

QUERY	1	10	20	30	40																																										
UniRef90_UPI0002628BA6	V	E	S	F	E	L	D	H	N	A	V	V	A	P	Y	V	R	H	C	G	V	H	K	V	G	T	D	G	V	V	N	K	F	D	I	R	F	F	C	C	Q	P					
UniRef90_M3D018	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	E	K	T	G	T	H	K	G	D	D	T	I	V	R	K	Y	D	I	R	F	F	K	Q	Q	P
UniRef90_K6D475	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	T	T	E	G	V	N	G	D	D	K	V	I	R	K	Y	D	I	R	F	F	K	Q	Q	P	
UniRef90_G9ZHP7	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	D	K	K	Q	G	E	H	G	D	D	V	I	F	K	Y	D	I	R	I	S	Q	Q	P			
UniRef90_UPI0004726241	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	V	K	S	G	D	H	G	D	D	K	I	F	K	Y	D	I	R	I	S	Q	Q	P			
UniRef90_C5NXX2	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	V	Y	T	T	E	G	D	N	G	D	K	V	I	F	K	Y	D	I	R	F	F	C	C	Q	P
UniRef90_N4WJE6	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	V	T	T	E	G	D	N	G	D	K	V	I	F	K	Y	D	I	R	F	F	C	C	Q	P	
UniRef90_I8AHR9	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	T	Q	K	E	G	K	E	M	G	D	T	M	I	H	K	Y	D	I	R	F	F	C	C	Q	P
UniRef90_A7GBC6	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	T	Q	K	E	G	K	E	M	G	D	T	M	I	H	K	Y	D	I	R	F	F	C	C	Q	P
UniRef90_UPI0002F41FC9	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	I	T	E	G	K	N	G	D	K	I	H	K	Y	D	I	R	F	F	K	Q	Q	P			
UniRef90_UPI0003644C6D	V	E	S	F	F	T	H	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	D	V	K	T	G	K	N	G	D	K	I	H	K	Y	D	I	R	F	F	C	C	Q	P		
UniRef90_W8T7W0	V	E	S	F	F	T	M	D	H	T	V	V	K	A	P	Y	V	R	K	C	G	V	I	T	T	P	B	P	K	G	D	T	I	T	K	F	D	I	R	F	F	C	C	Q	P		
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UniRef90_Q5WDDW1	V	E	S	F	F	E	L	D	H	T	V	V	K	A	P	Y	V	R	H	C	G	K	H	K	I	G	S	D	G	E	V	N	K	F	D	I	R	F	F	C	C	Q	P				
UniRef90_U1ESD7	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	K	M	E	G	Q	S	G	D	V	I	H	K	Y	D	I	R	F	F	K	Q	Q	P			
UniRef90_A6CK15	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	I	T	E	G	K	N	G	D	K	V	I	F	K	Y	D	I	R	F	F	L	K	Q	P		
UniRef90_K0IZQ3	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	V	T	T	G	K	H	G	D	Q	V	I	F	K	Y	D	I	R	F	F	C	C	Q	P		
UniRef90_U5SAZ8	V	E	S	F	F	E	L	D	H	N	L	V	V	A	P	Y	V	R	V	A	G	V	E	K	N	D	K	S	T	V	Q	K	F	D	I	R	F	F	L	L	Q	Q	P				
UniRef90_UPI0003B52C67	V	E	S	F	F	E	L	D	H	T	K	V	V	A	P	Y	V	R	V	A	G	V	Q	K	V	G	S	D	G	L	V	T	K	F	D	I	R	F	F	L	L	Q	Q	P			
UniRef90_A0A011RNT6	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	V	A	D	R	K	T	G	E	N	G	D	L	V	I	F	K	Y	D	I	R	F	F	S	Q	Q	P			
UniRef90_W4EQG8	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	L	K	K	G	V	N	G	D	E	V	I	F	K	Y	D	I	R	F	F	K	Q	Q	P		
UniRef90_W7D110	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	Q	K	G	T	H	G	D	E	V	I	F	K	Y	D	I	R	F	F	M	Q	Q	P			
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UniRef90_Q8CUK0	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	V	T	E	G	A	N	G	D	T	K	V	I	H	K	Y	D	I	R	F	F	L	K	Q	P	
UniRef90_D6XTF8	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	K	T	T	G	A	N	G	D	T	I	F	K	Y	D	I	R	F	F	L	K	Q	P			
UniRef90_V6J0R2	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	V	G	V	T	K	A	P	H	G	D	E	I	F	K	Y	D	I	R	F	F	C	C	Q	P			
UniRef90_W9ALV0	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	T	T	T	G	A	N	G	D	T	V	I	F	K	Y	D	I	R	F	F	L	L	Q	Q	P	
UniRef90_W7QDE4	V	E	S	F	F	N	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	D	I	K	T	G	L	N	G	D	T	I	H	K	Y	D	I	R	F	F	L	L	C	Q	P		
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UniRef90_F4FXK4	V	E	S	F	F	T	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	I	T	T	E	T	G	P	K	G	D	V	V	S	N	F	D	I	R	F	F	L	L	Q	Q	P		
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UniRef90_I7KHK2	V	E	S	F	Q	L	D	D	H	T	K	V	V	A	P	Y	V	R	L	L	I	G	A	E	T	G	P	K	G	D	V	I	T	N	F	D	I	R	F	F	L	V	Q	P			
UniRef90_D8MW00	L	D	S	F	T	V	D	H	T	I	M	A	A	P	A	V	R	V	A	K	T	M	N	T	P	H	G	D	T	I	T	V	F	D	I	R	F	F	C	C	Q	P					
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UniRef90_D7CY71	V	A	S	F	F	D	L	D	H	T	K	V	V	A	P	Y	V	R	L	L	A	G	R	Y	R	G	P	R	G	D	T	V	T	K	F	D	I	R	F	F	L	V	Q	P			
UniRef90_V7I6G5	V	E	S	F	Q	L	D	D	H	T	K	V	V	A	P	Y	V	R	K	C	G	L	F	L	G	K	G	D	T	V	S	K	F	D	I	R	F	F	L	L	Q	Q	P				
UniRef90_B2TQP8	V	E	S	F	F	E	L	D	H	T	K	V	V	A	P	Y	V	R	K	C	G	S	E	K	G	N	G	D	L	V	S	K	F	D	I	R	F	F	L	L	Q	Q	P				
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UniRef90_U1RNV3	V	E	S	F	F	N	L	D	H	T	F																																				

QUERY UniRef90\_UPI0002628BA6 UniRef90\_M3D018 UniRef90\_K6D475 UniRef90\_G9ZHP7 UniRef90\_UPI0004726241 UniRef90\_C5NXX2 UniRef90\_N4WJE6 UniRef90\_I8AHR9 UniRef90\_A7GBC6 UniRef90\_UPI0002F41FC9 UniRef90\_UPI0003644C6D UniRef90\_W8T7W0 UniRef90\_UPI00046A991B UniRef90\_UPI0003B5DCFA UniRef90\_UPI00029AB39E UniRef90\_Q5WDW1 UniRef90\_U1ESD7 UniRef90\_A6CK15 UniRef90\_K0IZQ3 UniRef90\_U5SAZ8 UniRef90\_UPI0003B52C67 UniRef90\_A0A011RNT6 UniRef90\_W4EQG8 UniRef90\_W7D110 UniRef90\_UPI00030A350B UniRef90\_Q8CUK0 UniRef90\_D6XTF8 UniRef90\_V6J0R2 UniRef90\_W9ALV0 UniRef90\_W7QDE4 UniRef90\_A0A037Z4H8 UniRef90\_F4FXK4 UniRef90\_UPI00037AD7AD UniRef90\_UPI0003B3CEAB UniRef90\_F2I8C5 UniRef90\_D9SL03 UniRef90\_UPI00047B55A1 UniRef90\_UPI00041D72DE UniRef90\_I7KHK2 UniRef90\_D8MW00 UniRef90\_A8MGS8 UniRef90\_UPI0003B6437A UniRef90\_D7CY71 UniRef90\_V7I6G5 UniRef90\_B2TQP8 UniRef90\_I1XRY8 UniRef90\_E6X176 UniRef90\_W6S005 UniRef90\_E1STH1 UniRef90\_U1RNV3 UniRef90\_E7G0T2 UniRef90\_Q9K7K8 UniRef90\_Q30P69 UniRef90\_U3TXQ3 UniRef90\_B4EUW0 UniRef90\_UPI00046F9799 UniRef90\_U5MTX2 UniRef90\_G5JY20 UniRef90\_A5F9A3 UniRef90\_B8CKC3 UniRef90\_UPI00035F304D UniRef90\_X2HF86 UniRef90\_B6G241 UniRef90\_F2F2A9 UniRef90\_K4IMZ0 UniRef90\_Q181K1 UniRef90\_R8AMX8 UniRef90\_E3C139 UniRef90\_D4QLX4 UniRef90\_D7GDL7 UniRef90\_Q03B21 UniRef90\_UPI000479C218 UniRef90\_E1VUH9 UniRef90\_M7NIP8 UniRef90\_A7ZGE2 UniRef90\_J1R307 UniRef90\_UPI000313FD2B UniRef90\_K9F1P8 UniRef90\_A7H2H9 UniRef90\_W0ZC43 UniRef90\_F9DT07 UniRef90\_UPI00046A75BF UniRef90\_C3XK76 UniRef90\_F2NKV7 UniRef90\_UPI0004009A09 UniRef90\_G9WH82 UniRef90\_F6DB50 UniRef90\_S0RBY2 UniRef90\_J0N531 UniRef90\_W1Q6C6 UniRef90\_F4HBP5

50 60 70 80

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UniRef90\_F2I8C5 N E Q A I S T A A A L H T I E H H M S A Y I R D Y I D G G I I D I I S P M G  
UniRef90\_D9SL03 N E S A L P T G A I H T L E H H L L A G Y M R E K M D G V I I D I I S P M G  
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UniRef90\_I7KHK2 N E Q E I P T A G L H T I E H H L M A S L I R D R I D G D G V E I I D I I S P M G  
UniRef90\_D8MW00 N K E V M P E R G I H T L E H H L F A G F M R N H L N G D G V E I I D I I S P M G  
UniRef90\_A8MGS8 N G D S T M P T G A V H A L E H H L L A G Y I R R E E L N N V I D I I S P M G  
UniRef90\_UPI0003B6437A N E N S I P S S G L H T I E H H L L A S L I R D R M D G M I I D I I C S P F G  
UniRef90\_D7CY71 N R A E L P T A A L H T L E H H L L A G Y L R G A L E G L E G V Q L V D A S P M G  
UniRef90\_V7I6G5 N Q G V M E T S G L H T M E H H L L A G Y M R E K L E E I I D I I S P M G  
UniRef90\_B2TQP8 N K E M P T G A M H T L E H H L L A G Y M R E K L D G I I I D I I S P M G  
UniRef90\_I1XRY8 N K E N L P K G I H T L E H H L F A G F M R D H L N G K D V E I I D I I S P M G  
UniRef90\_E6X176 N E E M M S E K G I H T L E H H L F A G F M R E H L N R E G V E I I D I I S P M G  
UniRef90\_W6S005 N K E L M D M R A V H T M E H H L L A E N M R D K M E D S V E I I D I I S P M G  
UniRef90\_E1STH1 N A E L L S E K G I H T L E H H L F A G F M R D H L N G D S V E I I D I I S P M G  
UniRef90\_U1RNV3 N R E H L E M P A V H S L E H H S F A E Y A R N H S A N V V I D I I S P M G  
UniRef90\_E7G0T2 N K E H M D M P S L H S L E H H L V A E L I R N H A N Y I I V D I I S P M G  
UniRef90\_Q9K7K8 N K Q A M K P D V I H T L E H H L L A L N I R K F A E A Y D H F D V I D I I S P M G  
UniRef90\_Q30P69 N K E I L S S E G I H T L E H H L F A G F M R D H L N G S K D V E I I D I I S P M G  
UniRef90\_U3TXQ3 N I D L L T E R G I H T L E H H L F A G F M R N H L N G D G V E I I V I D I I S P M G  
UniRef90\_B4EUW0 N K K A M P E K G L H T L E H H L F A G F M R N H L N G S E G V E I I D I I S P M G  
UniRef90\_UPI00046F9799 N K D I M S E K G T H T L E H H L F A G F M R D H L N G S E G V E I I D I I S P M G  
UniRef90\_U5MTX2 N V E A F G T A A M H G L E H H L L A H E L R N H L E G S V I D I I S P M G  
UniRef90\_G5JY20 N A D A I P T A G L H T I E H H L L A K L I R E R L D G G M I I D I I C S P F G  
UniRef90\_A5F9A3 N K D I L S E R G I H T L E H H L Y A G F M R N H L N G S Q V E I I D I I S P M G  
UniRef90\_B8CKC3 N K Q I L S E R G I H T L E H H L F A G F M R D H L N G S D N V E I I D I I S P M G  
UniRef90\_UPI00035F304D N H N A I D T A G L H T I E H H L L A M L I R K R M D G M I I D I I C S P F G  
UniRef90\_X2HF86 N Q T I L P E K G M H T I E H H L F A G F M R D H L N S D Q V E I I D I I S P M G  
UniRef90\_B6G241 N V E A F G T A A L H G L E H H L L A T Y L R E T M D D I I D I I S P M G  
UniRef90\_F2F2A9 N K A H M E M P S L H S L E H H L M A D R I R N H S E D V V I D I I S P M G  
UniRef90\_K4IMZ0 N Q N A I P T A G L H T I E H H T I A V L L R E R I D G G Y I I D I I C S P F G  
UniRef90\_Q181K1 N V E S F G T A A M H G L E H H L L A T Y L R D T L D G G V I I D I I S P M G  
UniRef90\_R8AMX8 N Q E I L S E K G I H T L E H H L F A G F M R D H L N G N G V E I I D I I S P M G  
UniRef90\_E3C139 N Q N A I P T A G I H T I E H H S L A S L I R D R I V G G M I I D I I S P F G  
UniRef90\_D4QLX4 N K S S I E T A G L H T F E H H L L A D L L R D R V E G V I I D I I C S P F G  
UniRef90\_D7GDL7 N V N H L D M K A V H S V E H H S F A E C V R N H S D S S V I D I I F S P M G  
UniRef90\_Q03B21 N T A A I D T A G L H T I E H H L L A S L L R D R M D G V I I D I I C S P F G  
UniRef90\_UPI000479C218 N M D A I P T G G L H T L E H H L F A V Y F R D Y M E G G I I D I I S P M G  
UniRef90\_E1VUH9 N H G E I P T A G L H T I E H H T M A G L L R T R M E G G L I D I I S P F G  
UniRef90\_M7NIP8 N V A H L E M D V I H S L E H H L F A E S S R N H S D S V I I D I I S P M G  
UniRef90\_A7ZGE2 N E E I L P E K G T H T L E H H L F A G F M R N H L N G N G V E I I D I I S P M G  
UniRef90\_J1R307 N T D A I P T A A L H T L E H H L L A F G L R E E L D R S N V E I I D I I S P M G  
UniRef90\_UPI000313FD2B N Q D I L S E K G I H T L E H H L F A G F M R A H L N G S N V E I I D I I S P M G  
UniRef90\_K9F1P8 N L E H L E M P A V H S I E H H S F A E Y S R N H S D S N V V I D I I S P M G  
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UniRef90\_W0ZC43 N A G E I P T A G L H T L E H H M L A G L L R D R I D G G V I I D I I S P F G  
UniRef90\_F9DT07 N E D A M P T A A V H T L E H H L L A T Y L R D E L E G G V I I D I I S P M G  
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UniRef90\_F2NKV7 N R A V V P T D A L H T L E H H L L A G Y L R D H L E G L V I D I I S P M G  
UniRef90\_UPI0004009A09 N K E H L T M P A I H S I E H H C F A E F S R N H N E H V I D I I S P M G  
UniRef90\_G9WH82 N E T A I E T A G I H T L E H H L F A D L M R R L D G G I I I D I I S P F G  
UniRef90\_F6DB50 N K E I L E R G I H T L E H H L F A G F I R R Q H L N G D G V E I I D I I S P M G  
UniRef90\_S0RBY2 N Q A Y M D M A A L H S L E H H L T A E L I R N H A D Y I I V D I I S P M G  
UniRef90\_J0N531 N T D S A I P T G A L H T L E H H Y L A I I F L R E E L E E G L I I D I I S P M G  
UniRef90\_W1Q6C6 N Q D A I P T G A L H T L E H H Y L A I I N L R D E L E E G V I I D I I S P M G  
UniRef90\_F4HBP5 N Q D N I S P K G I H T L E H H L F A G F M R D H L N S D S V E I I D I I S P M G

QUERY	90	100	110	120																																															
UniRef90_UPI0002628BA6	Q	T	G	F	Y	L	V	V	S	G	E	T	T	S	A	E	V	D	L	L	E	D	T	M	K	E	A	V	E	I	T	E	V	P	A	A	N	P													
UniRef90_M3D018	Q	T	G	F	Y	L	S	V	I	N	L	D	D	N	Y	E	L	R	I	D	L	L	E	K	T	L	K	D	V	L	E	A	N	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_K6D475	Q	T	G	F	Y	L	Q	V	I	N	L	H	S	E	Y	E	L	D	V	L	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_G9ZHP7	Q	T	G	F	Y	W	S	L	I	N	H	E	D	S	Y	Q	A	L	D	L	I	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_UPI0004726241	Q	T	G	F	Y	L	S	V	I	N	H	E	D	S	Y	E	E	V	E	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_C5NXX2	Q	T	G	F	Y	L	S	V	I	N	H	E	D	S	Y	E	E	V	E	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_N4WJE6	Q	T	G	F	Y	L	A	I	F	N	N	D	R	Y	E	E	V	T	A	L	E	K	T	F	Q	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E								
UniRef90_I8AHR9	Q	T	G	F	Y	L	S	V	I	N	H	E	D	S	Y	E	E	V	E	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_A7GBC6	Q	T	G	F	Y	L	A	V	L	N	H	D	D	Y	D	E	L	N	A	L	E	K	T	F	Q	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E								
UniRef90_UPI0002F41FC9	Q	T	G	F	Y	L	A	V	L	N	H	D	D	Y	D	E	L	N	A	L	E	K	T	F	Q	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E								
UniRef90_UPI0003644C6D	Q	T	G	F	Y	L	S	L	I	N	D	G	S	E	E	F	L	R	V	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_W8T7W0	Q	T	G	F	Y	L	I	M	V	G	E	L	S	E	E	E	V	A	K	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_UPI00046A991B	R	T	G	F	H	L	L	V	W	G	T	P	S	T	E	E	V	A	K	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_UPI0003B5DCFA	Q	T	G	F	Y	L	L	I	L	Q	G	E	S	Y	E	E	V	L	D	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_UPI00029AB39E	Q	T	G	F	H	L	I	V	W	G	E	H	D	T	Q	T	V	A	K	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_Q5WDW1	Q	T	G	F	Y	L	I	M	S	G	T	P	S	V	E	E	I	D	V	L	E	K	T	M	T	Y	S	L	S	I	E	T	V	P	A	A	T	E	N	E	N	E	N	E							
UniRef90_U1ESD7	Q	T	G	F	Y	A	S	F	I	N	H	D	S	Y	E	E	V	L	N	I	V	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_A6CK15	Q	T	G	F	Y	I	T	T	L	N	D	E	S	F	Y	E	T	V	L	D	V	I	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E					
UniRef90_K0IZQ3	Q	T	G	F	Y	L	T	V	L	N	D	E	S	F	D	I	D	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E								
UniRef90_U5SAZ8	Q	T	G	F	Y	L	I	K	W	E	D	S	P	E	V	V	A	E	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_UPI0003B52C67	Q	T	G	F	Y	L	I	M	N	G	E	A	V	S	E	E	I	D	I	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_A0A011RNT6	Q	T	G	F	Y	L	T	V	I	N	H	D	N	Y	E	E	I	D	V	L	E	K	T	M	E	D	I	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E								
UniRef90_W4EQG8	Q	T	G	F	Y	L	S	M	I	N	H	T	N	D	Y	D	E	V	L	D	I	L	E	K	T	F	N	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_W7D110	Q	T	G	F	Y	L	S	L	I	N	H	T	N	D	Y	D	D	V	L	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_UPI00030A350B	Q	T	G	F	Y	L	S	L	I	N	D	H	Q	Y	D	E	V	I	D	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_Q8CUK0	Q	T	G	F	Y	L	S	L	I	N	H	D	S	Y	E	E	V	L	T	M	I	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_D6XTF8	Q	T	G	F	Y	M	A	V	L	N	D	D	S	Y	E	N	I	L	Q	V	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_V6J0R2	Q	T	G	F	Y	V	S	I	I	D	N	S	S	Y	D	A	I	L	Q	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_W9ALV0	Q	T	G	F	Y	L	S	V	I	N	H	D	N	Y	D	D	V	L	E	A	V	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_W7QDE4	Q	T	G	F	Y	V	A	L	N	H	D	D	Y	D	D	V	L	L	E	Q	K	T	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E				
UniRef90_A0A037Z4H8	R	T	G	F	Y	L	T	V	W	G	D	R	D	T	K	Y	I	K	D	G	L	E	S	L	K	K	V	L	D	A	K	E	V	P	A	A	N	D	K	E	V	P	A	A	N	D	K	E			
UniRef90_F4FXK4	Q	T	G	F	H	L	I	T	W	G	E	H	S	T	E	V	I	E	D	I	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_UPI00037AD7AD	Q	T	G	F	H	L	I	M	N	G	E	H	S	T	K	D	V	A	I	A	L	E	K	T	M	E	Y	A	L	D	Y	E	V	P	A	A	T	E	N	E	N	E	N	E							
UniRef90_UPI0003B3CEAB	R	T	G	F	H	L	L	W	N	E	H	D	T	K	D	V	A	I	A	L	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_F2I8C5	R	T	G	F	Y	L	I	M	W	G	Q	A	E	P	E	V	A	V	A	Y	T	K	V	L	R	D	I	I	D	W	S	D	V	Q	G	T	E	A	A	N	D	K	E	V	P	A	A	N	D	K	E
UniRef90_D9SL03	R	T	G	F	Y	M	V	A	W	G	D	I	Q	A	E	T	V	I	D	A	L	T	Y	G	L	K	V	L	D	T	E	V	I	P	A	T	T	E	N	E	N	E	N	E							
UniRef90_UPI00047B55A1	Q	T	G	F	Y	L	V	V	N	G	E	P	T	V	D	E	I	D	L	I	E	D	T	M	K	I	S	L	E	A	T	E	V	P	A	A	T	E	N	E	N	E	N	E							
UniRef90_UPI00041D72DE	Q	T	G	F	Y	L	S	L	I	F	N	D	D	Y	E	E	V	L	D	L	V	E	K	T	L	L	R	D	V	L	E	A	T	E	V	P	A	C	C	C	N	N	E	N	E						
UniRef90_I7KHK2	R	T	G	F	H	M	I	M	W	G	E	H	S	S	E	E	I	A	K	V	I	K	S	L	E	N	V	I	E	A	D	S	D	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_D8MW00	R	T	G	F	Y	M	S	L	I	G	T	P	D	E	Q	R	V	A	K	A	W	K	G	A	M	Q	D	V	L	K	V	T	D	I	P	E	L	N	E	N	E	N	E								
UniRef90_A8MGS8	R	T	G	F	Y	L	I	T	A	C	E	I	T	E	V	T	K	A	L	I	N	A	S	K	V	I	E	S	D	Q	V	P	A	A	T	E	N	E	N	E	N	E	N	E							
UniRef90_UPI0003B6437A	A	T	G	F	H	M	I	T	W	G	T	P	S	V	E	E	D	I	R	V	T	D	S	L	R	A	I	A	E	S	W	E	D	V	P	A	C	C	C	N	N	E	N	E							
UniRef90_D7CY71	R	T	G	F	Y	L	T	V	L	G	Q	P	A	E	A	D	I	A	Q	A	L	T	R	A	L	H	A	V	A	H	Q	G	E	I	P	A	A	T	E	N	E	N	E	N	E						
UniRef90_V7I6G5	R	T	G	F	Y	M	V	A	W	G	D	P	T	E	D	A	V	T	D	A	L	E	Y	A	L	K	M	V	I	G	E	T	E	E	I	P	A	A	T	E	N	E	N	E	N	E					
UniRef90_B2TQP8	R	T	G	F	Y	M	V	A	W	G	T	P	E	V	E	K	V	I	E	A	L	N	Y	S	L	N	K	V	I	G	E	T	E	E	I	P	A	A	T	E	N	E	N	E	N	E					
UniRef90_I1XRY8	R	T	G	F	Y	M	S	L	I	G	T	P	N	E	A	Q	I	A	Q	A	W	A	S	M	Q	D	I	L	N	Q	S	E	I	P	E	L	N	E	N	E	N	E	N	E							
UniRef90_E6X176	R	T	G	F	Y	M	S	L	I	G	T	P	D	E	E	V	L	E	A	K	A	W	A	S	M	R	D	V	L	E	Q	E	A	I	P	E	L	N	E	N	E	N	E	N	E						
UniRef90_W6S005	R	T	G	F	Y	L	T	V	W	G	E	V	E	P	E	E	V	L	E	A	L	K	Y	G	L	N	K	V	L	E	A	E	E	I	P	A	A	T	E	N	E	N	E	N	E						
UniRef90_E1STH1	R	T	G	F	Y	M	S	L	I	G	T	P	S	E	T	Q	V	A	D	A	W	R	A	S	M	E	D	V	L	Q	V	E	D	I	P	E	L	N	E	N	E	N	E	N	E						
UniRef90_U1RNV3	Q	T	G	F	Y	L	L	A	G	E	P	D	V	E	G	A	I	G	L	V	S	R	T	F	R	D	I	D	A	V	C																				

QUERY K Q C G Q A K L H D L E G A K R L M R F W L S Q D K E E L L K V F G  
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 UniRef90\_K6D475 I V Q C G W A A S H S L E E G A K E V A K N M L A H K E E W T E V F A  
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UniRef90_T1DVB8	L	D	S	F	K	V	D	H	T	I	M	P	A	P	A	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_H7EGW6	V	E	S	F	T	M	D	H	T	K	V	V	A	P	F	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_C5R8X5	V	E	S	F	T	L	D	H	T	K	V	K	A	P	Y	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_M2D659	V	E	S	F	K	L	D	Y	T	K	V	T	A	P	Y	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_R2SR64	V	E	S	F	E	L	D	H	N	L	V	K	A	P	Y	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_UPI00020D9B19	V	E	S	F	T	L	D	H	T	K	V	L	A	P	Y	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P	
UniRef90_Z9JRC0	V	E	S	F	T	M	D	H	T	R	V	V	K	A	P	Y	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P
UniRef90_A6Q5E8	L	V	E	S	F	T	V	D	H	T	K	M	P	A	P	A	V	R	L	A	S	E	K	T	G	R	K	Q	G	D	E	I	V	S	K	F	D	V	R	F	C	Q	P
UniRef90_UPI00036FD96D	V	E	S	F	T	M	D	H	T	K	V	D	A	P	Y	V	R</																										

UniRef90\_F2NTN2 N K E F M P T G A V I H G L E H H L L V A E Y L R R E E L P R I V I D D F S P M G G  
UniRef90\_F7Q1F0 N K E I M S T A G G L H H T T L E E H H L L A G Y L R R E E L P G G Y D I V D D C S P F F G G  
UniRef90\_U1RBV0 N E K E A I P T T G G A V H H T T L E E H H L L A A D K L M R D R L D E G G I V V D D I S P F M G G  
UniRef90\_S0P792 N E K E M P T S A G A V H H T T L E E H H L L A A T Y M R S D R E I D E G G I V V D D I S P F M G G  
UniRef90\_M7NFE1 N K D A M P T S A G A V H H T T L E E H H L L A A T Y M R S D R E I D E G G I V V D D I S P F M G G  
UniRef90\_D3PQU0 N K E A L S T G A V H H T T L E E H H L L A A T Y M R S D R E I D E G G I V V D D I S P F M G G  
UniRef90\_UPI0003B471B5 N Q E H F L D T A G L H H T T L E E H H L L A A G L L R D Q L E S G G I V V D D C S P F F G G  
UniRef90\_W6T468 N V D A I P T A G L H H T T L E E H H L L A A G L L R D Q L E S G G I V V D D C S P F F G G  
UniRef90\_N9XUG0 N K E S F G S T A A M H H G L E E H H L L A A H F Y M R Q R I D E G I I I D D F S P F M G G  
UniRef90\_L0K9R6 N Q G A I S T A A A L H H S L E E H H L L A A K Y M R Q R I D E G I I I D D I S P F M G G  
UniRef90\_AORM88 N T E I L P Q K G T H H T T L E E H H L L F A G F M R D H L L N N N D V E I I I D D I S P F M G G  
UniRef90\_C3XJC4 N T E I L D E K G L H H T T L E E H H L L F A G F M R D H L L N G K N T E I I I D D I S P F M G G  
UniRef90\_K4RLT5 N K A H M D M P S L H H S L E E H H L L V A E L I R N H A D Y S E Q V E I V L D D F S P F M G G  
UniRef90\_X2H624 N K K L L P E K G I H H T T L E E H H L L F A G F M R D H L L N S E Q V E I I D D I S P F M G G  
UniRef90\_UPI0003752D87 N S E H L D M R A V H H S I E E H H L L S A E L M R D H T D R D S V E I I I D D F S P F M G G  
UniRef90\_Q65V14 N K E I L S P R K G I H H T T L E E H H L L F A G F M R E H L L N G D S V E I I I D D I S P F M G G  
UniRef90\_S2ZRD4 N A G E I S P S G L H H T T L E E H H L L A S L L R D R I D N G G E I I I D D I S P F F G G  
UniRef90\_Q7MQP3 N Q E I L S E T K G L H H T T L E E H H L L F A G F M R E H L L N G G E I I I D D I S P F M G G  
UniRef90\_M8DQQ3 N E S E L P T S A L H H T T L E E H H L L F A G V Y F R E E L E G G I I I D D V I S P F M G G  
UniRef90\_D4YES2 N Q D S I P T S A L H H T T L E E H H L L F A G A Y T R D Y L E E G I V I D D I S P F M G G  
UniRef90\_Q0TUQ5 N K E L L S P D K G M H H T T L E E H H L L A G F M R S K L L D E G D V I V D D I S P F M G G  
UniRef90\_D7BBC0 N Q E I L P Q A I H H T T L E E H H L L A A G Y L R S H L L E G D V I V D D I S P F M G G  
UniRef90\_R7FSM8 N K E V M N T A E V H H T T L E E H H L L A A T F L R N H A E Y A D K T I Y F G P F M G G  
UniRef90\_S3Z4X4 N V D A L E T E T V H H S I E E H H M M A E F S R N H S D D I D D I S P F M G G  
UniRef90\_UPI0003B35DCD N V S A I P T A G I H H T T L E E H H L L A A S L L R D R L S D G H V I D D I S P F M G G  
UniRef90\_UPI000471F152 N T E A I P T S A L H H T T L E E H H L L A A Y I R D Y L D E G H V I D D I S P F M G G  
UniRef90\_R2THK1 N E D E L P T A A V H H S L E E H H L L A A V N L R D H L S E G I I I D D I S P F M G G  
UniRef90\_A5EVY3 N R E Q M L M P A L H H S L E E H H L L A A V L M R N H S D G K I L D I S P F M G G  
UniRef90\_D9QR17 N E N A V P T G A M H H T T L E E H H L L A A G Y M R E R I D D N V V D V I S P F M G G  
UniRef90\_E0UR25 N V I K M D G R G I H H T T L E E H H L L F A G F M R E H L L N S K D V E I I I D D I S P F M G G  
UniRef90\_UPI0003655F73 N Q G A M P T G A I H H T T L E E H H L L A A G Y M R A H L L E G K I V D I S P F M G G  
UniRef90\_C2GLB2 N K E H L E M P T V H S I E E H H M T A E H M R N H T D R K L I D F S P F M G G  
UniRef90\_R5BXH2 N E E V M N T A E L H A M E H H L L A A T Y L R N Q P D F K D K I V I W G P F M G G  
UniRef90\_K0B0F1 N K G G M N M S G I H H T T L E E H H L L A A V Y L R E E A L G E D K I V I D I S P F M G G  
UniRef90\_E8NGC1 N E G E I P T A G L H H T T L E E H H L L A S L V R D R I D G G I I I D D I S P F F G G  
UniRef90\_I3DJA1 N K E N I P S K G L H H T T L E E H H L L F A G F M R D H L L N A T D V E I I I D D I S P F M G G  
UniRef90\_B2UWX8 N K E E F G T A A M H G L E E H H L L A H E L R A K L E G I I I D D I S P F M G G  
UniRef90\_D5V4X1 N K D M M S E K G I H H T T L E E H H L L F A G F I R E H L L N S P T V E I I I D V I S P F M G G  
UniRef90\_H0IXG7 N E D M M G E K G I H H T T L E E H H L L F A G F M R N H L L N S D S V E I I I D D I S P F M G G  
UniRef90\_G9PGC9 N Q T H L E M P A V H H S I E E H H L T A E L M R N H T D K L I D F S P F M G G  
UniRef90\_M1S712 N E E I L P E R G T H H T T L E E H H L F A G F M R N H L L N G N G V E I I I D I S P F M G G  
UniRef90\_A1SZZ2 N E D L L S E K G I H H T T L E E H H L F A G F M R D H L L N S P N G V E I I I D I S P F M G G  
UniRef90\_UPI0002558F7A N D S M M G E K G I H H T T L E E H H L F A G F M R D H L L N G N G V E I I I D I S P F M G G  
UniRef90\_R5GZ39 N E E V M N T A E M H H T T L E E H H L G A T F L R N H P V Y K D K T I Y F G P F M G G  
UniRef90\_T1DVB8 N Q E I L S E K G I H H T T L E E H H L F A G F M R D Y L N T H N I E I I I D D I S P F M G G  
UniRef90\_H7EGW6 N K E F M P T G A I H H A I E E H H L V A E F I R D E I D G G I V I D D F S P F M G G  
UniRef90\_C5R8X5 N E T A I E T A G V H H T T L E E H H L F A S L V R D E I D G G I I I D D I S P F F G G  
UniRef90\_M2D659 N Q G A I P T G G L H H T T L E E H H S L A S L I R D R I D G G M I I D D F S P F F G G  
UniRef90\_R2SR64 N Q D A L P T G A L H H T T L E E H H L L A A V N L R D Y L T G G I I I D D I S P F M G G  
UniRef90\_UPI00020D9B19 N E T S I E T G G L H H T T L E E H H L L F A G L V R D E I D G G I I I D D M S P F F G G  
UniRef90\_Z9JRC0 N V D H L E S E T V H H S I E E H H L L F A G H M R E H L L N S D T V E I I I D I S P F M G G  
UniRef90\_A6Q5E8 N K E I M S V K G T H H T T L E E H H L F A G F M R D H L L N S D T V E I I I D I S P F M G G  
UniRef90\_UPI00036FD96D N K T H M E M P G L H H S L E E H H L M A E N V R N H T D H D K V V A L I D D F S P F M G G  
UniRef90\_G7HW59 N S E H L E M S P T V H H S I E E H H M L A E L M R N H T D A L I D D F S P F M G G  
UniRef90\_E8LLB3 N H E I L P S A G L H H T T L E E H H F F A G F M R E H L L N G P E V E I I I D I S P F M G G  
UniRef90\_Q7VNV8 N M E I M S S K G I H H T T L E E H H L Y A G F M R D H L L N S D K V E I I I D I S P F M G G  
UniRef90\_B7A6N5 N R E A L P T A A L H H T T L E E H H L L A G Y I R D H L P G K V I D I S P F M G G  
UniRef90\_R5ZCW6 N R E V I N T A E I H H T T L E E H H L L G A T F L R N H P D W K E K V I Y F G P F M G G  
UniRef90\_D0BKZ5 N K Q E M P T G V I H H T F E H H L L A D L L R D R V D G K I I D I S P F F G G  
UniRef90\_C0BWV1 N E P V M N T A E M H A I E E H H L A A T F L R N H A K Y G D R T I Y F G P F M G G  
UniRef90\_UPI0003FA767B N V I H L D M P A V H H S I E E H H L T A E L M R N H T D R L I D F G P F M G G  
UniRef90\_C0W4M4 N V D H L D M K A V H H S I E E H H L T A E L M R N H T D R L I D W G P F M G G  
UniRef90\_UPI000462C237 N K A H L E M S P T V H H S I E E H H L T A E L M R N H T D A L I D F G P F M G G  
UniRef90\_UPI000319A535 N K E H L D M A A I H H S I E E H H M T A H H M R N H T D G A L I V D D F S P F M G G  
UniRef90\_Q086L5 N K D I L S E R G L H H T T L E E H H L F A G F M R E H L L N G D G I E I I D I S P F M G G  
UniRef90\_C8PFC7 N L E I M S E R G T H H T T L E E H H L F A G F M R D H L L N S A D V E I I I D I S P F M G G  
UniRef90\_D2U034 N K Q L L T E K G I H H T T L E E H H L F A G F M R D H L L N S S D I E I I D I S P F M G G  
UniRef90\_UPI00046EE56E N Q A I L S E Q G I H H T T L E E H H L Y A G F M R D H L L N S S E H V E I I I D I S P F M G G  
UniRef90\_E4UA16 N R E V I G T G A M H H T F E H H L L A A M K M R D H L L E G I V V D V I S P F M G G  
UniRef90\_R7IRY5 N E P V M N T A E V H H T T I E E H H L A A T F L R N H P Q Y K E K C V I Y F G P F M G G  
UniRef90\_BONCW2 N E P V M N T A E V H H T T I E E H H L A A T F L R N H E E Y A D R T I Y F G P F M G G  
UniRef90\_C0W146 N K E H L D T E A L H H S V E E H H M A N F M R N Y T D K I I G F A P F M G G  
UniRef90\_F3B9D8 N E P V M N T A E M H H T T I E E H H L A A T F L R N H K F G E K T I Y F G P F M G G  
UniRef90\_V8BW40 N R E V L H N G A I H A M E H H L A A T Y L R N D A E W R D K I I Y W G P F M G G  
UniRef90\_F3YAW5 N Q D A M S T A A M H H T T I E E H H L L A A V N L R D E L N D I I D I S P F M G G  
UniRef90\_B1YKZ3 N V I E Q M P M R A M H H T T I E E H H L L A A E N I R N Y S D D V I D V I S P F M G G  
UniRef90\_E0QL09 N E P V M N T A E M H H T T I E E H H L G A T F L R N H A Q F K D D V I Y F G P F M G G  
UniRef90\_UPI0004792010 N E P V I N T A E V H H S I E E H H L A A T Y L R N D Q A I S A K T I Y F G P F M G G  
UniRef90\_UPI000370FC13 N K G H L E M P A V H H S I E E H H L T A E H M R N H T D K I I D F S P F M G G  
UniRef90\_R5D5F7 N K E V M N T A E V H H T T I E E H H L G A T F L R N H P T Y K D L T I Y F G P F M G G  
UniRef90\_C4L419 N E G L M P M R A V H H S I E E H H L A E N S R N H S E D I V D I S P F M G G  
UniRef90\_R9MDH0 N E P V M N T A E E I H H T T I E E H H L A A T F L R N H S E F A D R T I Y F G P F M G G  
UniRef90\_R5IHR6 N E E V M N T A E M H H T T I E E H H L G A T F L R N H K D F G D K T V Y F G P F M G G  
UniRef90\_W1TQR5 N Q E H L E M D T V H H S I E E H H L S A E L M R N H T D K I I D F S P F M G G  
UniRef90\_G2DRF5 N Q E I L S E K G I H H T T L E E H H L F A G F M R D H L L N S K D V E I I I D I S P F M G G  
UniRef90\_C2CR51 N E E H L E M P T V H S I E E H H M M A N F M R D Y T D K I I G F A P F M G G  
UniRef90\_I2K589 N Q E A L P E K G I H H T T L E E H H L F A G F M R D H L L N S K D V E I I D I S P F M G G  
UniRef90\_D5UC86 N V A H L E M D A V H H S L E E H H L F A E H S R N H S G R I V I D D F S P F M G G  
UniRef90\_K1M6B3 N Q D A L P T A A V H H T T L E E H H L A A I H L R D E L K G V I D I S P F M G G  
UniRef90\_R5EUY8 N Q G M M P E K G I H H T T L E E H H F F A G F M R E H L L N E K G V V E I I D I S P F M G G  
UniRef90\_D0YP33 N Q E H L E M P V H H S I E E H H S I A E H M R N H T D T K Q I V I D D F S P F M G G  
UniRef90\_B1QYI0 N R E V M N T A E I H H T T I E E H H L G A T F L R N N E E Y K E K V V Y F G P F M G G



		130	140	150																																
UniRef90_F2NTN2	V	E	C	G	N	Y	K	D	H	D	L	E	G	A	K	K	F	A	A	R	W	V	K	E	L	R	E									
UniRef90_F7Q1F0	V	Q	C	G	N	Y	K	D	L	D	L	F	G	A	K	E	Y	A	K	E	V	V	K	K	L	E	D	K	Y	K						
UniRef90_U1RBV0	E	T	C	G	N	Y	K	D	H	H	S	L	F	T	A	R	E	W	C	K	L	L	L	S	Q											
UniRef90_S0P792	E	S	C	G	N	Y	R	D	H	H	S	L	F	G	A	K	E	Y	A	K	L	V	I	D	E	G	S	E								
UniRef90_M7NFE1	L	E	C	G	N	Y	R	D	H	H	S	L	F	A	A	K	E	Y	S	K	Q	V	L	D												
UniRef90_D3PQU0	L	E	C	G	N	Y	R	D	H	D	P	Q	S	A	K	A	W	A	E	R	L	L	H	S	N	L										
UniRef90_UPI0003B471B5	V	Q	C	G	N	Y	R	D	H	D	L	E	G	A	K	K	W	A	R	Y	F	L	D	H	K	D	G	W	R	Q	V	M	A			
UniRef90_W6T468	Y	S	C	G	N	Y	K	D	H	H	S	L	F	S	A	K	E	W	A	Q	K	I	V	T	E											
UniRef90_N9XUG0	I	Q	C	G	N	Y	K	D	H	H	S	L	F	G	A	K	E	Y	A	K	E	A	L	K	K	G	F	S	L	N	I	Y	G			
UniRef90_L0K9R6	K	E	C	G	N	Y	R	D	H	H	S	L	F	G	A	K	E	Y	A	Q	Q	V	L	A	G	F	K	E								
UniRef90_AORM88	Y	Q	C	G	T	A	C	T	L	H	H	S	L	D	E	A	Q	D	I	A	R	N	I	L	A	K										
UniRef90_C3XJC4	Y	Q	C	G	T	A	K	M	H	H	S	L	H	N	A	Q	K	I	A	Q	D	M	L	D	K											
UniRef90_K4RLT5	I	Q	C	G	F	A	A	S	H	H	S	L	E	G	A	Q	G	L	A	R	E	F	L	A	K	R	A	E	W							
UniRef90_X2H624	Y	Q	C	G	T	Y	K	M	H	H	S	L	D	E	A	K	A	L	A	E	E	I	I													
UniRef90_UPI0003752D87	V	Q	C	G	T	G	W	G	A	N	H	S	L	E	Q	A	Q	E	A	A	R	A	F	L	A	K	R	D	E	W	E	T	V			
UniRef90_Q65V14	Y	Q	C	G	T	G	T	Y	T	E	H	H	S	L	A	D	A	H	E	T	A	R	H	V	I	E	K									
UniRef90_S2ZRD4	Y	S	C	G	N	Y	R	D	H	H	S	L	F	S	A	R	E	W	S	R	A	I	L	E	Q											
UniRef90_Q7MQP3	Y	Q	C	G	T	A	C	M	H	H	S	L	K	E	A	Q	E	I	A	R	T	V	L	D	R											
UniRef90_M8DQQ3	V	Q	C	G	N	F	R	D	H	H	S	L	F	S	A	K	E	Y	A	K	M	I	L	E	K											
UniRef90_D4YES2	V	E	C	G	N	F	R	D	H	H	S	L	W	G	A	Q	Q	Y	A	K	D	V	L	E												
UniRef90_Q0TUQ5	L	E	C	G	S	A	K	L	H	H	S	L	E	L	A	K	S	H	A	K	Q	V	L	E	N											
UniRef90_D7BBC0	L	E	C	G	N	Y	R	N	H	D	L	T	L	A	K	D	W	A	R	R	V	L	D	K	G	L										
UniRef90_R7FSM8	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	L	S	K	K	Y	L	T	E	V	L	E	N	I	T						
UniRef90_S3Z4X4	I	Q	C	G	T	G	W	G	A	H	H	S	L	E	G	A	K	R	A	A	Q	S	F	L	E	K	K	S	E	W	L	Q	V	E	A	
UniRef90_UPI0003B35DCD	V	S	C	G	N	Y	V	D	H	H	S	L	F	S	A	K	E	V	S	K	H	V	L	E	K											
UniRef90_UPI000471F152	K	E	C	G	N	Y	R	D	H	H	S	L	F	A	A	K	E	Y	A	K	I	V	L	E	H											
UniRef90_R2THK1	K	E	C	G	N	Y	K	D	H	H	S	L	F	S	A	Q	E	Y	A	K	L	V	L	E	K											
UniRef90_A5EVY3	E	Q	C	G	F	A	A	N	H	H	S	L	S	G	A	Q	E	I	A	R	Y	L	L	A	H	R	N	K	W	E	Q	V	F			
UniRef90_D9QR17	R	E	C	G	N	Y	R	D	H	H	S	L	F	G	A	K	E	Y	A	E	E	V	L	A	G	F	K	E								
UniRef90_E0UR25	Y	Q	C	G	S	Y	K	M	H	H	S	L	K	N	A	T	A	K	I	A	S	D	I	L	S	H										
UniRef90_UPI0003655F73	L	E	C	G	N	W	R	D	H	D	L	A	T	A	R	E	L	A	R	E	V	L	E	R												
UniRef90_C2GLB2	K	Q	C	G	T	G	W	G	Q	N	H	S	L	K	G	A	Q	E	A	V	I	E	K	M	L	A	K	R	D	E	W	G	T	V	F	A
UniRef90_R5BXH2	K	D	C	G	N	Y	L	D	M	N	L	G	M	A	K	Y	L	A	K	K	Y	L	D	D	V	L	Y	Q	I	T	E					
UniRef90_K0B0F1	I	Q	C	G	N	Y	K	E	H	H	S	L	E	E	A	I	E	Y	A	E	S	F	V	K	N	I										
UniRef90_E8NGC1	F	S	C	G	N	Y	R	D	H	H	S	L	H	S	A	R	E	W	S	K	V	V	L	E	K											
UniRef90_I3DJA1	Y	Q	C	G	T	Y	T	E	H	H	S	L	A	E	A	Q	I	A	A	R	H	V	I	E	K	G	I	G	I	N	K	N				
UniRef90_B2UWX8	I	Q	C	G	N	Y	R	D	L	D	L	S	L	F	G	A	K	E	Y	A	K	E	A	L	E	R										
UniRef90_D5V4X1	Y	Q	C	G	T	C	N	M	H	H	S	L	E	E	A	K	D	I	A	K	D	I	L	S	H											
UniRef90_H0IXG7	F	Q	C	G	T	F	V	M	H	H	S	L	N	D	A	Q	Q	I	A	Q	S	I	I	D	Q	G	I	G	I	N	K	N				
UniRef90_G9PGC9	V	Q	C	G	T	G	W	G	A	N	H	S	L	E	E	A	A	Q	A	V	S	Q	F	L	A	Q	R	A	V	W	G	Q	V	M	A	
UniRef90_M1S712	Y	Q	C	G	T	Y	K	M	H	H	S	L	E	E	A	H	Q	I	A	K	N	I	I	E	R	D	V	R	V	N	K	N				
UniRef90_A1SZZ2	Y	Q	C	G	T	Y	A	M	H	H	S	L	A	E	A	E	A	K	T	I	A	Q	A	V	I	D										
UniRef90_UPI0002558F7A	Y	Q	C	G	T	F	A	M	H	H	S	L	E	E	A	K	E	I	A	Q	S	L	L	D	H											
UniRef90_R5GZ39	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	N	Y	L	G	K	R	Y	L	E	Q	V	L	Y	N	I	K	E					
UniRef90_T1DVB8	F	Q	C	G	T	F	A	M	D	H	S	L	D	E	A	K	Q	I	A	C	N	V	L	D	R											
UniRef90_H7EGW6	I	Q	C	G	N	W	R	D	M	D	L	D	G	A	K	E	F	A	R	K	W	I	E	E	T	K	G	W	N							
UniRef90_C5R8X5	K	E	C	G	N	Y	K	D	H	H	S	L	H	S	A	K	E	W	S	K	I	L	L	E	Q											
UniRef90_M2D659	K	E	C	G	N	Y	R	D	H	H	S	L	F	T	A	K	G	W	A	K																
UniRef90_R2SR64	K	E	C	G	N	Y	R	D	H	H	S	L	F	S	A	Q	E	Y	A	R	Q	V	L	Q	Q											
UniRef90_UPI00020D9B19	E	S	C	G	N	Y	K	D	H	H	S	L	F	S	A	K	E	W	A	K	L	I	L	S	E											
UniRef90_Z9JRC0	V	Q	C	G	T	G	W	G	A	H	H	S	L	E	G	A	Q	T	A	A	R	A	F	L	D	R	R	D	E	W	E	D	V			
UniRef90_A6Q5E8	Y	Q	C	G	S	C	Y	M	H	H	S	L	N	E	A	Q	K	I	A	K	H	I	V	E	N											
UniRef90_UPI00036FD96D	V	Q	C	G	R	A	A	S	H	H	S	L	D	G	A	K	A	I	A	N	D	M	L	E	K	W	G	S	W	S	T	V	F			
UniRef90_G7HW59	V	Q	C	G	T	G	W	G	E	S	H	S	L	E	G	A	Q	E	A	A	R	A	L	L	A	K	R	D	E	W	A	Q	V	M	A	
UniRef90_E8LLB3	Y	Q	C	G	S	C	Q	M	H	H	S	L	H	E	A	K	E	I	A	K	E	V	L	K	H											
UniRef90_Q7VNV8	Y	Q	C	G	T	F	S	E	H	H	S	L	E	D	A	H	Q	I	A	R	D	V	L	A	K											
UniRef90_B7A6N5	R	E	C	G	N	Y	R	D	H	D	L	E	G	A	K	A	W	A	E	K	V	L														
UniRef90_R5ZCW6	R	D	C	G	N	Y	L	D	M	N	L	P	L	A	K	I	V	A	R	R	Y	L	D	H	T	L	N	H	L	T	E					
UniRef90_D0BKZ5	V	Q	C	G	N	Y	K	D	H	H	S	L	F	G	A	K	E	Y	A	K	Q	V	L	E	Q											
UniRef90_C0BWV1	K	D	C	G	N	C	L	D	M	N	L	P	M	A	K	Y	L	A	G	R	Y	L	K	E	V	L	E	Q	I	T						
UniRef90_UPI0003FA767B	I	Q	C	G	T	G	W	G	A	N	H	S	L	E	D	A	Q	A	V	R	S	F	L	E	A	R	D	Q	W	Q	I	V	M			
UniRef90_C0W4M4	V	Q	C	G	T	G	W	G	A	N	H	C	L	T	A	A	Q	D	A	V	R	A	F	L	D	A	R	E	E	W	D	Q	V	L	A	
UniRef90_UPI000462C237	V	Q	C	G	T	G	W	G	A	N	H	S	L	E	G	A	Q	K	A	V	R	A	F	L	A	E	R	E	S	W	E	E	V			
UniRef90_UPI000319A535	T	Q	C	G	T	G	W	A	A	S	H	S	L	E	G	A	K	T	A	V	R	D	F	L	A	K	R	G	E	W	D	Q	V	F	A	
UniRef90_Q086L5	Y	Q	C	G	T	Y	E	M	H	H	S	L	E	Q	A	Q	D	I	A	R	M	I	I	A												
UniRef90_C8PFC7	F	Q	C	G	T	F	A	M	H	H	S	L	A	E	A	E	K	Q	I	A	Q	N	V	L	N	K	G	I	G	V	I	K	N			
UniRef90_D2U034	Y	Q	C	G	T	Y	E	M																												



	1	10	20	30	40																																													
UniRef90_D9RYS3	V	E	S	F	K	L	D	H	T	T	K	V	L	K	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	K	D	S	L	V	V	K	Y	D	L	R	L	V	Q	P			
UniRef90_R6G2E9	V	T	S	F	F	T	L	D	H	L	K	V	L	K	V	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	K	D	S	L	V	V	K	Y	D	L	R	L	V	Q	P		
UniRef90_D7BLS9	V	E	S	F	F	N	L	D	H	R	E	V	S	A	A	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	H	G	D	S	L	V	V	K	Y	D	L	R	L	V	Q	P	
UniRef90_UPI00047C7DB7	V	E	S	F	F	T	L	D	H	D	K	V	L	K	V	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	K	D	S	L	V	V	K	Y	D	L	R	L	V	Q	P		
UniRef90_L8XXP8	V	E	S	F	F	T	L	D	H	D	K	V	L	K	V	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	K	D	S	L	V	V	K	Y	D	L	R	L	V	Q	P		
UniRef90_R7A8T7	I	T	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	R	V	V	G	G	K	G	D	D	Q	V	L	T	T	F	D	L	R	L	T	Q	P		
UniRef90_R6GXR5	I	T	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	R	V	V	G	G	K	G	D	Q	V	L	T	T	F	D	L	R	L	T	Q	P			
UniRef90_F0Z4F8	I	A	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	R	R	D	E	V	V	G	G	K	G	N	G	S	P	V	T	T	F	D	L	R	L	T	N	P		
UniRef90_D3ILE9	I	P	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	R	K	D	N	V	V	G	G	K	G	N	G	S	D	V	V	T	T	F	D	L	R	L	T	E	P	
UniRef90_R5AY78	I	A	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	R	K	D	T	T	T	P	K	K	N	G	D	V	V	I	T	V	Y	D	L	R	L	F	C	V	P	
UniRef90_UPI000255646A	L	D	S	F	K	V	D	H	T	K	M	K	A	P	A	V	I	R	I	A	K	T	M	K	T	T	P	K	K	K	N	G	D	D	I	I	T	V	Y	D	L	R	L	F	C	V	P			
UniRef90_R5JK98	I	A	S	F	F	T	I	N	H	L	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	K	V	V	G	G	K	G	D	D	R	V	V	T	T	F	D	L	R	L	T	K	R	P		
UniRef90_I0R7R3	I	T	S	F	F	T	I	N	H	L	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	M	V	V	G	G	K	G	D	D	R	V	V	T	T	F	D	L	R	L	T	K	R	P		
UniRef90_R5QFC8	I	T	S	F	F	T	D	H	L	R	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	N	G	D	H	L	I	I	T	T	F	D	L	R	L	T	S	R	P				
UniRef90_L0A238	V	E	S	F	F	T	L	D	H	T	K	V	L	K	V	A	P	Y	V	V	R	L	A	S	E	R	K	D	K	P	V	G	P	N	R	G	D	A	I	S	K	Y	D	L	R	L	L	Q	P	
UniRef90_H1HU78	I	T	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	K	F	G	G	T	F	H	A	G	D	T	V	T	T	F	D	L	R	L	T	M	T	A	P
UniRef90_R6JUB9	I	A	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	K	F	G	G	T	F	H	A	G	D	T	V	T	T	F	D	L	R	L	T	M	T	A	P
UniRef90_C5WDI8	L	D	S	F	F	K	I	D	H	T	R	M	T	A	P	A	I	R	M	A	K	I	M	H	T	F	H	A	G	D	T	V	T	V	I	F	D	L	R	L	F	C	V	P						
UniRef90_R6RZY0	I	A	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Q	A	G	G	D	S	L	I	V	T	T	F	D	L	R	L	T	M	T	A	P			
UniRef90_E9SK35	I	A	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Q	A	G	G	D	S	L	I	V	T	T	F	D	L	R	L	T	M	T	A	P				
UniRef90_R6YLM9	I	A	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Q	A	G	G	D	S	L	I	V	T	T	F	D	L	R	L	T	M	T	A	P				
UniRef90_UPI0003B5D55A	V	E	S	F	F	N	L	D	H	R	T	V	L	A	A	P	Y	V	V	R	V	A	D	T	K	Q	L	P	G	G	S	T	G	D	V	L	T	K	Y	D	L	R	L	F	T	Q	P			
UniRef90_R5NSS3	I	A	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	R	D	Y	I	V	G	G	S	E	S	D	V	A	T	T	F	D	L	R	L	T	M	T	A	P		
UniRef90_UPI000379C752	I	P	S	F	F	T	D	H	L	R	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Y	V	V	P	P	T	D	G	A	A	V	T	T	F	D	L	R	L	T	T	P	P			
UniRef90_R6A2L5	I	A	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	G	D	A	A	V	T	T	F	D	L	R	L	T	T	P	P				
UniRef90_UPI000468B2A4	P	S	F	F	T	V	D	H	L	N	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	G	D	A	A	V	T	T	F	D	L	R	L	T	T	P	P					
UniRef90_R6RGY7	I	A	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	G	D	A	A	V	T	T	F	D	L	R	L	T	T	P	P				
UniRef90_R5CNL9	I	A	S	F	F	T	V	D	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	G	D	A	A	V	T	T	F	D	L	R	L	T	T	P	P				
UniRef90_UPI00046497C9	I	T	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	K	V	V	G	N	T	M	I	L	T	T	T	F	D	L	R	L	T	S	P					
UniRef90_R9LQZ0	I	T	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	K	V	V	G	N	T	M	I	L	T	T	T	F	D	L	R	L	T	S	P					
UniRef90_B9L8B0	L	D	S	F	F	L	V	D	H	V	K	M	P	S	P	G	G	L	R	V	A	K	H	V	K	T	P	P	N	D	T	T	L	I	T	V	Y	D	L	R	L	F	A	K	P					
UniRef90_R9R9Z5	I	A	S	F	Q	V	N	H	K	K	L	L	N	R	P	G	G	V	Y	V	S	R	F	D	E	I	G	S	E	G	N	Y	I	T	T	F	D	L	R	L	K	L	P							
UniRef90_R5KKB1	I	A	S	F	F	T	D	H	L	K	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	H	I	G	S	E	G	N	Y	I	T	T	F	D	L	R	L	T	M	T	A	P				
UniRef90_R7PPC1	I	T	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Q	V	V	G	S	E	G	G	M	V	T	T	F	D	L	R	L	T	M	T	A	P			
UniRef90_W4TVU6	V	E	S	F	F	N	L	D	H	T	K	V	L	K	V	A	P	Y	V	V	R	V	A	D	V	K	H	L	P	A	G	D	T	L	T	K	Y	D	V	L	R	L	F	C	Q	P				
UniRef90_C9LH93	I	P	S	F	F	T	D	H	L	R	L	L	L	L	R	P	G	G	V	Y	V	S	R	R	K	D	R	V	V	G	G	V	I	V	T	T	F	D	L	R	L	K	R	E	P					
UniRef90_R6EXC6	I	P	S	F	F	T	I	N	H	E	R	L	L	L	R	P	G	G	V	Y	V	S	R	R	D	Q	V	V	V	I	V	I	N	G	E	V	T	T	F	D	L	R	L	K	R	E	P			
UniRef90_R7HNK7	I	A	S	F	F	T	I	N	H	L	E	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	T	E	H	G	D	I	I	T	T	T	F	D	L	R	L	K	R	E	P					
UniRef90_U2NK85	I	A	S	F	F	T	I	N	H	L	E	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	T	E	H	G	D	I	I	T	T	T	F	D	L	R	L	K	R	E	P					
UniRef90_H1PZV3	I	P	S	F	F	N	I	D	H	E	H	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	D	V	V	G	T	F	T	V	T	T	F	D	L	R	L	M	K	A	P						
UniRef90_R5UP43	I	P	S	F	F	T	D	H	E	H	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	N	M	G	G	Q	V	I	L	T	T	T	F	D	L	R	L	K	R	E	P					
UniRef90_B9E1X5	I	T	S	F	F	T	I	N	H	L	E	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	N	I	G	S	E	A	I	V	T	T	T	F	D	L	R	L	M	T	R	P					
UniRef90_R6B7D1	I	P	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	E	I	G	S	E	G	E	V	V	T	T	T	F	D	L	R	L	M	K	L	P				
UniRef90_R6A5W4	I	P	S	F	F	T	I	N	H	L	R	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	E	I	G	S	E	G	E	V	V	T	T	T	F	D	L	R	L	M	K	L	P				
UniRef90_J0UXC9	L	D	S	F	F	T	V	D	H	T	K	M	N	A	P	A	V	I	R	L	A	K	K	M	K	T	P	K	D	D	S	N	I	T	V	I	F	D	L	R	L	F	C	K	P					
UniRef90_U2UAP4	I	A	S	F	F	T	V	D	N	H	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	Q	S	V	V	G	T	T	T	T	F	D	L	R	L	T	M	T	A	P						
UniRef90_V2Y817	I	A	S	F	F	T	V	D	N	H	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	M	V	V	G	T	T	T	T	F	D	L	R	L	T	M	T	A	P							
UniRef90_R6QIG9	I	E	S	F	F	T	V	D	N	H	L	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	T	T	T	T	F	D	L	R	L	T	M	T	A	P							
UniRef90_R5U9A0	I	T	S	F	F	T	I	N	H	L	K	L	L	L	R	P	G	G	V	Y	V	S	R	K	D	S	V	V	G	T	T																			

UniRef90\_D9RYS3  
UniRef90\_R6G2E9  
UniRef90\_D7BLS9  
UniRef90\_UPI00047C7DB7  
UniRef90\_L8XXP8  
UniRef90\_R7A8T7  
UniRef90\_R6GXR5  
UniRef90\_F0Z4F8  
UniRef90\_D3ILE9  
UniRef90\_R5AY78  
UniRef90\_UPI000255646A  
UniRef90\_R5JK98  
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50 60 70 80  
N R D A I P T G G L H T H L E H L F A V Y F R Q Y L E D V I D V S P  
N E E V M N T A E L V H H S L I E H H L G A T F L R N H P D F G S K T I Y F F G P M G  
N V J A H L D M P A I V H H S L I E H H S T F A E Y A M R N H H A D D L I D D F S P M G  
U P I 0 0 0 4 7 C 7 D B 7 N E E V A I E T C G L H H T T M E H H I F A D L M R N H L E E G K L I D S P F G  
U n i R e f 9 0 \_ L 8 X X P 8 N E E V V M N T A E E L V H H T L I E H H L A A T W L R N N N D E E W K D R V Y F F G P M G  
U n i R e f 9 0 \_ R 7 A 8 T 7 N R E V V M N T A E E L V H H T L I E H H L G A A T F L R N D H A D F K D K V L Y F F G P M G  
U n i R e f 9 0 \_ R 6 G X R 5 N R E V L L E S Q G A V I H H A M E H H L A A T F L R N D H P E W K S D R V Y W G P M G  
U n i R e f 9 0 \_ F 0 Z 4 F 8 N R E P A L S P K G V I H H A M E H H L F A G F M R K H L N S S N V E I I D S P M G  
U n i R e f 9 0 \_ D 3 I L E 9 N K E M L P A K G M H T F E H H L L G A T F L R N D E K F R D K V L Y F F G P M G  
U n i R e f 9 0 \_ R 5 A Y 7 8 N E E P V M N T A E E L H H A I E H H L L G A T F L R N H K E W G E Q V N I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 2 5 5 6 4 6 A N E E P V M N T A E E I H H A I E H H L L G A T F L R N H E V Y K D Q V I Y F F G P M G  
U n i R e f 9 0 \_ R 5 J K 9 8 N Q G A I L S P S A L H H T L I E H H L L G A G Y L R D H L E D V I D V S P M G  
U n i R e f 9 0 \_ I 0 R 7 R 3 N E E P V M N T A E E L H H A I E H H L L G A T F L R N H K E W G E Q V N I Y F F G P M G  
U n i R e f 9 0 \_ R 5 Q F C 8 N E E P V M N T A E E I H H A I E H H L L G A T F L R N H E V Y K D Q V I Y F F G P M G  
U n i R e f 9 0 \_ L 0 A 2 3 8 N K Q G A I L S P S A L H H T L I E H H L L G A G Y L R D H L E D V I D V S P M G  
U n i R e f 9 0 \_ H 1 H U 7 8 N K E V M N T A E E V H H T L I E H H L L G A T F L R N H A D F G A R V D V I D V S P M G  
U n i R e f 9 0 \_ R 6 J U B 9 N E E P V M N T A E E V H H T L I E H H L L G A T F L R N H P E F A E K T V Y F F G P M G  
U n i R e f 9 0 \_ C 5 W D I 8 N K E I M P E K G L H H T L I E H H L L G A F A N F M R N Q H L S T A D I D I D S P M G  
U n i R e f 9 0 \_ R 6 R Z Y 0 N R E V M N T A E E M H H T L I E H H L L G A T F L R N D P E F G E K D I Y F F G P M G  
U n i R e f 9 0 \_ E 9 S K 3 5 N E E P V L N T A E E I H H T L I E H H L L G A T Y L R N H D S M K D H V I Y F F G P M G  
U n i R e f 9 0 \_ R 6 Y L M 9 N E E P V M N T A E E I H H S L I E H H L L G A T F L R N H D T M G E K V I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 3 B 5 D 5 5 A N Q S H L E M P T V H H S L I E H H T I A E K I R D H V D N V I D V S P M G  
U n i R e f 9 0 \_ R 5 N S S 3 N E E P V M N T A E E L V H H T L I E H H L L G A T F L R N H E K Y S D K V I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 3 7 9 C 7 5 2 N R E V L G Q G A E L H H T L I E H H L L G A A T Y L R N H A P T W G D S R K I V F W G P M G  
U n i R e f 9 0 \_ R 6 A 2 L 5 N K E V M N T A E E C H H T L I E H H L L G A A T F L R N H A E W S S R K I V Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 4 6 8 B 2 A 4 N R E A L G Q G A L H H T L I E H H L L G A A T Y L R N N E K W A D K I V Y W G P M G  
U n i R e f 9 0 \_ R 6 R G Y 7 N E E P V M N T A E E I H H T L I E H H L L G A T F L R N D H K V Y K D R V L Y F F G P M G  
U n i R e f 9 0 \_ R 5 C N L 9 N R E V M N T A E E L H H T L I E H H L L G A T F L R N D P E W K D R V I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 4 6 4 9 7 C 9 N E E P V M N T A E E V H H T L I E H H L L G A T F L R N D H E T F G N K T I V Y F F G P M G  
U n i R e f 9 0 \_ R 9 L Q Z 0 N E E P V L N T A E E V H H T L I E H H L L A A T Y L R N D N P Q W K D R V I Y F F G P M G  
U n i R e f 9 0 \_ B 9 L 8 B 0 N E E I I D E R A M H H T L I E H H L L G A F A G Y M R D N L S N Y E I I D S P M G  
U n i R e f 9 0 \_ R 9 R 9 Z 5 N R E V I N I A E L H H T L I E H H L L G A T F L R N H P T K K D D I I I Y F F G P M G  
U n i R e f 9 0 \_ R 5 K B K 1 N E E P V M N T A E E V H H T L I E H H L L G A T F L R N D K E Y G S K V I Y F F G P M G  
U n i R e f 9 0 \_ R 7 P P C 1 N E E V M N T A E E M H H T L I E H H L L G A T F L R N H H D T F G K K V I Y F F G P M G  
U n i R e f 9 0 \_ W 4 T V U 6 N K E H L D M P A V H S L I E H H S F A E C V R N H S D A V I D F F G P M G  
U n i R e f 9 0 \_ C 9 L H 9 3 N E E P V M T P A A A H H T L I E H H L L M A T F L R N D A E E W R D R I V Y W G P M G  
U n i R e f 9 0 \_ R 6 E X C 6 N R E A L H I G A L H H T L I E H H L L A A T F L R N S D A E E W K D R V I Y W G P M G  
U n i R e f 9 0 \_ R 7 H N K 7 N R E A V S Q S A L H H T L I E H H L L A A T F L R N H K Q W K D K I V Y W G P M G  
U n i R e f 9 0 \_ U 2 N K 8 5 N E E P V M N T A E E M H H A I E H H L L G A T Y L R N D H A D F G S K I Y F F G P M G  
U n i R e f 9 0 \_ H 1 P Z V 3 N R E A L H I G A L H H T L I E H H L L A A T Y L R N D K A E W G D R I I Y W G P M G  
U n i R e f 9 0 \_ R 5 U P 4 3 N R E A I G A G A L H H T M E H H L L A A T F L R N H P Q W G D Q K I V Y W G P M G  
U n i R e f 9 0 \_ B 9 E 1 X 5 N E E P V M N T A E E I H H T L I E H H L L G A T F L R N D S E Y G S K I V Y F F G P M G  
U n i R e f 9 0 \_ R 6 B 7 D 1 N Q E V L H N G A I H H T L I E H H L L A A T Y L R N D E E W K D R I V Y W G P M G  
U n i R e f 9 0 \_ R 6 A 5 W 4 N R E A L G Q G A I H H T L I E H H L L A A T F L R N H P V W K D R I V Y W G P M G  
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U n i R e f 9 0 \_ U 2 U A P 4 N R E V M N T A E E I H H T L I E H H L L G A T F L R N D E Q W S K V I Y F F G P M G  
U n i R e f 9 0 \_ V 2 Y 8 1 7 N K E V M N T A E E L H H T L I E H H L L G A T F L R N H E D Y K D G K V I Y F F G P M G  
U n i R e f 9 0 \_ R 6 Q I G 9 N K E V M N T A E E I H H T L I E H H L L G A T F L R N H A Q Y K D R V I Y F F G P M G  
U n i R e f 9 0 \_ R 5 U 9 A 0 N E E V L N T A E E V H H T L I E H H L L A A T F L R N H A E Y G P K T I Y F F G P M G  
U n i R e f 9 0 \_ R 6 D H S 7 N R E P L G P S A I H H T L I E H H L L A A T F L R N H P V W A D K I I Y W G P M G  
U n i R e f 9 0 \_ D 1 A K Y 0 N E E P V I N I A E L H H T L I E H H L L G A T F L R N D E E W K D K V I Y F F G P M G  
U n i R e f 9 0 \_ E 3 H C L 4 N E P V I N N G E H H T L I E H H L L A A T F L R N H E V W D E K T V Y F F G P M G  
U n i R e f 9 0 \_ G 4 L 3 V 1 N E K E L P T A G M H H T L I E H H L L A D L L R D R L E G I I D C S P F G  
U n i R e f 9 0 \_ Q 9 7 F 1 3 N E E V M N T A E E V H H T L I E H H L L G A T F L R N H G T Y A E K T V I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 3 6 E C 6 3 D N E K F I P N D A L H S L I E H H L V A E Y M R D Q T S N V I D F S P M G  
U n i R e f 9 0 \_ U P I 0 0 0 3 5 E E 5 B F N R E V L G V P E L H H T L I E H H L A A T Y L R N T P E Y K D R V I Y W G P M G  
U n i R e f 9 0 \_ U 2 U U 2 4 N R E V M N T A E P V H A I E H H L L A A T F L R N D P E W K D R V I Y F F G P M G  
U n i R e f 9 0 \_ F 4 L M A 9 N E E P V M N T A E E I H H T L I E H H L L A A T F L R N H P D F K A K T V I Y F F G P M G  
U n i R e f 9 0 \_ D 1 X Z 0 1 N R E A L H V D S I H H T L I E H H L L A A T F L R N D E E W K E R V I Y W G P M G  
U n i R e f 9 0 \_ F 7 J Q 9 4 N E E V M N T A E E I H H T L I E H H L L G A T F L R N H D D Y K Q N V I Y F F G P M G  
U n i R e f 9 0 \_ R 5 Y R N 6 N E E P V M N T A E E I H H T L I E H H L L G A T Y L R N N F W G D K T I Y F F G P M G  
U n i R e f 9 0 \_ G 5 G F W 9 N E E P V M D T A P I H H T L I E H H L L G A V F L R N H D K Y K D D I V Y F F G P M G  
U n i R e f 9 0 \_ E 1 Q W Q 6 N R E V M N T A E E L H H T L I E H H L L G A T F L R N D P E W A S R V I Y F F G P M G  
U n i R e f 9 0 \_ R 5 L 9 2 9 N E E P V L N T A E E V H H T L I E H H L L G A T F L R N H P D Y R D K V I Y F F G P M G  
U n i R e f 9 0 \_ E 7 M Q I 4 N K E V M N T A E E L H H T L I E H H L L G A T Y L R N H L M W K D R I V Y F F G P M G  
U n i R e f 9 0 \_ D 4 M X 3 8 N R E V M N T A E E M H H A I E H H L L A A T Y L R N N K E W Q D K I I Y F F G P M G  
U n i R e f 9 0 \_ E 3 G F J 9 N R E V I N T A E L H H T L I E H H L L G A T Y L R N D L E L S E K I I Y F F G P M G  
U n i R e f 9 0 \_ R 7 J 0 C 3 N R E A A D P R A L H H T L I E H H L L A A T W L R N N A E W R D C V I Y W G P M G  
U n i R e f 9 0 \_ R 5 E U U 6 N E E P V M N T A E E V H H T L I E H H L L A A T Y L R N N E T W K D K V I Y F F G P M G  
U n i R e f 9 0 \_ R 5 P F W 0 N R E A L H P G A L H H T L I E H H L L V A T Y L R N N E E W Q D R K I V Y W G P M G  
U n i R e f 9 0 \_ D 4 W 5 H 6 N R E V M N N A E I H H T L I E H H L L A A T F L R N H A T A A E Q T I Y F F G P M G  
U n i R e f 9 0 \_ G 1 W F 1 8 N R E A L H N G A I H H T L I E H H L L A A T F L R N D A E W K T R I V Y F F G P M G  
U n i R e f 9 0 \_ V 5 W D C 5 N R E V V D V P A L H H T L I E H H L L G A T F L R N D T E W K D E V V I Y F F G P M G  
U n i R e f 9 0 \_ L 1 M L I 8 N R E A L H V N A I H H T M E H H L L A A T F L R N H P T W A E R V I Y W G P M G  
U n i R e f 9 0 \_ R 6 H Y L 9 N R E V M N T A E E I H H T L I E H H L L G A T Y L R N D P E W K D R T V I Y F F G P M G  
U n i R e f 9 0 \_ U 2 V 3 R 0 N R E V M D T A A V H H T L I E H H L L G A T F L R N D A E W S E R V I Y F F G P M G  
U n i R e f 9 0 \_ E 9 S 8 V 0 N E P A I D V G A M H H T L I E H H V I A T Y L R N D P D W K D S V I Y W G P M G  
U n i R e f 9 0 \_ C 7 M P F 8 N R E V M D T A A V H H T L I E H H L L G A T F M R N D A E W G S R I V Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 4 7 0 2 D D 2 N R E V L G V P E L H H T L I E H H L L A A T Y L R N H S E W K D K V I Y W G P M G  
U n i R e f 9 0 \_ G 5 H I 6 1 N E E V I Q T A E L H H T L I E H H L L G A T Y L R I H S G Q G E N V I Y F F G P M G  
U n i R e f 9 0 \_ W 3 A N S 7 N E E P A V D N V A M H S L I E H H I G A T Y L R N D P D W K D E E T I Y W G P M G  
U n i R e f 9 0 \_ F 2 J M N 8 N E E P V L N T A E E I H H A I E H H I I G A T F L R N H P T F A D E T I Y F F G P M G  
U n i R e f 9 0 \_ R 5 L J C 5 N E E P V M V T A G I H S I E H H L L G A T F L R N H P K W K D N V I Y F F G P M G  
U n i R e f 9 0 \_ R 6 R 1 H 2 N R E V M D T P G L H H T L I E H H L L G A T F L R N H P Q W K D R V I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 4 7 D 6 3 E 5 N E E P A V E V A A M H S L I E H H I I A T F L R N D P D W K D E I I Y W G P M G  
U n i R e f 9 0 \_ C 6 L E P 1 N E E V M N T A E E V H H T L I E H H L L G A T Y L R N S D S E F G P K V I Y F F G P M G  
U n i R e f 9 0 \_ S 2 Z W 2 6 N R E V M D T A A V H H A I E H H L L G A T F L R N D P A W S S R V I Y F F G P M G  
U n i R e f 9 0 \_ F 4 K L 6 1 N R E V L D L S A L H H T L I E H H L L V A T Y L R N D P E W G S R I I Y W G P M G  
U n i R e f 9 0 \_ C 6 B U 8 6 N N E A L D S A A A H H T L I E H H I G A T F L R N H S E Y G D K I I Y F F G P M G  
U n i R e f 9 0 \_ U P I 0 0 0 4 6 F 7 0 A 3 N Q A E I P T A A I H H T L I E H H I L L A D L L R D R L D G I I D V S P F G  
U n i R e f 9 0 \_ Q 6 A Q W 6 N E P A L D G A S H H T L I E H H I G A T F L R N H K T W A D R I I Y F F G P M G  
U n i R e f 9 0 \_ F 5 Y F P 3 N Q E V I D M P A L H H T L I E H H L G A T F L R S H K E W A K R V I Y F F G P M G



		130	140	150																																	
UniRef90_D9RYS3	K	E	C	G	N	Y	K	D	H	S	F	T	A	K	E	Y	A	R	L	A	L	E	N														
UniRef90_R6G2E9	K	D	C	G	N	Y	L	D	M	N	L	S	M	A	N	Y	L	A	N	R	F	L	T	E	V	L	T	D	I	K	E						
UniRef90_D7BLS9	I	V	Q	C	G	W	A	N	H	S	L	E	A	A	Q	T	A	V	R	A	M	L	A	E	R	T	T	W	E	N	V	N	A				
UniRef90_UPI00047C7DB7	V	L	Q	C	G	W	A	N	H	S	L	E	A	A	Q	T	A	V	R	A	M	L	A	E	R	T	T	W	E	N	V	N	A				
UniRef90_L8XXP8	V	A	C	G	N	Y	K	D	H	S	L	H	S	A	K	E	W	A	K	I	L	K	Q	G	I	S	E										
UniRef90_R7A8T7	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	N	W	L	A	D	R	F	L	R	E	V	L	D	G	I								
UniRef90_R6GXR5	R	D	C	G	N	Y	L	D	Q	N	L	P	M	A	K	Y	L	A	K	K	Y	L	N	E	A	L	N	N									
UniRef90_F0Z4F8	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	V	A	K	K	Y	L	Q	N	V	L	I	D	I								
UniRef90_D3ILE9	K	D	C	G	N	Y	L	H	D	L	H	P	A	A	R	C	E	A	R	K	Y	V	D	E	V	L	N	N	M	K	E						
UniRef90_R5AY78	R	D	C	G	N	Y	S	Y	M	D	L	H	E	G	A	R	R	E	A	R	R	Y	L	D	E	V	L										
UniRef90_UPI000255646A	Y	Q	C	G	S	A	D	Y	H	S	I	D	E	A	H	L	I	A	K	N	V	I	K	Q	G	I	V	E	N	K	N						
UniRef90_R5JK98	R	E	C	G	N	Y	Q	D	M	N	L	A	M	A	N	Y	Y	A	E	K	F	L	T	E	V	L	Y	N	I	T	E						
UniRef90_I0R7R3	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	L	A	K	R	Y	L	N	D	V	L	V	N	I	T	N						
UniRef90_R5QFC8	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	N	F	L	A	R	K	F	L	E	E	V	L	T	D	I	R	E						
UniRef90_L0A238	L	E	C	G	N	Y	R	D	H	D	L	A	Q	A	R	L	H	A	R	E	A	L	E	A	G	L											
UniRef90_H1HU78	R	D	C	G	N	Y	L	D	Q	N	L	P	M	A	K	W	E	A	R	R	Y	L	E	R	A	L	N										
UniRef90_R6JUB9	R	D	C	G	N	Y	C	L	D	M	N	L	P	M	A	K	Y	L	A	G	K	Y	L	T	E	V	L	E	N	I							
UniRef90_C5WDI8	Y	Q	C	G	S	Y	K	M	H	S	L	E	E	A	H	H	I	A	R	H	V	L	E	K													
UniRef90_R6RZY0	R	D	C	G	N	Y	L	D	Q	N	L	G	M	A	K	Y	L	S	K	K	Y	L	A	E	V	L	N	D	I	T							
UniRef90_E9SK35	K	D	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	V	A	G	K	Y	L	K	E	V	L	E	G	I	D	E						
UniRef90_R6YLM9	E	A	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	A	A	K	R	Y	L	T	E	A	L	G	N	I	T							
UniRef90_UPI0003B5D55A	V	L	Q	C	G	W	A	N	H	S	L	E	G	A	Q	A	A	R	E	F	L	G	K	R	D	E	W	A	R	V	T	A					
UniRef90_R5NSS3	R	D	C	G	N	Y	L	D	M	N	L	P	M	A	K	Y	V	A	K	R	F	L	D	N	T	L	R	N	I	D	E						
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UniRef90_R6A2L5	E	E	C	G	N	Y	L	D	Q	N	L	P	M	A	N	W	L	A	R	R	Y	L	D	R	D	L	A	D	I	D	E						
UniRef90_UPI000468B2A4	K	D	C	G	N	Y	L	L	N	D	L	P	M	A	K	F	E	A	A	K	Y	L	H	E	V	L	E	Q	I	T							
UniRef90_R6RGY7	R	D	C	G	N	Y	L	D	M	N	L	P	M	A	R	Y	L	A	R	K	F	C	D	E	V	L	E	D	I	Q	E						
UniRef90_R5CNL9	R	D	C	G	N	Y	L	D	Q	N	L	G	M	A	R	W	L	A	A	R	Y	L	N	N	T	L	Y	D	I	T	K						
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UniRef90_B9L8B0	Y	Q	C	G	S	Y	M	H	S	L	D	G	A	K	K	V	A	E	H	L	L	N															
UniRef90_R9R9Z5	V	E	C	G	N	Y	L	D	Q	N	L	P	M	A	R	Y	E	A	K	K	Y	L	E	E	T	L	N	N	I	K	E						
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UniRef90_C9LH93	K	D	C	G	N	Y	Q	L	H	D	L	D	G	A	R	A	E	A	R	K	Y	V	E	E	T	L	E	E	I	T							
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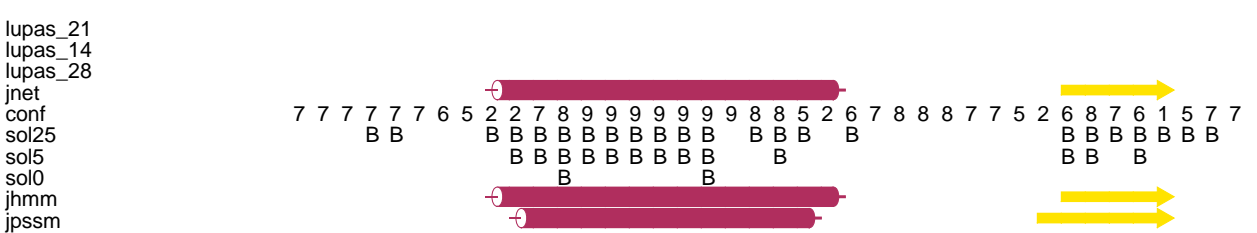


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UniRef90\_R7K8Y2 K E C G N Y L E H D L V I G A K R E I T D Y L A  
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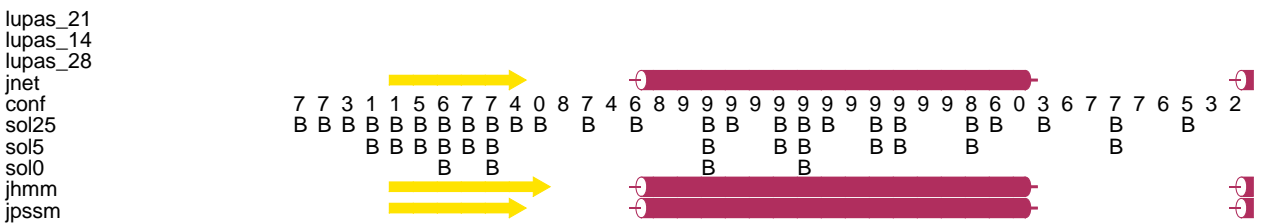




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