Y | A | K | K | L | R | K | R | F | N | K | D | I | Q | E | L | N | K | K | M | S | T | Y | L
 UniRef90_F6TDB8 Q K | K | L | T | P | F | A | E | D | I | Q | G | K | L | Y | Q | S | L | T | K | V | R | G | Q | M | N | Q | H | I | E | E | F | R | R | N | I | G | P | Q | G
 UniRef90_F6TDB8 Q K | K | L | T | P | F | A | E | D | I | Q | G | K | L | Y | Q | S | L | T | K | V | R | G | Q | M | N | Q | H | I | E | E | F | R | R | N | I | G | P | Q | G
 UniRef90_F6TDB8 UniRef90_UPI0003F062CB D | R | L | A | A | D | M | E | D | V | R | N | R | L | V | Q | Y | R | S | E | A | Q | T | V | L | G | Q | S | A | E | E | M | R | A | R | L | A | S | H | R
 UniRef90_G5DZQ3 K | E | I | D | H | Q | M | Q | E | L | Q | K | N | L | S | P | Y | A | E | E | M | Q | E | R | M | R | K | N | I | D | Q | V | D | T | K | V | K | E | F | T
 UniRef90_G5DZQ3 K | E | I | D | H | Q | M | Q | E | L | Q | K | N | L | S | P | Y | A | E | E | M | Q | E | R | M | R | K | N | I | D | Q | V | D | T | K | V | K | E | F | T
 UniRef90_G5DZQ3 K | E | I | D | H | Q | M | Q | E | L | Q | K | N | L | S | P | Y | A | E | E | M | Q | E | R | M | R | K | N | I | D | Q | V | D | T | K | V | K | E | F | T
 UniRef90_UPI0003990376 E | K | L | T | P | L | A | Q | D | F | K | E | R | L | A | P | Y | A | E | S | L | K | T | R | I | I | A | L | L | D | D | F | Q | K | R | V | A | S | A | A
 UniRef90_UPI0003990376 E | K | L | T | P | L | A | Q | D | F | K | E | R | L | A | P | Y | A | E | S | L | K | T | R | I | I | A | L | L | D | D | F | Q | K | R | V | A | S | A | A
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 UniRef90_UPI00033371C3 Q | M | L | N | Q | D | L | E | E | M | K | K | V | Q | P | H | L | D | E | F | Q | K | K | W | Q | E | E | V | E | L | Y | R | Q | K | V | A | P | L | Q | G
 UniRef90_H2LZF9 E | K | M | E | Q | S | L | E | D | F | Q | K | N | M | V | P | L | T | Q | T | F | E | I | Q | L | N | Q | K | A | Q | E | I | Q | Q | R | L | L | Q | S | G
 UniRef90_H2LZF9 UniRef90_UPI0003AF43D6 S | Q | L | N | Q | K | T | Q | E | I | Q | Q | S | L | I | P | Y | G | E | E | L | K | A | K | L | D | S | S | A | Q | D | V | Q | A | Q | L | A | A | L
 UniRef90_Q5KSU4 S | Q | L | N | Q | K | T | Q | E | I | Q | Q | S | L | I | P | Y | G | E | E | L | K | A | K | L | D | S | S | A | Q | D | V | Q | A | Q | L | A | A | L
 UniRef90_Q5KSU4 S | Q | L | N | Q | K | T | Q | E | I | Q | Q | S | L | I | P | Y | G | E | E | L | K | A | K | L | D | S | S | A | Q | D | V | Q | A | Q | L | A | A | L
 UniRef90_A4FUZ9 E | Q | L | R | V | V | G | E | G | T | K | A | Q | F | L | G | L | L | Q | E | L | Q | N | R | V | A | H | H | T | G | R | V | K | A | L | F | H | P | Y | A
 UniRef90_A4FUZ9 UniRef90_UPI0004419158 E | Q | L | R | V | V | G | E | G | T | K | A | Q | F | L | G | L | L | Q | E | L | Q | N | R | V | A | H | H | T | G | R | V | K | A | L | F | H | P | Y | A
 UniRef90_UPI0004419158 G | K | L | L | A | E | S | E | Q | L | R | E | K | L | D | T | H | L | A | S | L | K | G | D | F | G | K | Q | I | E | E | F | R | Q | R | V | G | S | Y | G
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 UniRef90_UPI0004419158 G | K | L | L | A | E | S | E | Q | L | R | E | K | L | D | T | H | L | A | S | L | K | G | D | F | G | K | Q | I | E | E | F | R | Q | R | V | G | S | Y | G
 UniRef90_M0R8A9 T | K | V | S | T | N | I | D | Q | L | Q | K | N | L | A | P | L | V | E | D | V | Q | S | K | L | K | G | N | T | E | G | L | L | Q | K | S | L |
 UniRef90_M0R8A9 T | K | V | S | T | N | I | D | Q | L | Q | K | N | L | A | P | L | V | E | D | V | Q | S | K | L | K | G | N | T | E | G | L | L | Q | K | S | L |
 UniRef90_M0R8A9 T | K | V | S | T | N | I | D | Q | L | Q | K | N | L | A | P | L | V | E | D | V | Q | S | K | L | K | G | N | T | E | G | L | L | Q | K | S | L |
 UniRef90_M4ANU1 UniRef90_UPI0003AF43D6 G | K | M | E | Q | S | L | E | D | F | Q | Q | N | V | V | P | L | A | Q | S | F | E | T | Q | V | A | Q | K | A | Q | E | L | Q | Q | S | L | V | Q | N | G
 UniRef90_M4ANU1 G | K | M | E | Q | S | L | E | D | F | Q | Q | N | V | V | P | L | A | Q | S | F | E | T | Q | V | A | Q | K | A | Q | E | L | Q | Q | S | L | V | Q | N | G
 UniRef90_UPI0003AF43D6 Q | E | M | H | K | D | L | E | E | V | R | Q | K | V | Q | P | Y | L | D | E | F | Q | E | G | A | R | Q | K | V | Q | E | L | Q | D | K | L | S | P | L | A
 UniRef90_UPI0002A48910 N | W | F | Q | P | Y | V | S | M | V | K | E | E | Q | L | G
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 S M I | R D G M
 S M I | R D G M
 K A L | K E K F | S P | I | L | E D | L | K T S A D | P
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E T Y G R Q | L | V | E | R | L | E | E | M | R | G | K | L | D | T | G | A | T | G
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 E D | L | K | A | Q | L | T | T | L | W | E | S | F
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UniRef90_W5KQK3	Q Q D M S T	V K S Q L E P Y V Q E V	M S N V Q Q Q V E Q L K K	E V A L Y A D	
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UniRef90_G3WJL0			K D K V H Q H V D D K M K C C	Q L T	
UniRef90_G3WJL0			K D K V H Q H V D D K M K C C	Q L T	
UniRef90_E2RE76	Q N V E E	L K G H L T P Y T D E L K V K I D Q N V E E	D Q N V E E L R R S	L A	
UniRef90_E2RE76	Q N V E E	L K G H L T P Y T D E L K V K I D Q N V E E	D Q N V E E L R R S	L A	
UniRef90_E2RE76	Q N V E E	L K G H L T P Y T D E L K V K I D Q N V E E	D Q N V E E L R R S	L A	
UniRef90_G3NCW8			K D K V H Q H V D D K M K C C	Q L T	
UniRef90_G3NCW8			K D K V H Q H V D D K M K C C	Q L T	
UniRef90UPI000350B95D	A D Q V A T V L W K Y F S E L G S N A K E T V D Q L Q Q A E I T K Q I N				
UniRef90_H8XWG6	Q N V E E L K E R L T P Y A D E F K V K I D Q T V E E L R R R S P Y A Q D A Q				
UniRef90_H8XWG6	Q N V E E L K E R L T P Y A D E F K V K I D Q T V E E L R R R S P Y A Q D A Q				
UniRef90_H8XWG6	Q N V E E L K E R L T P Y A D E F K V K I D Q T V E E L R R R S P Y A Q D A Q				
UniRef90_H8XWG6	Q N V E E L K E R L T P Y A D E F K V K I D Q T V E E L R R R S P Y A Q D A Q				
UniRef90_H8XWG6	Q N V E E L K E R L T P Y A D E F K V K I D Q T V E E L R R R S P Y A Q D A Q				
UniRef90_W5MGL6	Q A H L D Q Y R E K L E P I F Q E E L K K G Q E R I E E L K K E E L R E K V K				
UniRef90_W5MGL6	Q A H L D Q Y R E K L E P I F Q E E L K K G Q E R I E E L K K E E L R E K V K				
UniRef90_W5MGL6	Q A H L D Q Y R E K L E P I F Q E E L K K G Q E R I E E L K K E E L R E K V K				
UniRef90_K4G3B5	T R W E E A V D T F S L Y V I S H T T E E M M D R M K K S E I N Q E L E				
UniRef90UPI0003834511	V E S L K Q R L A P L A E Q L K A Q A G R S V A E L R Q Q E E V Q D G L L H				
UniRef90UPI0003834511	V E S L K Q R L A P L A E Q L K A Q A G R S V A E L R Q Q E E V Q D G L L H				
UniRef90UPI0003834511	V E S L K Q R L A P L A E Q L K A Q A G R S V A E L R Q Q E E V Q D G L L H				
UniRef90UPI0003834511	V E S L K Q R L A P L A E Q L K A Q A G R S V A E L R Q Q E E V Q D G L L H				
UniRef90UPI0003834511	V E S L K Q R L A P L A E Q L K A Q A G R S V A E L R Q Q E E V Q D G L L H				
UniRef90_M4AVZ8	Y T E E N L L K V I Q I R E R R V E Q L K Q E E L A P Y T E				
UniRef90_M4AVZ8	Y T E E N L L K V I Q I R E R R V E Q L K Q E E L A P Y T E				
UniRef90_W5KQL3	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E Q L K K E V A L Y A D				
UniRef90_W5KQL3	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E Q L K K E V A L Y A D				
UniRef90_C3PSW7			Q Q L Q E E L L K E V R A R L E		
UniRef90_C3PSW7			Q Q L Q E E L L K E V R A R L E		
UniRef90_M7ALC2	R L E Q V H K A F W E Y V A K A T S S T E K T M E L I R K S E E L G Q E I N				
UniRef90_H3C1G7	Q Q K S E E L L K A Q L E				
UniRef90_H3C1G7	Q Q K S E E L L K A Q L E				
UniRef90_H3C1G7	Q Q K S E E L L K A Q L E				
UniRef90_L8IIF0			Q Q K S E E L L K A Q L E		
UniRef90_A2V9Z8	S G Q P W E L A L G R F W D Y L R W V Q T L S E Q V Q E E L L S P Q V T Q E L T				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3TYV1	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_Q58EV2	L E E V K Q K V Q P Y L D E F Q K K W K E D V E L L Y R Q K V A				
UniRef90_Q58EV2	L E E V K Q K V Q P Y L D E F Q K K W K E D V E L L Y R Q K V A				
UniRef90_Q58EV2	L E E V K Q K V Q P Y L D E F Q K K W K E D V E L L Y R Q K V A				
UniRef90_Q58EV2	L E E V K Q K V Q P Y L D E F Q K K W K E D V E L L Y R Q K V A				
UniRef90_B5XCQ3	S Q Q Q L D M V K D A F W D Y V A K A T T A E D T L Q K I R Q S E E V A Q E V N				
UniRef90_G3UN60	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3UN60	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3UN60	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3UN60	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G3UN60	N A Q A E Q L R S Q L T P L A Q R M E T M L R E N M D N L L Q A S				
UniRef90_G1M247	T G Q P W E L A L A R F W D Y L R W V Q T M S E Q V Q E E M L S N R V I Q E L T				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90_W5KQL1	Q Q D L S T M K S Q L E P Y I Q E V M S N V Q Q Q V E E Q				
UniRef90UPI0003D07F15	A K W E E T V E V F R E Y V N R L S L A T D D I T E Q I T S S Q M G K E M D				
UniRef90_S5GDM7	Q L A Q D P E G M R K Q L Q L E E V R A R L E				
UniRef90_G3I7Q4	Q L A Q D P E G M R K Q L Q L E E V R A R L E				
UniRef90_G3I7Q4	Q L A Q D P E G M R K Q L Q L E E V R A R L E				
UniRef90_O42363			Q L R A K L E		
UniRef90_O42363			Q L R A K L E		
UniRef90_O42363			Q L R A K L E		
UniRef90_O42363			Q L R A K L E		
UniRef90_O42363			Q L R A K L E		
UniRef90_L9KRF8			E E L R Q Q L K		
UniRef90_L9KRF8			E E L R Q Q L K		
UniRef90_L9KRF8			E E L R Q Q L K		
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_W5KQK7	Q Q D M S T V K S Q L E P Y V Q E V M S N V Q Q Q V E Q L K K				
UniRef90_M4AVZ5	A K E R S T E Y L N E L K T M V E Q N T D D V R T T K L R K R L T				
UniRef90_M4AVZ5	A K E R S T E Y L N E L K T M V E Q N T D D V R T T K L R K R L T				
UniRef90_M4AVZ5	A K E R S T E Y L N E L K T M V E Q N T D D V R T T K L R K R L T				
UniRef90_M4AVZ5	A K E R S T E Y L N E L K T M V E Q N T D D V R T T K L R K R L T				
UniRef90_I3K836			M V		
UniRef90_I3K836			M V		
UniRef90_I3K836			M V		
UniRef90_G3RYJ6	D K L G E V N T Q A E Q L R R Q L I P Y T E R M E				
UniRef90_G3RYJ6	D K L G E V N T Q A E Q L R R Q L I P Y T E R M E				

50 60 70 80

UniRef90_A8E611	P H T H T Q D K L S Q Q V Q E L S Q K L T K N A R D L H E K I L H K N L D E L K			
UniRef90_I3K841	T K I S E S A D T V N Q Y V A T L H T Q V A P L T Q N F M T Q F S Q E A E Q L L R			
UniRef90_W5KQK3	M D A E T L K A T L L Q K S E E M K A S M E K T M M E M Q A Q L G P Q A E E L L K			
UniRef90_W5KQK3	M D A E T L K A T L L Q K S E E M K A S M E K T M M E M Q A Q L G P Q A E E L L K			
UniRef90_G3WJL0	P Y A D Q L Q E K I N Q H I A E E L Q K T L C P F A K G A Q E Q L N K N V D Q L R			
UniRef90_G3WJL0	P Y A D Q L Q E K I N Q H I A E E L Q K T L C P F A K G A Q E Q L N K N V D Q L R			
UniRef90_G3WJL0	P Y A D Q L Q E K I N Q H I A E E L Q K T L C P F A K G A Q E Q L N K N V D Q L R			
UniRef90_G3WJL0	P Y A D Q L Q E K I N Q H I A E E L Q K T L C P F A K G A Q E Q L N K N V D Q L R			
UniRef90_E2RE76	P Y A Q D V Q E K I N H Q L E E G L A F Q M K K N A E E L K A K I S A N A E E L R			
UniRef90_E2RE76	P Y A Q D V Q E K I N H Q L E E G L A F Q M K K N A E E L K A K I S A N A E E L R			
UniRef90_E2RE76	P Y A Q D V Q E K I N H Q L E E G L A F Q M K K N A E E L K A K I S A N A E E L R			
UniRef90_G3NCW8	V L Q V R S Q E L L R A Q L D K S M S Q L Q A Q M V P Y T E E I K K			
UniRef90_G3NCW8	V L Q V R S Q E L L R A Q L D K S M S Q L Q A Q M V P Y T E E I K K			
UniRef90_UPI000350B95D	T L L Q G N K S M N S Y T E E L Q R R L V P F A T E L L R G Q L T P L A D D L			
UniRef90_H8XWG6	E K L N H Q L E G L A F Q M K K N A E E L K A R I S A S A E E L R Q R L A P L A			
UniRef90_H8XWG6	E K L N H Q L E G L A F Q M K K N A E E L K A R I S A S A E E L R Q R L A P L A			
UniRef90_H8XWG6	E K L N H Q L E G L A F Q M K K N A E E L K A R I S A S A E E L R Q R L A P L A			
UniRef90_H8XWG6	E K L N H Q L E G L A F Q M K K N A E E L K A R I S A S A E E L R Q R L A P L A			
UniRef90_W5MGL6	A N V E E M K T K L T P I V E A V R A K L T E R L L E E L R K V A A P Y A E E Y R			
UniRef90_W5MGL6	A N V E E M K T K L T P I V E A V R A K L T E R L L E E L R K V A A P Y A E E Y R			
UniRef90_W5MGL6	A N V E E M K T K L T P I V E A V R A K L T E R L L E E L R K V A A P Y A E E Y R			
UniRef90_K4G3B5	G M I R T S M T E L N T H V Q S L Q E Q M A P Y T D G L L K E R F T S E M G T L E			
UniRef90_UPI0003834511	R Q L E A L T A Q M E R V A E E L R A R L D A S S E E L R A R L L S P L A Q E L L R			
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UniRef90_UPI0003834511	R Q L E A L T A Q M E R V A E E L R A R L D A S S E E L R A R L L S P L A Q E L L R			
UniRef90_M4AVZ8	S L D T E T L T T V I Q K S E E L K A Q L E Q S V Q E E L Q T H L G P Y T D D L K			
UniRef90_M4AVZ8	S L D T E T L T T V I Q K S E E L K A Q L E Q S V Q E E L Q T H L G P Y T D D L K			
UniRef90_W5KQL3	M D A E T L K T T L L Q K S E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQL3	M D A E T L K T T L L Q K S E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_C3PSW7	P Y M T E V H Q R V G W N L E G L R R Q L K P Y T A E L M E Q V A L R V E E L Q			
UniRef90_C3PSW7	P Y M T E V H Q R V G W N L E G L R R Q L K P Y T A E L M E Q V A L R V E E L Q			
UniRef90_M7ALC2	S R V S H S L A A A N T Y R T E L Q K Q L P L V A Q E L V I A K P S K G T T E E L Q			
UniRef90_H3C1G7	H N T K E L L Q A K M V P Y T E E M K Q K M E Q S L E D F Q S S L L P M A Q S F F Q			
UniRef90_H3C1G7	H N T K E L L Q A K M V P Y T E E M K Q K M E Q S L E D F Q S S L L P M A Q S F F Q			
UniRef90_H3C1G7	H N T K E L L Q A K M V P Y T E E M K Q K M E Q S L E D F Q S S L L P M A Q S F F Q			
UniRef90_L8IIF0	L K L L D N W D T L A S T L S K V R E Q L G P V T Q E F W D N L E K E T A S L R			
UniRef90_A2V9Z8	T L M D E T M K E L K A Y K S L E E E L K G S L I P V A E E T R A R L S K E L Q A A			
UniRef90_G3TYV1	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E E L K T T M I D Q N V E E E L			
UniRef90_G3TYV1	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3TYV1	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3TYV1	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3TYV1	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_Q58EV2	P L G A E L Q E S A R Q K Q L Q E E L Q G R R L S P V A E E F R D R M R T H V D S L			
UniRef90_Q58EV2	P L G A E L Q E S A R Q K Q L Q E E L Q G R R L S P V A E E F R D R M R T H V D S L			
UniRef90_Q58EV2	P L G A E L Q E S A R Q K Q L Q E E L Q G R R L S P V A E E F R D R M R T H V D S L			
UniRef90_B5XCQ3	T M V S E S A D A V N Q Y T V A M R G Q V T P L T Q D L L A K F S Q E A E Q L K			
UniRef90_G3UN60	S F T D E F K A N I N Q N V E E E L K G S L I P Y A D E E L K T T M I D Q N V E E E L			
UniRef90_G3UN60	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3UN60	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3UN60	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G3UN60	S F T D E F K A N I N Q N V E E E L K G S L I P y a d e e l k t t m i d q n v e e e l			
UniRef90_G1M247	A L M E D T L K E V K T Y T E E V E E Q L G P M T S E M Q A R V M K E L Q A A Q			
UniRef90_W5KQL1	K S E E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQL1	K S E E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQL1	K S E E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQL1	K S E E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQL1	K S E E E M K A S L E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_UPI0003D07F15	M L I K D X V A E L H A Y R K D V E E R L G P Q A V V M R E R L H T D V T V L G			
UniRef90_S5GDM7	S T A K L S S Y S E N L Q T Q M T P Y A S D A A G Q L S K D L V Q L L A			
UniRef90_G3I7Q4	P Y M A A K H E L V G W N L E G L R R Q L K P Y T V E L M E Q V G L S S V Q E L L			
UniRef90_G3I7Q4	P Y M A A K H E L V G W N L E G L R R Q L K P Y T V E L M E Q V G L S S V Q E L L			
UniRef90_O42363	P L M D D I R K A F E S N I E E T K S K V V P M V E A V R T K L T E R L L E D L			
UniRef90_O42363	P L M D D I R K A F E S N I E E T K S K V V P M V E A V R T K L T E R L L E D L			
UniRef90_O42363	P L M D D I R K A F E S N I E E T K S K V V P M V E A V R T K L T E R L L E D L			
UniRef90_O42363	P L M D D I R K A F E S N I E E T K S K V V P M V E A V R T K L T E R L L E D L			
UniRef90_L9KRF8	P Y T V E L M E Q V A L R A Q E E L Q E Q L R V V G E D T K A H L M G G V D E E V			
UniRef90_L9KRF8	P Y T V E L M E Q V A L R A Q E E L Q E Q L R V V G E D T K A H L M G G V D E E V			
UniRef90_L9KRF8	P Y T V E L M E Q V A L R A Q E E L Q E Q L R V V G E D T K A H L M G G V D E E V			
UniRef90_W5KQK7	M D A E T L K A T L L Q K S E E E M K A S M E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQK7	M D A E T L K A T L L Q K S E E E M K A S M E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQK7	M D A E T L K A T L L Q K S E E E M K A S M E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQK7	M D A E T L K A T L L Q K S E E E M K A S M E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_W5KQK7	M D A E T L K A T L L Q K S E E E M K A S M E K T M M E M Q A Q L G P Q A E E E L K			
UniRef90_M4AVZ5	K D T E D I R D T V S T Y M S E E I Q S R T T N Q N L D T V K E N V E P Y I E Q A R			
UniRef90_M4AVZ5	K D T E D I R D T V S T Y M S E E I Q S R T T N Q N L D T V K E N V E P Y I E Q A R			
UniRef90_M4AVZ5	K D T E D I R D T V S T Y M S E E I Q S R T T N Q N L D T V K E N V E P Y I E Q A R			
UniRef90_M4AVZ5	K D T E D I R D T V S T Y M S E E I Q S R T T N Q N L D T V K E N V E P Y I E Q A R			
UniRef90_I3K836	P Y T E E I K E K M Q E S L E E F Q T K L A P Y T Q E A A D R L G K D L Q L M A			
UniRef90_I3K836	P Y T E E I K E K M Q E S L E E F Q T K L A P Y T Q E A A D R L G K D L Q L M A			
UniRef90_I3K836	P Y T E E I K E K M Q E S L E E F Q T K L A P Y T Q E A A D R L G K D L Q L M A			
UniRef90_G3RYJ6	R V L R E N A D S L R A H A D E L K A K I D Q N V E E L K G R L T P Y A D E F F K			
UniRef90_G3RYJ6	R V L R E N A D S L R A H A D E L K A K I D Q N V E E L K G R L T P Y A D E F F K			

90 100 110 120

UniRef90_A8E611	Q Q L V S Y P H Q I K Q Q V A P Y V D E M A A Q V Q K E V E E F Q R S T K M Q I		
UniRef90_I3K841	A R L E K D L A A M G T N A E E M V A K I L Q T K V D E L K S G A E A Y A		
UniRef90_W5KQK3	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK3	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_G3WJL0	N K I I S D N A E D L K Q K L L C P C A E E M R G R V D R Q I D E F R R N M K P C G		
UniRef90_G3WJL0	N K I I S D N A E D L K Q K L L C P C A E E M R G R V D R Q I D E F R R N M K P C G		
UniRef90_G3WJL0	N K I I S D N A E D L K Q K L L C P C A E E M R G R V D R Q I D E F R R N M K P C G		
UniRef90_G3WJL0	N K I I S D N A E D L K Q K L L C P C A E E M R G R V D R Q I D E F R R N M K P C G		
UniRef90_E2RE76	Q R L A P V A E D V R G K L L K K S L A E L S S R L D D Q Q V I E E F R R N V G P Y G		
UniRef90_E2RE76	Q R L A P V A E D V R G K L L K K S L A E L S S R L D D Q Q V I E E F R R N V G P Y G		
UniRef90_E2RE76	Q R L A P V A E D V R G K L L K K S L A E L S S R L D D Q Q V I E E F R R N V G P Y G		
UniRef90_G3NCW8	E K M E Q S L D E F Q K S M V P L T Q S F E V Q L N N Q K T Q E I Q Q N L V Q R G		
UniRef90_G3NCW8	E K M E Q S L D E F Q K S M V P L T Q S F E V Q L N N Q K T Q E I Q Q N L V Q R G		
UniRef90_UP1000350B95D	G Q V A Q S V E G L R K G L S P Y A D E L R T R L A T N L E E L R S Q L S P L A		
UniRef90_H8XWG6	E D M R G N L R G N T E G G L Q K S L A E L G G H L D R R H V I E E F R L R V S P Y G		
UniRef90_H8XWG6	E D M R G N L R G N T E G G L Q K S L A E L G G H L D R R H V I E E F R L R V S P Y G		
UniRef90_H8XWG6	E D M R G N L R G N T E G G L Q K S L A E L G G H L D R R H V I E E F R L R V S P Y G		
UniRef90_H8XWG6	E D M R G N L R G N T E G G L Q K S L A E L G G H L D R R H V I E E F R L R V S P Y G		
UniRef90_W5MGL6	S K L G D A V S E V R E E K V G P M A Q N L R E K L E P Y K E D L S A K L S A L W		
UniRef90_W5MGL6	S K L G D A V S E V R E E K V G P M A Q N L R E K L E P Y K E D L S A K L S A L W		
UniRef90_W5MGL6	S K L G D A V S E V R E E K V G P M A Q N L R E K L E P Y K E D L S A K L S A L W		
UniRef90_K4G3B5	S R L R E D M D D I S Q R L I Q Y K E E M R L M A S Q N I A D T R Q R F S V Y S		
UniRef90_UP10003834511	S A A G G D A Q S L R E E R L A P L A Q E L E E R V G Q T L L E A F R Q Q A A P V G		
UniRef90_UP10003834511	S A A G G D A Q S L R E E R L A P L A Q E L E E R V G Q T L L E A F R Q Q A A P V G		
UniRef90_UP10003834511	S A A G G D A Q S L R E E R L A P L A Q E L E E R V G Q T L L E A F R Q Q A A P V G		
UniRef90_UP10003834511	S A A G G D A Q S L R E E R L A P L A Q E L E E R V G Q T L L E A F R Q Q A A P V G		
UniRef90_M4AVZ8	Q K V D Q H L E D F K Q R V A P V T E R V Q D H L T Q R A Q Q V K E I A A P Y V		
UniRef90_M4AVZ8	Q K V D Q H L E D F K Q R V A P V T E R V Q D H L T Q R A Q Q V K E I A A P Y V		
UniRef90_W5KQL3	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL3	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_C3PSW7	E Q L R V V G E D T K A Q V L G L Q E L Q D R V A H H T G R V K A L F H P Y A		
UniRef90_C3PSW7	E Q L R V V G E D T K A Q V L G L Q E L Q D R V A H H T G R V K A L F H P Y A		
UniRef90_M7ALC2	Q K G Q R S V E D L Q A G P A P Y A E E L S E K L Q S V E K L R S Q L G P F A		
UniRef90_H3C1G7	S Q L D Q K T T Q E I I Q Q S L V P Y G E E L L K A K L D T G A Q D L Q A Q L T A L F		
UniRef90_H3C1G7	S Q L D Q K T T Q E I I Q Q S L V P Y G E E L L K A K L D T G A Q D L Q A Q L T A L F		
UniRef90_H3C1G7	S Q L D Q K T T Q E I I Q Q S L V P Y G E E L L K A K L D T G A Q D L Q A Q L T A L F		
UniRef90_L8IIF0	Q E M H K D L E E E V K Q K V Q P Y L D E F Q K W H E E V E I Y R Q K V A P L G		
UniRef90_A2VZ8	A R L G A D M E V R A K L E E Q A Q Q S L Q A E A F Q A R K S W F E P L V		
UniRef90_G3TYV1	Q S L V P Y A Q D V P E E K L N H Q L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3TYV1	Q S L V P Y A Q D V P E E K L N H Q L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3TYV1	Q S L V P Y A Q D V P E E K L N H Q L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3TYV1	Q S L V P Y A Q D V P E E K L N H Q L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3TYV1	Q S L V P Y A Q D V P E E K L N H Q L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_Q58EV2	T Q L A P H S E Q M R E S S L A Q R L L A E L K E K A R P A L E D L R H S L M P M L		
UniRef90_Q58EV2	T Q L A P H S E Q M R E S S L A Q R L L A E L K E K A R P A L E D L R H S L M P M L		
UniRef90_Q58EV2	T Q L A P H S E Q M R E S S L A Q R L L A E L K E K A R P A L E D L R H S L M P M L		
UniRef90_B5XCQ3	A R L E K D L S T M T A K L Q P Y S D E L Q A Q L G P Y T E E K Q K M D P L T		
UniRef90_G3UN60	Q S L V P Y A Q D V P E E K L N H Q L L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3UN60	Q S L V P Y A Q D V P E E K L N H Q L L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3UN60	Q S L V P Y A Q D V P E E K L N H Q L L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G3UN60	Q S L V P Y A Q D V P E E K L N H Q L L E E G L A F Q M K K N A E M L K A K I I E A Q A		
UniRef90_G1M247	A R L R S D M E D V R S R L T Q Y R G E L Q G M L G Q S G D E R A R L T S H L		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_W5KQL1	Q K M E Q H M Q E F Q K T M I P M A E N L Q D Q L V H R S Q E M K E Q L D P Y A		
UniRef90_UP10003D07F15	E R L R V D M E E A K T R V Q Q Y L G E A R Q V A G Q N L E D V R S R V G T Y L		
UniRef90_S5GDM7	G K L Q T D M T D A K E R S T Q Y L Q E L K T M M E Q N A D D V K N R V G T Y T		
UniRef90_G31TQ4	E Q L R L V G E D T K A Q L L S L L Q E M Q N R V M H H T D R V K K L F H P Y A		
UniRef90_G31TQ4	E Q L R L V G E D T K A Q L L S L L Q E M Q N R V M H H T D R V K K L F H P Y A		
UniRef90_O42363	T M A A P Y A E E Y K E E Q L V K A V E E A R E K I A P H T Q D L Q T R M E P Y M		
UniRef90_O42363	T M A A P Y A E E Y K E E Q L V K A V E E A R E K I A P H T Q D L Q T R M E P Y M		
UniRef90_O42363	T M A A P Y A E E Y K E E Q L V K A V E E A R E K I A P H T Q D L Q T R M E P Y M		
UniRef90_O42363	T M A A P Y A E E Y K E E Q L V K A V E E A R E K I A P H T Q D L Q T R M E P Y M		
UniRef90_L9KRF8	S L L Q E L L Q S R V A P Y A E R L L V S G I G R H V Q E L H R S V A P H T		
UniRef90_L9KRF8	S L L Q E L L Q S R V A P Y A E R L L V S G I G R H V Q E L H R S V A P H T		
UniRef90_L9KRF8	S L L Q E L L Q S R V A P Y A E R L L V S G I G R H V Q E L H R S V A P H T		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_W5KQK7	Q K M E Q H M Q E F Q K T M I P M A E N F Q E R M T Q N A Q E M K K Q L D P Y A		
UniRef90_M4AVZ5	D S L E T Q A E T I R T Q L E S S S M K E L S T S M D S K L E E L T T E L L S P Y A		
UniRef90_M4AVZ5	D S L E T Q A E T I R T Q L E S S S M K E L S T S M D S K L E E L T T E L L S P Y A		
UniRef90_M4AVZ5	D S L E T Q A E T I R T Q L E S S S M K E L S T S M D S K L E E L T T E L L S P Y A		
UniRef90_M4AVZ5	D S L E T Q A E T I R T Q L E S S S M K E L S T S M D S K L E E L T T E L L S P Y A		
UniRef90_I3K836	D K L R E H M T E A R E Q M D K Y V Q E L Q T M M E Q N T D D V R S R I S T Y T		
UniRef90_I3K836	D K L R E H M T E A R E Q M D K Y V Q E L Q T M M E Q N T D D V R S R I S T Y T		
UniRef90_I3K836	D K L R E H M T E A R E Q M D K Y V Q E L Q T M M E Q N T D D V R S R I S T Y T		
UniRef90_G3RYJ6	V K I D Q T V E E L R R S L A P Y A Q D T Q E K L N H Q L A F Q L A P L A		
UniRef90_G3RYJ6	V K I D Q T V E E L R R S L A P Y A Q D T Q E K L N H Q L A F Q L A P L A		

130 140

UniRef90_A8E611	E D F T R T I N K E A E E M Q N K L S P
UniRef90_I3K841	Q A M D
UniRef90_W5KQK3	E D L K T Q T T L W E S F
UniRef90_W5KQK3	E D L K T Q L T T L W E S F
UniRef90_G3WJL0	E S F N K A L V H N L E E E L K Q K K L G P
UniRef90_G3WJL0	E S F N K A L V H N L E E E L K Q K K L G P
UniRef90_G3WJL0	E S F N K A L V H N L E E E L K Q K K L G P
UniRef90_G3WJL0	E S F N K A L V H N L E E E L K Q K K L G P
UniRef90_E2RE76	E T F N K A L L Q Q V E E L R Q K K L G P Y A
UniRef90_E2RE76	E T F N K A L L Q Q V E E L R Q K K L G P Y A
UniRef90_E2RE76	E T F N K A L L Q Q V E E L R Q K K L G P Y A
UniRef90_G3NCW8	E E L K A K L E V S A Q D L Q A Q L A
UniRef90_G3NCW8	E E L K A K L E V S A Q D L Q A Q L A
UniRef90_UP1000350B95D	L E L Q Q A L Q S D A E G L R E R L
UniRef90_H8XWG6	E N F N K A L V Q Q M E Q L R Q K L G P H A
UniRef90_H8XWG6	E N F N K A L V Q Q M E Q L R Q K L G P H A
UniRef90_H8XWG6	E N F N K A L V Q Q M E Q L R Q K L G P H A
UniRef90_H8XWG6	E N F N K A L V Q Q M E Q L R Q K L G P H A
UniRef90_H8XWG6	E N F N K A L V Q Q M E Q L R Q K L G P H A
UniRef90_W5MGL6	E T L A Q S L K Q
UniRef90_W5MGL6	E T L A Q S L K Q
UniRef90_W5MGL6	E T L A Q S L K Q
UniRef90_K4G3B5	R K L R V K A S E R V E V L R E T I E P Y A Q
UniRef90_UP10003834511	E A L G Q Q M V Q R L E D M R A K L E S G T A G
UniRef90_UP10003834511	E A L G Q Q M V Q R L E D M R A K L E S G T A G
UniRef90_UP10003834511	E A L G Q Q M V Q R L E D M R A K L E S G T A G
UniRef90_UP10003834511	E A L G Q Q M V Q R L E D M R A K L E S G T A G
UniRef90_UP10003834511	E A L G Q Q M V Q R L E D M R A K L E S G T A G
UniRef90_M4AVZ8	D N L R E R L D P Y A Q D L Q T R L T
UniRef90_M4AVZ8	D N L R E R L D P Y A Q D L Q T R L T
UniRef90_W5KQL3	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL3	E N L R A Q L T T L W E S F S K S
UniRef90_C3PSW7	E R L V T S I G R H V Q E L H R S V A P H A
UniRef90_C3PSW7	E R L V T S I G R H V Q E L H R S V A P H A
UniRef90_M7ALC2	Q E L S E R L Q Q P V Q E F Q Q G L E P Y M Q
UniRef90_H3C1G7	E A F S K K
UniRef90_H3C1G7	E A F S K K
UniRef90_H3C1G7	E A F S K K
UniRef90_L8IIF0	E E F R E G A R Q K V Q E L Q D K L S P L A Q
UniRef90_A2V9Z8	E D M Q R Q W A G L V E K V Q A A V
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_G3TYV1	N E L W Q R L E P A A E D V R G K L
UniRef90_Q58EV2	E T L K T K A Q S V I D K A S E T L T
UniRef90_Q58EV2	E T L K T K A Q S V I D K A S E T L T
UniRef90_Q58EV2	E T L K T K A Q S V I D K A S E T L T
UniRef90_Q58EV2	E T L K T K A Q S V I D K A S E T L T
UniRef90_B5XCQ3	Q S F Q T Q L T Q R T Q D L Q Q N A P Y G E
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G3UN60	N E L W Q R L E P A A E D V R G K L
UniRef90_G1M247	R K L R K R L R D A E D L Q K R A V Y R A G
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_W5KQL1	E N L R A Q L T T L W E S F S K S
UniRef90_UP10003D07F15	R K L K K R L N K D T E E I R N T V A T Y M S
UniRef90_S5GDM7	E R L V T G I G H H V Q E L H R S V A P H A A
UniRef90_G3I7Q4	E R L V T G I G H H V Q E L H R S V A P H A A
UniRef90_G3I7Q4	E N V R T
UniRef90_O42363	E N V R T
UniRef90_O42363	E N V R T
UniRef90_O42363	E N V R T
UniRef90_O42363	E N V R T
UniRef90_L9KRF8	P A S P K R L S R C V Q I L S R K L T
UniRef90_L9KRF8	P A S P K R L S R C V Q I L S R K L T
UniRef90_L9KRF8	P A S P K R L S R C V Q I L S R K L T
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_W5KQK7	E D L K T Q L T T L W E S F
UniRef90_M4AVZ5	T Q V R E
UniRef90_M4AVZ5	T Q V R E
UniRef90_M4AVZ5	T Q V R E
UniRef90_M4AVZ5	T Q V R E
UniRef90_I3K836	E E L Q S R T S E N V E D L K T R L D P Y F A
UniRef90_I3K836	E E L Q S R T S E N V E D L K T R L D P Y F A
UniRef90_I3K836	E E L Q S R T S E N V E D L K T R L D P Y F A
UniRef90_G3RYJ6	E D V R G N L R G N T E G L Q K S L A
UniRef90_G3RYJ6	E D V R G N L R G N T E G L Q K S L A

50 60 70 80

UniRef90_G3RYJ6	R V L R E N A D S L R A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_G3RYJ6	R V L R E N A D S L R A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_G3RYJ6	R V L R E N A D S L R A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_G1MVV8	P L A Q E L Q Q A L S A D A E A V R Q R L A P L A Q Q Q L D E R L A Q T V E A F R
UniRef90_G1MVV8	P L A Q E L Q Q A L S A D A E A V R Q R L A P L A Q Q Q L D E R L A Q T V E A F R
UniRef90_G1MVV8	P L A Q E L Q Q A L S A D A E A V R Q R L A P L A Q Q Q L D E R L A Q T V E A F R
UniRef90_F5BZM2	A K I T E S T D Q V N K Y V A T L Q A Q L A P L T Q D F I T K V T Q E A E Q L K
UniRef90_M3XI83	A D I E E I I R S Q V A P H T K E A F I K L S S H I L E Y R K N T Q P L I E E L K
UniRef90_M3XI83	A D I E E I I R S Q V A P H T K E A F I K L S S H I L E Y R K N T Q P L I E E L K
UniRef90_M3XI83	A D I E E I I R S Q V A P H T K E A F I K L S S H I L E Y R K N T Q P L I E E L K
UniRef90_Q98TG6	P L V K E Y T E K H K Q E M E E L K T K L Q P V V E D L R A R I Q V N V E E T K
UniRef90_Q98TG6	P L V K E Y T E K H K Q E M E E L K T K L Q P V V E D L R A R I Q V N V E E T K
UniRef90_Q98TG6	P L V K E Y T E K H K Q E M E E L K T K L Q P V V E D L R A R I Q V N V E E T K
UniRef90_H9GQY3	P L V K E Y T E K H K Q E M E E L K T K L Q P V V E D L R A R I Q V N V E E T K
UniRef90_L5KM50	A R V S D S A S A Q S Y Q A E L Q K H P P V A Q D L L
UniRef90_UPI00046B43AE	L L I E E T M K E V K A Y K E E L E K Q V G P I A Q E T Q A R L S K E L Q A A Q
UniRef90_UPI00046B43AE	T Q L L G G V D E A R G G L L Q D L Q S R V A H H T G R V K A L F H P Y A E S L V
UniRef90_Q13784	T Q L L G G V D E A R G G L L Q D L Q S R V A H H T G R V K A L F H P Y A E S L V
UniRef90_Q13784	R V L R E N A D S L Q A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_Q13784	R V L R E N A D S L Q A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_Q13784	R V L R E N A D S L Q A H A D E L K A K I D Q N V E E E L K G R L T P Y A D E F K
UniRef90_G3NCX3	T L I T E S A D A I N K L T N P W T Q V A P L T Q E L M S K F T Q E A E Q L K
UniRef90_UPI000395662B	P F S D E L R R Q K L S Q K L E E I R E K G I P Q A A E Y Q A K V G E Q L S S L
UniRef90_UPI000395662B	P F S D E L R R Q K L S Q K L E E I R E K G I P Q A A E Y Q A K V G E Q L S S L
UniRef90_UPI000395662B	P F S D E L R R Q K L S Q K L E E I R E K G I P Q A A E Y Q A K V G E Q L S S L
UniRef90_UPI000395662B	P F S D E L R R Q K L S Q K L E E I R E K G I P Q A A E Y Q A K V G E Q L S S L
UniRef90_UPI0004434201	P Y T Q E V H Q H V G W N L E E L R R R Q L K P Y T V E L M E R L A V G V Q Q L Q
UniRef90_UPI0004434201	P Y T Q E V H Q H V G W N L E E L R R R Q L K P Y T V E L M E R L A V G V Q Q L Q
UniRef90_P0DKW5	A L M D E T M K E L K A Y K S E L E E Q L S P V A E E T R A L S K E L Q A A H
UniRef90_UPI0004418A79	L N I G E K L E T L T T V L R E V K E Q V A P Q W Q E I T E L N N G W Q N L K
UniRef90_UPI00032A2C21	R H M A E Y R S Q L E P M V R E Y H A K H T A E M E E M K T K E P I M T E L R
UniRef90_UPI00032A2C21	R H M A E Y R S Q L E P M V R E Y H A K H T A E M E E M K T K E P I M T E L R
UniRef90_Q29258	T L F Q D K L G E V N T Y T E D L Q X K L V P F A T E L H E R T K D X E K L K
UniRef90_Q98SI3	I E P M R A E L
UniRef90_Q98SI3	I E P M R A E L
UniRef90_Q98SI3	I E P M R A E L
UniRef90_G1LPZ5	G K L R D N T Q E L Q K S L A E L S S H L D R Q V E E F R R S V G P Y G E T F N
UniRef90_G1LPZ5	G K L R D N T Q E L Q K S L A E L S S H L D R Q V E E F R R S V G P Y G E T F N
UniRef90_G1LPZ5	G K L R D N T Q E L Q K S L A E L S S H L D R Q V E E F R R S V G P Y G E T F N
UniRef90_G1LPZ5	G K L R D N T Q E L Q K S L A E L S S H L D R Q V E E F R R S V G P Y G E T F N
UniRef90_G1LPZ5	G K L R D N T Q E L Q K S L A E L S S H L D R Q V E E F R R S V G P Y G E T F N
UniRef90_Q6Y258	K D M L D A K E R S T E Y Y L G E L K T M M E Q N S S D D V R G R I S T Y T H K L
UniRef90_Q6Y258	K D M L D A K E R S T E Y Y L G E L K T M M E Q N S S D D V R G R I S T Y T H K L
UniRef90_Q6Y258	K D M L D A K E R S T E Y Y L G E L K T M M E Q N S S D D V R G R I S T Y T H K L
UniRef90_B6DUG8	P L L D D M R Q M F E S N I E E T K S K L V P M V E A V R T K L T E R L E E E L
UniRef90_B6DUG8	P L L D D M R Q M F E S N I E E T K S K L V P M V E A V R T K L T E R L E E E L
UniRef90_B6DUG8	P L L D D M R Q M F E S N I E E T K S K L V P M V E A V R T K L T E R L E E E L
UniRef90_B6DUG8	P L L D D M R Q M F E S N I E E T K S K L V P M V E A V R T K L T E R L E E E L
UniRef90_D9HUC8	I I R P F L D Q F S T K W T E E L E Q Y R Y R
UniRef90_D9HUC8	I I R P F L D Q F S T K W T E E L E Q Y R Y R
UniRef90_D9HUC8	I I R P F L D Q F S T K W T E E L E Q Y R Y R
UniRef90_O57523	P L I K E H I E L R R T E M E A F R A K K M E P I V E E E L R A K V A I N V E E E T K
UniRef90_O57523	P L I K E H I E L R R T E M E A F R A K K M E P I V E E E L R A K V A I N V E E E T K
UniRef90_G5BQH5	P L G K E L H K D A Q Q K L K E L Q E K L A P L G Q D I R Q R A R E Y V D A L R
UniRef90_G5BQH5	P L G K E L H K D A Q Q K L K E L Q E K L A P L G Q D I R Q R A R E Y V D A L R
UniRef90_M3XYH5	G K L R D N T Q E L Q K S L T E L L S S Q L D R Q V E E F R R N V G P Y G E T F N
UniRef90_M3XYH5	G K L R D N T Q E L Q K S L T E L L S S Q L D R Q V E E F R R N V G P Y G E T F N
UniRef90_M3XYH5	G K L R D N T Q E L Q K S L T E L L S S Q L D R Q V E E F R R N V G P Y G E T F N
UniRef90_M3XYH5	G K L R D N T Q E L Q K S L T E L L S S Q L D R Q V E E F R R N V G P Y G E T F N
UniRef90_Q8C7G5	P Y M A A K H Q Q V G W N L E G G L R Q Q L K P Y T A E L M E Q V G L S V Q E L Q
UniRef90_Q8C7G5	P Y M A A K H Q Q V G W N L E G G L R Q Q L K P Y T A E L M E Q V G L S V Q E L Q
UniRef90_H2MLX9	K H M E E Y R V Q L E P I V K E Y Q A R H T A E M E A L R V K M E P V V A E L R
UniRef90_H2MLX9	K H M E E Y R V Q L E P I V K E Y Q A R H T A E M E A L R V K M E P V V A E L R
UniRef90_H2MLX9	K H M E E Y R V Q L E P I V K E Y Q A R H T A E M E A L R V K M E P V V A E L R
UniRef90_O57524	P L I K D I V E Q R R T T E L E A F R V K I E P V V E E M R A K V S A N V E E T K
UniRef90_O57524	P L I K D I V E Q R R T T E L E A F R V K I E P V V E E M R A K V S A N V E E T K
UniRef90_O57524	P L I K D I V E Q R R T T E L E A F R V K I E P V V E E M R A K V S A N V E E T K
UniRef90_B3VTP4	R H I A E Y T R T Q L E P I T E Y Y N N K H T K D M E A L R V R L E P I A A D L R
UniRef90_B3VTP4	R H I A E Y T R T Q L E P I T E Y Y N N K H T K D M E A L R V R L E P I A A D L R
UniRef90_B3VTP4	R H I A E Y T R T Q L E P I T E Y Y N N K H T K D M E A L R V R L E P I A A D L R
UniRef90UPI0004541168	R S V Q D L Q E K L G P Y A S E L Q S Q V R Q L A Q Q L E E Q L
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UniRef90UPI0004541168	R S V Q D L Q E K L G P Y A S E L Q S Q V R Q L A Q Q L E E Q L
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UniRef90_G1PKJ5	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E E Q I D K H V E T L R
UniRef90_G1PKJ5	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E E Q I D K H V E T L R
UniRef90_G1PKJ5	P M A D E L Q G L I D Q N V K K K L K G Q L T P Y A D N L K E E Q I D K H V E T L R
UniRef90_C1BLA4	A N V E E T K A V L V P M V E T V R A K L T E R L E E E L R T M A A P Y A E E Y K
UniRef90_C1BLA4	A N V E E T K A V L V P M V E T V R A K L T E R L E E E L R T M A A P Y A E E Y K
UniRef90_C1BLA4	A N V E E T K A V L V P M V E T V R A K L T E R L E E E L R T M A A P Y A E E Y K
UniRef90_C1BLA4	A N V E E T K A V L V P M V E T V R A K L T E R L E E E L R T M A A P Y A E E Y K
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E	D	V	R	G	N	L	R	G	N	T	E	G	L	Q	K	S	L	A	
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E	D	V	R	G	N	L	R	G	N	T	E	G	L	Q	K	S	L	A	
K	E	V	R	E	K	V													
K	E	V	R	E	K	V													
K	E	V	R	E	K	V													
K	E	V	R	E	K	V													
D	V	I	Q	K	K	I	S	S	S	V	E	D	I	W	K	T	V	T	P
D	V	I	Q	K	K	I	S	S	S	V	E	D	I	W	K	T	V	T	P
D	V	I	Q	K	K	I	S	S	S	V	E	D	I	W	K	T	V	T	P
E	E	L	K	T	K	L	V	A	L	W	E	S	L						
E	E	L	K	T	K	L	V	A	L	W	E	S	L						
E	E	L	K	T	K	L	V	A	L	W	E	S	L						
E	E	L	K	T	K	L	V	A	L	W	E	S	L						
E	D	L	E	Q	A	E	Q	H	T	Q	S	L	R	Q	A	L			
R	K	L	R	K	R	L	L	R	D	A	E	D	L	Q	K	R	L	A	V
R	A	L	H	T	R	I	Q	R	N	L	D	Q	L	R	E	E	L	S	
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T	A	L	K	E	K	I	H	P	L	T	E	D	I	K	A	K	L		
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K	S	L	R	E	K	F	G	P	N	W	E	E	T	K	S	K	L	M	P
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Q	Q	A	S	E	T	A	N	Q	K	L	S	D	I	S	T	L	L	R	S
E	N	V	R	A	R	R	L	A	Q										
E	E	N	V	R	A	R	L	A	Q										
E	E	N	V	R	A	R	L	A	Q										
E	E	N	V	R	A	R	L	A	Q										
E	E	E	L	R	K	N	L	A	P	Y	S	D	E	L	R	Q	K	L	S
E	E	E	L	R	K	N	L	A	P	Y	S	D	E	L	R	Q	K	L	S
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E	N	V	R	S	K	M	A	G	G	A	T	D	L	Q	E	A	L	A	
E	N	V	R	S	K	M	A	G	G	A	T	D	L	Q	E	A	L	A	
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E	E	V	K	A	K	L	Q	A	L	Y	V	A	L	S	E	S	L		
E	E	V	K	A	K	L	Q	A	L	Y	V	A	L	S	E	S	L		
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Q	E	Y	R	D	H	A	Q	T	V	F	G	Q	L	Q	S	K			
Q	E	Y	R	D	H	A	Q	T	V	F	G	Q	L	Q	S	K			
E	D	L	K	Q	K	L	E	T	N	F	E	E	T	K	S	K	L	V	P
E	D	L	K	Q	K	L	E	T	N	F	E	E	T	K	S	K	L	V	P
E	D	L	K	Q	K	L	E	T	N	F	E	E	T	K	S	K	L	V	P
E	D	L	K	Q	K	L	E	T	N	F	E	E	T	K	S	K	L	V	P

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 P S E [L] E H F R S A L S M Y [L] D R A K E R A H S A L A T [L] D D A E Y K E [L] K
 R L G G
 R L G G
 M Q Q K L T
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 M Q Q K L T
 M Q Q K L T

A R K G F W D Y F S Q S S G D K G K [V] E Q Q Q K [L] A R E P P S [L] K

D [L] R K Q [L] E
 D [L] R K Q [L] E
 D [L] R K Q [L] E
 G N Q P W E Q A [L] G R [L] W D Y [L] R W [V] Q T [L] S N K A Q E E [L] G T Q V T E E [L] T

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 M K N G F Q Q R L Y Q D S D G L R V I H R E L Q E L R Q K I Y
 M K N G F Q Q R L Y Q D S D G L R V I H R E L Q E L R Q K I Y

E P K R A K [L] R E [V] L E
 E P K R A K [L] R E [V] L E
 E P K R A K [L] R E [V] L E
 E Y R K K [L] E
 E Y R K K [L] E
 E Y R K K [L] E

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 Q E [L] S T [V] R N R [L] E P Y T E T M K A K I [Q] E R V [E] Q [L] K Q D [L] A T Y A D S

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 N A F W T Y I F Q T [V] N T S D E T S Q M T S A S Q

L K E [V] I T
 L K E [V] I T
 L K E [V] I T
 K [L] T P [V] A E E A R D R [L] R G H E L R K N V A
 K [L] T P [V] A E E A R D R [L] R G H E L R K N V A
 K [L] T P [V] A E E A R D R [L] R G H E L R K N V A
 K [L] T P [V] A E E A R D R [L] R G H E L R K N V A
 R A S E L K A T I D
 R A S E L K A T I D
 L Q

D Y R T Q [L] E
 S E Y S A K H S

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UniRef90_I3KIR4	P V I S E Y Y A K H T A E M D E L K T K L E P I M T E L R E K I R T N V E E T K
UniRef90_I3KIR4	P V I S E Y Y A K H T A E M D E L K T K L E P I M T E L R E K I R T N V E E T K
UniRef90_E3TCY1	P I F R D Y M V D N Q K E L E S L R Q K L Q P A L E D L K A K V E T N F E E T K
UniRef90_E3TCY1	P I F R D Y M V D N Q K E L E S L R Q K L Q P A L E D L K A K V E T N F E E T K
UniRef90_G3WJV1	P Y T Q E V H Q H V G W N L E G L R R Q L K P Y T L E L V E R L A L G V Q E L
UniRef90_G3WJV1	P Y T Q E V H Q H V G W N L E G L R R Q L K P Y T L E L V E R L A L G V Q E L
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UniRef90_D5G338	A D M E E V R S R L A Q Y R S E A Q A M L G Q N V E E L R A R L T S S H L R K L H
UniRef90_D5G338	A D M E E V R S R L A Q Y R S E A Q A M L G Q N V E E L R A R L T S S H L R K L H
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UniRef90_O42296	P V A E E A R D R L R G H V E E L R K N L A P Y S D E L R Q K L S Q K L E E I R
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UniRef90_G0TS51	P Y M E P M R G A I P P Y M E P M P G A T P P Y M E P L P G A T P P Y T G P l
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UniRef90_D6R712	R M E E I R T K L E P V V K S L L K E K I G P N W E E T K S K L M P i l e a v
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UniRef90_UP1000443BEA7	L V Q Y H T D V Q T L V G Q S T E E L R N R L Y S H L R K L
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UniRef90_P27007	P L I K Q H I E L R R T E M D A F R A K I D P V V E E M R A K V A V N V E E T K
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UniRef90_D3TJL9	K H L E D Y R A Q L E P I F N E Y S T R H A A E M E T L K T K L E P V V E T Q R
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UniRef90_V8PGT4	V X T T A E N L K T Q L V P Y V E E Q L Q A T T D I L A T Q T Q T G
UniRef90_V8PGT4	V X T T A E N L K T Q L V P Y V E E Q L Q A T T D I L A T Q T Q T G
UniRef90_U5KLT9	P I I N D Y S A K H A A E M D T L K T K M E P V M E G L R T K I A T N V E E T K
UniRef90_U5KLT9	P I I N D Y S A K H A A E M D T L K T K M E P V M E G L R T K I A T N V E E T K
UniRef90_U5KLT9	P I I N D Y S A K H A A E M D T L K T K M E P V M E G L R T K I A T N V E E T K
UniRef90_U5KLT9	P I I N D Y S A K H A A E M D T L K T K M E P V M E G L R T K I A T N V E E T K
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A A L T P I V E A V V S G R L N E R L Q N L K D L A N P V A E E Y K E H V L K A V
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E Q L K L L G E D T K N Q L L G L L Q E F Q D Q V A H H T G R V K A L F H P Y A
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T S I Q T D F K T L Q D E T A A Q R E K L R A V V E Q H L S E Y R T L L Q P I V
T S I Q T D F K T L Q D E T A A Q R E K L R A V V E Q H L S E Y R T L L Q P I V
K R L L R D A E D L Q K Q R L A V Y K A G A Q E G V E R G V M P L L
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UniRef90_Q6Q788

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V K Q R Q H M E E V R A K L E P V V L S L K E K I P P N W E E T K S K L M P I V E I V R E K L T E Q L
V K Q R Q H M E E V R A K L E P V V L S L K E K I P P N W E E T K S K L M P I V E I V R E K L T E Q L
T K L E P V F K S L L Q E K I G P N W E E T K S K L M P I V E I V R E K L T E Q L
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 E R G R | V | R | A
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UniRef90_W6W4C6	L G			

UniRef90_G3NRQ2 A D M E A L | R G K M Q P | I V A D L | Q N K V S V N V E E T K A A L I | P | V E A V R
UniRef90_G3NRQ2 A D M E A L | R G K M Q P | I V A D L | Q N K V S V N V E E T K A A L I | P | V E A V R
UniRef90_G3NRQ2 A D M E A L | R G K M Q P | I V A D L | Q N K V S V N V E E T K A A L I | P | V E A V R
UniRef90_C8CPA4 P M T D S V V S T L S D V T A D L | R T S I A A D I D A L | R A D L | E P P K R A K L R
UniRef90_C8CPA4 P M T D S V V S T L S D V T A D L | R T S I A A D I D A L | R A D L | E P P K R A K L R
UniRef90_UP10003314C81 S L K D S L E Q D L N T V D T L | L E K L | G P L G G Q G R E S L | P H D P V A V R
UniRef90_D1MFA6 P F I E E Y L V K Q R Q H M E E V R T K L | E P V V K T L | K E R I | G P N W E E T K
UniRef90_D1MFA6 P F I E E Y L V K Q R Q H M E E V R T K L | E P V V K T L | K E R I | G P N W E E T K
UniRef90_D1MFA6 P F I E E Y L V K Q R Q H M E E V R T K L | E P V V K T L | K E R I | G P N W E E T K
UniRef90_1ISR77 K H M E E Y R T H E P | V K E H Q A K H T A D M E A L | R V K M E P | V A E L L R
UniRef90_1ISR77 K H M E E Y R T H E P | V K E H Q A K H T A D M E A L | R V K M E P | V A E L L R
UniRef90_1ISR77 K H M E E Y R T H E P | V K E H Q A K H T A D M E A L | R V K M E P | V A E L L R
UniRef90_C3KJ42 R H I D Q Y Y Q A L E P | P L I T E Y S S S K H Q A D M E V L | R V K M E P | V E D M R
UniRef90_C3KJ42 R H I D Q Y Y Q A L E P | P L I T E Y S S S K H Q A D M E V L | R V K M E P | V E D M R
UniRef90_C3KJ42 R H I D Q Y Y Q A L E P | P L I T E Y S S S K H Q A D M E V L | R V K M E P | V E D M R
UniRef90_B7NZL9 H E L V G S N L E E G L | R Q Q L | K P Y T Q E L | M E Q V A L Q A Q E L L Q
UniRef90_B7NZL9 H E L V G S N L E E G L | R Q Q L | K P Y T Q E L | M E Q V A L Q A Q E L L Q
UniRef90_UP100033D05D H K Q V G W N L E E G L | R Q Q L | K P Y T I E L | M E Q V A S R V Q E L L Q
UniRef90_UP100033D05D H K Q V G W N L E E G L | R Q Q L | K P Y T I E L | M E Q V A S R V Q E L L Q
UniRef90_Q5DVG8 P | I K D Y H T K H T A D M D A L | K I K L | Q P V V D A M K T S V A A N V E E T K
UniRef90_Q5DVG8 P | I K D Y H T K H T A D M D A L | K I K L | Q P V V D A M K T S V A A N V E E T K
UniRef90_Q5DVG8 P | I K D Y H T K H T A D M D A L | K I K L | Q P V V D A M K T S V A A N V E E T K
UniRef90_Q5KSU3 T F I T G T T E A F Q K | L T N G | R T Q | V A P M A Q D | L V S K F S E E A E R | L K
UniRef90_V9LJR9 M T P | L A Q Q F | R T K | V T E D G E R | L L Q
UniRef90_V9LJR9 M T P | L A Q Q F | R T K | V T E D G E R | L L Q
UniRef90_V9LJR9 M T P | L A Q Q F | R T K | V T E D G E R | L L Q
UniRef90_V9LJR9 M T P | L A Q Q F | R T K | V T E D G E R | L L Q
UniRef90_Q6Y255 T N L A Q R | I E E M Y T Q | K T | L | Q S S V | S P | M T D S F Y S T V | M E V | T K D T R
UniRef90_F8K8M3 A L G E Q | L L D A | T T T L | S R Q I | M T S V Q E L | H K Q L | E P K Q A E L L T
UniRef90_F8K8M3 A L G E Q | L L D A | T T T L | S R Q I | M T S V Q E L | H K Q L | E P K Q A E L L T
UniRef90_F8K8M3 A L G E Q | L L D A | T T T L | S R Q I | M T S V Q E L | H K Q L | E P K Q A E L L T
UniRef90_B6DUG7 V F L G Q S | V D N | L | H G Y F Q T M | R E K W T K D L | E D L | R K | I | E P K R E E L L R
UniRef90_V8NF06 L I T D T | G E V E S Y T E D | L | S S K F G P Y T Q E L | Q E R L | M T E V S S L Y R
UniRef90_O42175 K D T R E S | L N V D | L E A L | K S S S | A P Q N E Q L | K Q V I | E K H N D Y R
UniRef90_O42175 K D T R E S | L N V D | L E A L | K S S S | A P Q N E Q L | K Q V I | E K H N D Y R
UniRef90_O42175 K D T R E S | L N V D | L E A L | K S S S | A P Q N E Q L | K Q V I | E K H N D Y R
UniRef90_B5TFN2 A D I E A L | K A D L | A P K Q V Q | K E V I | D K H | I S E Y R T L | M D P | I L T E Y Y Y
UniRef90_B5TFN2 A D I E A L | K A D L | A P K Q V Q | K E V I | D K H | I S E Y R T L | M D P | I L T E Y Y Y
UniRef90_L5M2H9 UniRef90_L5M2H9 L T V | E K L | D T | L S N K V A D | Q K Q L | P V A Q T | I W D K L | K K E G M L T
UniRef90_UP100038E9E03 D S L | K Q E | L S N M N T | F L | E K L | G S L | S G Q | V R P Q L | A P | A Q D V R
UniRef90_UP100038E9E03 D S L | K Q E | L S N M N T | F L | E K L | G S L | S G Q | V R P Q L | A P | A Q D V R
UniRef90_W4EPX7 T K V | E E A Q A T | V E T E V E E | V Q A T | V E T K V | V E E | V Q A T | V E T E E | V E E V Q
UniRef90_W4EPX7 T K V | E E A Q A T | V E T E V E E | V Q A T | V E T K V | V E E | V Q A T | V E T E E | V E E V Q
UniRef90_W4EPX7 T K V | E E A Q A T | V E T E V E E | V Q A T | V E T K V | V E E | V Q A T | V E T E E | V E E V Q
UniRef90_W4EPX7 T K V | E E A Q A T | V E T E V E E | V Q A T | V E T K V | V E E | V Q A T | V E T E E | V E E V Q
UniRef90_E1NZA4 P | I Q D Y H A K N K V | Q M D A L | K L | K | D P | V L | E T M K T K | V A E N V E E T K
UniRef90_E1NZA4 P | I Q D Y H A K N K V | Q M D A L | K L | K | D P | V L | E T M K T K | V A E N V E E T K
UniRef90_D9ZB55 UniRef90_D9ZB55 L | E Y R E E L | M Q P | I F N E Y Y T K | H T S E M E A L | R L | K L | P V L | E D L R
UniRef90_UP10003EC4EB8 D D | V R S R | I A T Y T R K M K K R | L S K D T Q E | I K R | H V T E Y F E E I Q
UniRef90_UP10003EC4EB8 D D | V R S R | I A T Y T R K M K K R | L S K D T Q E | I K R | H V T E Y F E E I Q
UniRef90_H2U002 Q S L | E E F Q | V N M A T | I A Q S F E S Q L | N Q K S Q E | I Q Q S L | A P Y G E E L L R
UniRef90_H2U002 Q S L | E E F Q | V N M A T | I A Q S F E S Q L | N Q K S Q E | I Q Q S L | A P Y G E E L L R
UniRef90_C1BKM7 P | L V Q E E Y V L | K Q R E E | M D A L | R A K T | E P M L | V S L | R E K T | T E P | L D E M R
UniRef90_C1BKM7 P | L V Q E E Y V L | K Q R E E | M D A L | R A K T | E P M L | V S L | R E K T | T E P | L D E M R
UniRef90_C1BKM7 P | L V Q E E Y V L | K Q R E E | M D A L | R A K T | E P M L | V S L | R E K T | T E P | L D E M R
UniRef90_B5TFN1 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_B5TFN1 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_B5TFN1 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_D3U1R9 K H I | E E Y R E E L | M Q P | I F N E Y Y T K | H T S E M E A L | R L | K L | P V L | E D L R
UniRef90_D3U1R9 K H I | E E Y R E E L | M Q P | I F N E Y Y T K | H T S E M E A L | R L | K L | P V L | E D L R
UniRef90_D3U1R9 K H I | E E Y R E E L | M Q P | I F N E Y Y T K | H T S E M E A L | R L | K L | P V L | E D L R
UniRef90_UP10003345D22 H E R V | G W N | L | Q G | L | R E Q | L | L | P Y T A E | L | M E Q V A L | G V Q E L Q
UniRef90_UP10003345D22 H E R V | G W N | L | Q G | L | R E Q | L | L | P Y T A E | L | M E Q V A L | G V Q E L Q
UniRef90_L5KJS9 T N | P | K D S F E | Q D F K N | M D R F | L | E K L | G S | L | S E Q | G R E | P | L | Q D | Q V G M R
UniRef90_L5KJS9 T N | P | K D S F E | Q D F K N | M D R F | L | E K L | G S | L | S E Q | G R E | P | L | Q D | Q V G M R
UniRef90_UP10000EDCBAF P Y S D E | L | Q T K | L | N Q K | L | K N | L | S D N G | L | P K | K A S E | Y Q A R | L | V E | H | T | A L R
UniRef90_UP10000EDCBAF P Y S D E | L | Q T K | L | N Q K | L | K N | L | S D N G | L | P K | K A S E | Y Q A R | L | V E | H | T | A L R
UniRef90_UP10000EDCBAF P Y S D E | L | Q T K | L | N Q K | L | K N | L | S D N G | L | P K | K A S E | Y Q A R | L | V E | H | T | A L R
UniRef90_B5TFN3 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_B5TFN3 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_B5TFN3 K H I | S E Y R T L | M D P | I L T E Y Y A K | H T A D M E A L | K L | K M E P | V E E E L R
UniRef90_S7MF16 L | K V | L | A | K | L | D | T | L | S N K V A D | L | T | K | Q | T | Q | D | F | W | A | K | L | K | N | E | V | G | M | L | T
UniRef90_1ISRX8 K H V | E E Y R S M | L | E P | I | L | S E Y Q A K | H D Q | E V A A L | L | R | V | K | L | D | P | V | M | V | E | L | R
UniRef90_H3DA29 K H V | E E Y R S M | L | E P | I | L | S E Y Q A K | H D Q | E V A A L | L | R | V | K | L | D | P | V | M | V | E | L | R
UniRef90_H3DA29 K H V | E E Y R S M | L | E P | I | L | S E Y Q A K | H D Q | E V A A L | L | R | V | K | L | D | P | V | M | V | E | L | R
UniRef90_M3ZNP4 G | I | Y | K | S | V | I | D | S | S | G | L | Y | T | L | E | S | D | D | L | K | H | P | L | A | E | E | M | Q | R | K | L | T | L | E | S | E | R | L | R
UniRef90_H2DJB6 UniRef90_H2DJB6 H E L | V | G | W | N | L | E | G | L | R | Q | Q | L | K | P | Y | T | M | D | L | M | E | Q | V | A | L | R | V | Q | E | L | Q
UniRef90_G3WCV9 UniRef90_G3WCV9 L | E | C | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | E | L | G
UniRef90_G3WCV9 L | E | C | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | E | L | G
UniRef90_G3WCV9 L | E | C | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | E | L | G
UniRef90_G3WCV9 L | E | C | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | A | L | G | G | G | C | L | E | C | E | A | S | E | L | G
UniRef90_M7AR07 Q | W | R | L | A | R | K | I | E | N | F | F | D | D | L | E | R | K | V | P | P | K | A | Q | E | Q | L | R | N | L | S | R | H | V | D | A | L | V
UniRef90_F1ACD1 S | Q | E | N | V | Q | S | N | F | E | T | L | F | Q | T | I | T | P | F | C | N | Q | F | L | E | T | T | N | P | Q | R
UniRef90_UP1000273DA60 D | S | L | E | Q | D | L | N | N | M | N | K | F | L | E | K | L | R | P | L | S | G | S | E | A | P | R | L | P | Q | D | P | V | G | M | R
UniRef90_UP1000273DA60 D | S | L | E | Q | D | L | N | N | M | N | K | F | L | E | K | L | R | P | L | S | G | S | E | A | P | R | L | P | Q | D | P | V | G | M | R
UniRef90_W6W4C6 S | R | S | R | E | L | S | D | A | L | S | A | R | S | S | E | I | Q | D | T | L | A | S | R | A | T | E | I | Q | D | A | L | V | T | R | T | G | E | L | Q

	90	100	110	120
UniRef90_G3NRQ2	T K L S E R L E Q L K T M V G P Y V E E Y K D Q M R S A Y Q Q A Q G V K A E D L			
UniRef90_G3NRQ2	T K L S E R L E Q L K T M V G P Y V E E Y K D Q M R S A Y Q Q A Q G V K A E D L			
UniRef90_G3NRQ2	T K L S E R L E Q L K T M V G P Y V E E Y K D Q M R S A Y Q Q A Q G V K A E D L			
UniRef90_C8CPA4	E V I X K H L D E Y R V Q M E P I V R E Y Y A K H T A D M E A L R T K L E P V V			
UniRef90_C8CPA4	E V I X K H L D E Y R V Q M E P I V R E Y Y A K H T A D M E A L R T K L E P V V			
UniRef90_UP10003314C81	Q Q L Q E E L E E V R T R L E P Y M A E A H E R V G W H L E G L R Q Q L P Y T			
UniRef90_D1MFA6	S K L M P V E A L R E K A A E I Q E T K T Q L E P Y I Q E Y K D Q M E K G A			
UniRef90_D1MFA6	S K L M P V E A L R E K A A E I Q E T K T Q L E P Y I Q E Y K D Q M E K G A			
UniRef90_D1MFA6	S K L M P V E A L R E K A A E I Q E T K T Q L E P Y I Q E Y K D Q M E K G A			
UniRef90_I1SRT7	Q K M A T N V E E T K A A L M P V E S A R A K L V E R V V E Q L K Q L A S P Y L			
UniRef90_I1SRT7	Q K M A T N V E E T K A A L M P V E S A R A K L V E R V V E Q L K Q L A S P Y L			
UniRef90_I1SRT7	Q K M A T N V E E T K A A L M P V E S A R A K L V E R V V E Q L K Q L A S P Y L			
UniRef90_C3KJ42	N K V M T N V E E T K D A L M P V E A V R T K L S E R L N Q L K V M V S P Y V			
UniRef90_C3KJ42	N K V M T N V E E T K D A L M P V E A V R T K L S E R L N Q L K V M V S P Y V			
UniRef90_B7NZL9	E Q L R M V G E D A K A Q L L S L Q E L Q G R V R H H T S R V K E L F H P Y A			
UniRef90_B7NZL9	E Q L R M V G E D A K A Q L L S L Q E L Q G R V R H H T S R V K E L F H P Y A			
UniRef90_UP100033D05D	E Q L R V L G E G T K A Q L L G G M D E M P S R V L H H T G R V K E L F H P Y A			
UniRef90_UP100033D05D	E Q L R V L G E G T K A Q L L G G M D E M P S R V L H H T G R V K E L F H P Y A			
UniRef90_Q5DVG8	T A L M P L E S V R A K L S E R L K E M A T P Y V E E Y K D Q Q A Y G G			
UniRef90_Q5DVG8	T A L M P L E S V R A K L S E R L K E M A T P Y V E E Y K D Q Q A Y G G			
UniRef90_Q5DVG8	T A L M P L E S V R A K L S E R L K E M A T P Y V E E Y K D Q Q A Y G G			
UniRef90_Q5KSU3	T R M E K D L S T I R E K M Q Q S L E F Q S Q L N Q K S Q E Q Q S A P Y G			
UniRef90_V9LJR9	E Q I R Q Q V E Q L S A Q V V S P I S E E E V Q Q Q I S Q Q K I E V L K R T P Y T			
UniRef90_V9LJR9	E Q I R Q Q V E Q L S A Q V V S P I S E E E V Q Q Q I S Q Q K I E V L K R T P Y T			
UniRef90_V9LJR9	E Q I R Q Q V E Q L S A Q V V S P I S E E E V Q Q Q I S Q Q K I E V L K R T P Y T			
UniRef90_V9LJR9	E Q I R Q Q V E Q L S A Q V V S P I S E E E V Q Q Q I S Q Q K I E V L K R T P Y T			
UniRef90_Q6Y255	E S L S A D I Q A L K T S L E P Q R E K L R E V I E R H N D Y R T M T P Y			
UniRef90_F8K8M3	A V L E K N M E D Y R Q K M P L I Q E Y V L K Q R E E M D A L R A K T E P I L			
UniRef90_F8K8M3	A V L E K N M E D Y R Q K M P L I Q E Y V L K Q R E E M D A L R A K T E P I L			
UniRef90_F8K8M3	A V L E K N M E D Y R Q K M P L I Q E Y V L K Q R E E M D A L R A K T E P I L			
UniRef90_B6DUG7	Q V L E E K H F E G Y R D E L K P F V E E Y L V Q R E H M E E V R T K L E P V V			
UniRef90_V8NF06	G K L R N D M E E T K N K L Q Y S Q D T R L M I D H N V E N V K S Q F N L L M			
UniRef90_O42175	T K H D E E M A A L K T R L E P V M E E L R T K I Q A N V E E T K A V L M P M V			
UniRef90_O42175	T K H D E E M A A L K T R L E P V M E E L R T K I Q A N V E E T K A V L M P M V			
UniRef90_B5TFN2	A K H T A D M E A L K K M E P I V E E L R T K I S T N V E E T K T A L M P I V			
UniRef90_B5TFN2	A K H T A D M E A L K K M E P I V E E L R T K I S T N V E E T K T A L M P I V			
UniRef90_L5M2H9	G E L N K D L A E V M K P Y L E G I Q K K W Q E R V E E L G Q A L Q E E L			
UniRef90_UP100038E9E03	Q Q L Q E E L E Q V K A R L Q P Y M A E V H K L V G S N L E G L R Q Q L K P Y T			
UniRef90_UP100038E9E03	Q Q L Q E E L E Q V K A R L Q P Y M A E V H K L V G S N L E G L R Q Q L K P Y T			
UniRef90_W4EPX7	A T V E T K V E E A Q A I A E T E V E E V Q A T V E T E V E E V Q A T V E T K V			
UniRef90_W4EPX7	A T V E T K V E E A Q A I A E T E V E E V Q A T V E T E V E E V Q A T V E T K V			
UniRef90_W4EPX7	A T V E T K V E E A Q A I A E T E V E E V Q A T V E T E V E E V Q A T V E T K V			
UniRef90_E1NZA4	T A L M P L E S V Y A K L S E R L Q N L K E L A T P Y V E E Y K T H L T Q A Y			
UniRef90_E1NZA4	T A L M P L E S V Y A K L S E R L Q N L K E L A T P Y V E E Y K T H L T Q A Y			
UniRef90_D9ZB55	A R L G A D M E D V C G R L V Q Y R G E V Q A M L G Q S T E E L R V R L A S H L			
UniRef90_UP10003EC4EB8	S R T S E N V E D L K T R L D P Y F Q A Q V R D N A Q T K I T T L K D L L T S Q M			
UniRef90_UP10003EC4EB8	S R T S E N V E D L K T R L D P Y F Q A Q V R D N A Q T K I T T L K D L L T S Q M			
UniRef90_H2U002	A R M D S D A Q N L K T K L T P Y T Q D A A D R L G R N A D D V R A R V S T Y T			
UniRef90_H2U002	A R M D S D A Q N L K T K L T P Y T Q D A A D R L G R N A D D V R A R V S T Y T			
UniRef90_C1BKM7	A K V S S M A E D T K A V L V P M V E S V R A K L N E R I D E L K M K A A P E T			
UniRef90_C1BKM7	A K V S S M A E D T K A V L V P M V E S V R A K L N E R I D E L K M K A A P E T			
UniRef90_B5TFN1	T K I S T N V E E T K T A L M P I V E S V R D K L Q E R I L E S L K A M A S P Y P			
UniRef90_B5TFN1	T K I S T N V E E T K T A L M P I V E S V R D K L Q E R I L E S L K A M A S P Y P			
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UniRef90_I1SRX8	V R L R Q E L A E L R E R L S P S P A H S A T L A S I R E R L T P L T			
UniRef90_H3DA29	K K M E T N V E E T K T A A L S P I V E A V R R K I A E R V E A V K L T T P W V			
UniRef90_H3DA29	K K M E T N V E E T K T A A L S P I V E A V R R K I A E R V E A V K L T T P W V			
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UniRef90_G3WCV9	G P L L E R E A S E L R G R L E R E A S E L R G R L E R E A S E L L R G C C L E R E A			
UniRef90_G3WCV9	G P L L E R E A S E L R G R L E R E A S E L R G R L E R E A S E L L R G C C L E R E A			
UniRef90_G3WCV9	E V S V A E L R E R L E R K V Q P Y K K Q L H A V L V S Y T E E Q E K L G S Y V			
UniRef90_F1ACD1	E K V K D I E D I R Y Q L E P L R D E L C Q V L Q K H F E E Y R E K L K P F V			
UniRef90_UP1000273DA60	Q Q L Q E E L E E V V K A R L Q P Y M A E A H E L V G W N L E G L R R Q L K P Y T			
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130 140

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UniRef90_C3KJ42	T E Y K D Q L K Q D L A A L K E K I T P L A
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UniRef90_Q5DVG8	Q A L K E K I S P M A E E E V V K A K V T
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UniRef90_V9LJR9	E D L Q R T L Q Q N A D N L Q Q A L V P F A Q
UniRef90_Q6Y255	N D Y K T K H D E E M T A L K A R L E P V M
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UniRef90_W4EPX7	E E A Q T V V E T I V E E E V V Q K
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UniRef90_B5TFN1	E E Y K
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UniRef90_G3WCV9	S E L R G H L E R E A S E L R G H L
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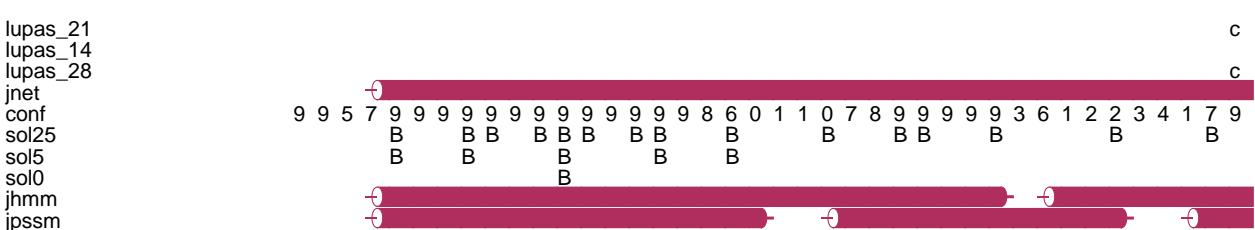
1 10 20 30 40

A D **V** F R S F **V** D Q A R R T A E E T **E** K **I** Q T S Q **V** G Q E
S S F R E K L R K F L T E S R D S L P K L I S S F R E K L R

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

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

Q **L** A K H **I** Q



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lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
ipssm

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UniRef90_Q0GN72	K R L N K D T Q E I H D T V A T Y M G E L Q S R T S Q N L E A A A R E Q V E P Y V
UniRef90_UPI0003B752B2	Q E L A S Q T Q A L G Q K L D S Q T Q A L G E K L T T Q T Q G L E Q Q L A S Q K
UniRef90_UPI0003B752B2	Q E L A S Q T Q A L G Q K L D S Q T Q A L G E K L T T Q T Q G L E Q Q L A S Q K
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UniRef90_V9LJH4	E Y L G L E L E S L F L H V H P Y M M E L N N E V N Q L I Q R L H S Q I
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conf	C C C C
sol25	C C C C
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UniRef90_W6W4C6	S	E	F	Q	D	V	I	A	T	R	T	G	E	L
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UniRef90_UPI000387C902	Q	N	F	H	A	S	M	N	L	N	L	Q	N	I
UniRef90_E9QJG3	S	S	F	R	E	K	L	R	K	F	L	T	E	S
UniRef90_B1VKJ7	Q	Q	A	S	D	S	A	T	K	K	I	S	D	I
UniRef90_Q0GN72	Q	Q	A	S	D	S	A	T	K	K	I	S	D	I
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UniRef90_A9TE41	E	S	G	R	E	R	A	A	H	A	G	Q	S	R
UniRef90_F3YUX8	Q	Q	V	E	E	K	A	S	E	L	V	Q	D	I
UniRef90_F9N3S2	Q	Q	V	E	E	K	A	S	E	L	V	Q	D	I