

QUERY	1	10	20	30	40																																						
UniRef90_P02104	V	N	F	T	A	E	E	E	K	T	A	V	T	A	L	W	G	K	V	N	V	E	E	V	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_UPI000194E527	V	H	F	W	S	A	E	E	E	K	Q	L	I	A	S	V	W	G	R	V	N	S	V	E	E	Q	G	G	E	A	L	G	R	L	L	I	V	Y	P	W	T	Q	R
UniRef90_UPI000333B632	V	H	F	T	A	E	E	E	K	A	A	I	T	S	G	V	W	G	K	V	N	V	E	E	Q	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R	
UniRef90_G5BS33	V	H	L	S	N	E	E	E	K	A	A	V	T	S	L	W	G	K	V	N	V	E	E	T	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_Q62669	V	H	L	T	D	A	E	E	K	A	T	V	N	S	L	W	G	K	V	N	V	E	E	I	G	G	E	A	L	G	R	L	L	I	V	Y	P	W	T	Q	R		
UniRef90_C5HYH6	V	H	L	T	A	G	E	E	K	S	L	V	A	S	T	W	S	K	V	N	V	D	E	V	G	G	E	V	L	A	S	R	L	L	V	V	Y	P	W	T	Q	R	
UniRef90_M3YFH4	V	H	L	S	A	E	E	E	K	A	A	V	S	S	L	Q	G	K	V	K	V	D	V	V	G	G	E	T	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_P86391	V	H	W	T	A	E	E	E	K	Q	L	I	T	Y	L	W	G	K	V	D	V	A	T	I	G	G	E	S	L	A	G	M	F	V	M	Y	P	W	T	Q	R		
UniRef90_Q63067	V	H	F	T	A	E	E	E	K	A	T	S	L	S	I	W	E	K	V	N	D	L	E	K	L	G	G	E	T	L	G	R	L	L	I	V	Y	P	W	T	Q	R	
UniRef90_P02095	V	H	L	T	A	A	E	E	K	S	A	I	L	D	L	W	G	K	V	N	V	G	E	I	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_P13274	V	H	W	T	A	D	E	E	K	Q	L	I	T	S	L	W	G	K	V	N	V	E	E	Q	G	G	E	A	L	G	R	L	L	I	V	Y	P	W	T	Q	R		
UniRef90_P82316	V	H	F	T	D	A	E	E	K	R	D	A	I	T	A	A	I	W	G	K	V	H	I	D	E	I	G	P	Q	S	L	A	R	V	L	I	V	Y	P	W	T	Q	R
UniRef90_P02086	V	H	L	T	D	A	E	E	K	A	A	V	T	G	L	W	G	K	V	K	V	D	E	Y	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_Q45X16	V	R	L	T	D	S	E	E	K	A	E	V	S	L	W	S	K	V	D	E	K	I	T	I	G	G	A	L	G	R	L	L	V	I	Y	P	W	T	R	R			
UniRef90_F7GH03	V	N	W	T	A	E	E	K	H	A	I	T	S	I	W	A	K	V	D	I	E	K	L	G	A	H	T	L	G	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_P14526	V	H	L	A	D	D	E	K	A	A	V	S	A	L	W	H	K	V	H	V	E	E	F	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	S	R			
UniRef90_P41332	V	H	W	S	A	E	E	K	Q	L	I	T	G	L	W	G	K	V	D	V	A	S	V	G	G	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R				
UniRef90_W5MMA8	V	H	W	T	A	E	E	K	Q	A	I	A	S	V	W	K	I	N	D	S	L	E	S	V	G	S	Q	A	L	G	R	L	L	I	V	Y	P	W	T	Q	R		
UniRef90_P0C0U8	V	H	W	T	A	E	E	K	S	A	I	T	S	L	W	N	K	V	D	V	P	A	V	G	S	E	A	L	S	R	L	L	I	V	Y	P	W	T	Q	R			
UniRef90_P24292	V	H	M	T	D	A	E	E	K	K	L	V	T	T	M	W	G	K	V	D	D	V	A	A	G	A	E	L	G	R	V	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_P02007	M	A	L	T	Q	A	E	E	K	A	A	V	T	T	I	W	A	K	V	A	I	E	S	I	G	L	E	S	L	E	R	L	F	A	S	Y	P	Q	T	K	T		
UniRef90_E3TCM4	V	S	W	S	Q	S	E	R	S	A	I	V	D	L	W	D	K	I	N	V	D	E	I	G	P	Q	A	L	A	R	V	L	I	V	Y	P	W	T	Q	R			
UniRef90_UPI00046B3AEC	V	Q	F	T	A	E	K	A	A	V	A	S	L	W	G	K	V	N	V	E	E	I	G	G	E	L	L	G	R	L	L	V	V	Y	P	W	T	X	R				
UniRef90_I3MW48										K	P	A	I	D	V	L	W	G	K	M	N	D	E	V	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_F7F0N7	M	S	L	T	K	A	D	K	T	A	V	I	S	L	W	G	K	A	A	D	A	I	G	A	E	S	L	E	R	L	F	A	S	Y	P	Q	T	K	T				
UniRef90_F6TTF3				F	T	A	E	D	K	A	A	I	T	S	L	W	A	K	V	N	V	E	D	A	G	G	E	T	L	G	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_P02142	V	E	W	T	D	A	E	K	S	T	I	S	A	V	W	G	K	V	N	I	D	E	I	G	P	L	J	A	L	A	R	V	L	I	V	Y	P	W	T	Q	R		
UniRef90_P07414	V	L	S	D	E	D	K	T	N	V	K	T	F	W	G	K	I	H	T	G	E	Y	G	G	E	A	L	E	R	M	F	L	S	F	P	T	T	K	T				
UniRef90_Q5BLF6	V	V	W	T	A	E	E	R	A	A	I	Q	N	I	F	A	K	L	D	F	E	S	V	G	L	T	E	T	L	T	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_F6YMJ4	M	S	L	T	K	S	E	R	K	A	S	I	A	N	I	W	S	K	I	A	A	E	A	L	G	T	E	T	L	E	R	L	F	L	T	F	P	Q	T	K	T		
UniRef90_W5QCX0				T	V	E	E	K	D	T	V	I	A	F	W	S	W	V	R	V	D	E	V	G	A	E	T	L	G	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_P83131	M	V	L	T	A	G	D	K	A	N	V	K	T	V	W	S	K	V	H	L	E	E	Y	G	S	E	T	L	E	R	L	F	V	V	Y	P	S	T	K	T			
UniRef90_Q6DGK4	V	Q	W	S	D	S	E	R	K	T	I	A	S	V	W	S	K	I	N	V	D	E	I	G	P	Q	T	L	A	R	V	L	V	V	Y	P	W	T	Q	R			
UniRef90_UPI000332FBA8	M	S	L	T	K	S	E	R	A	S	I	M	S	I	W	D	K	M	R	A	E	A	I	G	T	E	T	L	E	R	L	F	V	T	Y	P	Q	A	K	T			
UniRef90_P02076				L	T	A	E	E	K	A	A	V	T	G	F	W	G	K	V	K	V	D	E	V	G	A	E	L	G	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_I1Y926	M	V	L	T	A	E	D	K	K	L	I	Q	T	T	W	G	K	L	G	G	E	E	I	G	A	E	S	L	W	R	M	F	H	S	Y	P	T	K	T				
UniRef90_Q6S9E2	V	H	W	T	D	A	E	R	H	I	A	D	L	W	G	K	I	N	H	D	E	I	G	G	Q	A	L	A	R	L	L	I	V	Y	P	W	T	Q	R				
UniRef90_G3RZQ0	V	H	L	T	P	E	E	K	T	A	V	N	A	L	W	G	K	V	N	V	D	A	V	G	G	E	A	L	G	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_P02136	V	H	W	T	A	E	E	K	A	V	I	N	A	L	W	G	K	V	D	V	E	Q	D	G	H	E	A	L	T	R	L	F	L	V	Y	P	W	T	Q	R			
UniRef90_J9JHW7	M	S	L	T	K	A	E	R	T	I	I	L	S	M	W	G	K	T	S	A	D	A	I	G	T	E	A	L	E	R	L	F	A	S	F	P	Q	T	K	T			
UniRef90_Q7ZT86				L	T	A	E	E	Q	S	L	I	Q	K	V	W	E	K	T	H	R	D	E	I	G	G	E	S	L	E	R	L	F	T	S	Y	P	S	T	K	T		
UniRef90_G1LJX4	M	S	L	T	K	A	E	R	T	I	I	L	S	M	W	E	K	T	S	A	D	A	I	G	T	Q	A	L	E	R	L	F	T	S	Y	P	Q	T	K	T			
UniRef90_Q10733				H	W	T	A	E	E	R	H	Y	I	T	S	M	W	D	K	I	N	V	A	E	I	G	G	E	S	L	A	R	M	L	I	V	Y	P	W	T	Q	K	
UniRef90_I1VYK2				L	T	D	G	D	K	K	L	V	T	Q	I	W	E	K	A	T	P	E	D	F	G	G	E	A	L	E	R	L	F	I	V	Y	P	Q	T	K	T		
UniRef90_UPI0003BCF535	V	E	W	T	D	A	E	R	S	A	I	L	G	L	W	G	K	I	N	I	D	E	I	G	P	Q	A	L	S	R	L	L	I	V	Y	P	W	G	Q	R			
UniRef90_Q90486	V	E	W	T	D	A	E	R	T	A	I	L	G	L	W	G	K	I	N	I	D	E	I	G	P	Q	A	L	S	R	L	L	I	V	Y	P	W	T	Q	R			
UniRef90_F6YMK0																																											
UniRef90_Q8AYQ6	V	T	W	T	D	F	E	R	A	T	I	Q	D	I	F	S	K	I	D	Y	D	I	V	G	P	D	A	L	E	K	T	F	L	S	F	P	T	K	T				
UniRef90_UPI0003C4572F	M	V	L	S	P	A	D	K	T	N	I	K	A	A	W	D	K	V	H	A	G	D	Y	G	A	E	A	L	E	R	M	F	L	S	F	P	T	T	K	T			
UniRef90_P0C239	V	Q	W	S	D	S	E	R	T	I	I	N	G	L	I	F	S	Q	L	D	Y	D	D	L	G	P	K	A	F	S	R	L	L	I	V	Y	P	W	T	Q	R		
UniRef90_U5KNU7	V	H	L	S	D	S	E	R	K	A	V	T	A	L	W	G	K	V	N	V	D	E	V	G	G	E	T	L	G	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_W5LAM7	V	E	W	T	D	F	E	R	A	T	I	Q	D	I	F	S	K	M	D	Y	E	S	V	G	H	N	A	L	A	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_P83272	V	K	W	S	D	K	E	R	A	V	I	S	I	F	A	G	L	D	Y	E	D	I	G	P	K	A	L	S	R	L	L	I	V	Y	P	W	T	Q	R				
UniRef90_B5FX70	V	N	W	T	A	E	E	K	Q	L	V	T	T	L	W	G	R	V	N	V	D	E	C	G	A	E	A	L	A	R	L	L	V	V	Y	P	W	T	Q	R			
UniRef90_P07433	M	G	L	T	A	H	E	K	Q	L	I	T	G	S	W	G	K	I	N	A	K	A	I	G	K	E	A	L	G	R	L</												

[illegible]

QUERY	90	100	110	120
UniRef90_P02104	L K S A L P	S E E L H C D K L H V D P E N F R L L G N V L V C V L A H H F G K		
UniRef90_UPI000194E527	L K G T Y A K L	S E E L H C D K L H V D P E N F R L L G N D I L V I V L A S H F T K		
UniRef90_UPI000333B632	L K G T F A Q L	S E E L H C C D E L H V D P E N F R L L G N V L I V L A Q L F G K		
UniRef90_G5BS33	L K G T F A K L	S E E L H C C D K L H V D P E N F R L L G D V I V I V L A Q H H G H		
UniRef90_Q62669	L K G T F A G S L	S E E L H C C D K L H V D P E N F R L L G N M I V I M M G H H L G K		
UniRef90_C5HYH6	L K G A F A Q L	S E E L H C C D K L H V D P E N F R L L G N V L M C V M A R H L R A		
UniRef90_M3YFH4	L K G A F A K L	S E E L H C C D K L H V D P E N F R L L G N V L M V C V A R H L F G K		
UniRef90_P86391	L K D T F A K L	S E E L H C C D K L H V D P E N F R L L G N V L I V L A G H Y F G K		
UniRef90_Q63067	L K E T F A A H L	S E E L H C C D K L H V D P E N F R L L G N V L I V L A F S Y F G K		
UniRef90_P02095	L K G T F A K L	S E E L H C C D K L H V D P E N F R L L G N M I V I A L A S H F P S		
UniRef90_P13274	L K Q T F A T L	S K L H C C E K L H V D P E N F R L L G N V L I V L A S H F T K		
UniRef90_P82316	L V K A T Y A S N L	S Q L H C C E K L N V D P D N F R A L G D C I T I V V A S K F G N		
UniRef90_P02086	L K G T F A Q L	S E E L H C C D K L H V D P E N F R L L G N V L V V V L A R H F H E		
UniRef90_Q45X16	L R G T F A Q L	S E E L H C C D E L H V D P E N F R L L G N I L V V V L A R H Y G K		
UniRef90_F7GH03	L V K T I F A N L	S H L H C S E K L H V D P Q N F K L L G N D N L I E L A T A L G K		
UniRef90_P14526	L K G T Y A H L	S E E L H C C D K L H V D P E N F R L L G N V L I V L A R H F G K		
UniRef90_P41332	L K E T F A K L	S E E L H C C E K L H V D P E N F R L L G N I L I V L A G H H G K		
UniRef90_W5MMA8	L K A T F S K L	S E E L H C S E K L H V D P G N F R M L G E T L I I V L A A E L G A		
UniRef90_P0C0U8	L V K E T F A K L	S E E L H C C D K L H V D P I N F K L L G Q I L I T V L A A H F G K		
UniRef90_P24292	L K H F Y A A L	S E E L H C C D K L H V D P E N F R L L G N V L V C V M S R H F G A		
UniRef90_P02007	L R G A L A K L	S E E L H C A Y L L V D P V N F K L L S H C I L C S V A A R Y P S		
UniRef90_E3TCM4	L I K E T Y S K L	S Q L H C C E K L R V D P D N F R L L F A D C L T I V L A N K F G A		
UniRef90_UPI00046B3AEC	L K D T F A K L	S E E L H C C N K L H V D S E N F R L L G N V L I V L A T H F S K		
UniRef90_I3MW48	H K G A F A S L	S E E L H C C D K L H V D P E N F R L L G N M I V I V M A H H L G K		
UniRef90_F7F0N7	M G G A L S K L	S E E L H C A Y L L R V D P V N F K L L S H C I L V S L A S R F P A		
UniRef90_F6TTF3	L K G T F G Q L	S E E L H C C D K L H V D P E N F R L L G N V L V T V L A I L Y G K		
UniRef90_P02142	L I L A T Y K S L	S E T H A N K L F V D P D N F R V L A D V L T I V I A A K F G A		
UniRef90_P07414	L P G T L S E L	S D L H A H R L R V D P V N F K L L S H C I L V L T L S S H L R E		
UniRef90_Q5BLF6	L I K S T Y A S L	S E E L H A S E K L Q V D P G N F R L L A D C L T V V I A T R M R S		
UniRef90_F6YMX4	V G S A L S K L	S E E L H A Y N L R V D P V N F K F L N H C M L V T L A V H F P N		
UniRef90_W5QXC0	L K R F F A A L	S E E L H C E K L H V N P E N F K L L G N I L V I T L A R H F G K		
UniRef90_P83131	L P G A L S K L	S D L H A Q N L R V D P V N F K L L N L C F V V V S G T H H P T		
UniRef90_Q6DGGK4	L K T T Y A Q L	S Q L H C A Y L N V D P D N F K L L A D C L S I V I A T N F P A		
UniRef90_UPI000332FBA8	M Q G A L T K L	S E E L H C A Y L L R V D P V N F K L L S H C I L V L T L A A H F P A		
UniRef90_P02076	L K G T F A Q L	S E E L H C C D K L H V B P Z B F R X X X X X X X X X X X H G S		
UniRef90_I1Y926	L I A G A L S K L	S D L H A Q K L R V D P V N F K L L G Q C F L V V V A A H F P A		
UniRef90_Q6S9E2	L I K G I Y T K L	S T L H S E K L H V D P S N F T L L G D T F T V T L A A N F G P		
UniRef90_G3RZQ0	L K G T F S Q L	S E L H C D K L H V D P E N F R L L G N V L V C V L A R N F G K		
UniRef90_P02136	V K G T L H D L	S E E H A N E L H V D P E N F R R L G E V L I V L A G A K L G K		
UniRef90_J9JHW7	V I A G A L S R L	S E E L H A Y L R V D P V N F K L L S H C I L V T L A S H F P A		
UniRef90_Q7ZT86	L S Q A L S E L	S S E L H A Y N L R V D P V N F K L L S Q C I L Q V V L A L H L G K		
UniRef90_G1LX44	L I A G A L A K L	S E E L H A Y I L R V D P V N F K L L I Q C F Q V V L A S H L Q G		
UniRef90_Q10733	L I K E T F A D L	S K L H C E T L H V D P E N F K L L G S I L I V I V L A M H F G K		
UniRef90_I1VYK2	L I S Q A L S E L	S N L H A Y N L R V D P V N F K L L S Q C F Q V V L A A H L G K		
UniRef90_UPI0003BCF535	L K Q T Y A N L	S V M H S E K L H V D P D N F R V L A E C I L C V A A K F G P S		
UniRef90_Q90486	V K N T Y A A L	S V M H S E K L H V D P D N F R L L A D C I L T V C A A M K F G Q		
UniRef90_F6YMK0	L I A T A L S A L	S D L H A H N L K V D P V N F K L L C H N V L V T L A G H L G K		
UniRef90_Q8AYQ6	L K A A Y A D L	S V L H S E K L Q V D P D N F K L L A D C I L T I V V A S H L G K		
UniRef90_UPI0003C4572F	L P G A L S A L	S D L H A Y K L R V D P V N F K L L A D C H C L V T L A R H Y P G		
UniRef90_P0C239	L M G V Y A E L	S S L H S E K L H V D P D N F K L L S D C I L T I V V A A K L G N		
UniRef90_U5KNU7	L M G T F A K L	S E L H C D K L H V D P E N F K L L G N V L V V V L A S H F G G		
UniRef90_W5LAM7	L I K E T Y A E L	S V L H S E K L H V D P D N F R T L I C I C I V T N H S F F V T		
UniRef90_P83272	L I K D A Y T E L	S I L H S E T L H V D P D N F K L L A D C L T I V V A A K M G C		

QUERY	130	140
UniRef90_P02104	E F T P A V Q Q A A Y Q K V V A G V A N A L A H K Y H	
UniRef90_UPI000194E527	E F T A E M Q A A T W Q K L V A G V A T A L A S R K Y H	
UniRef90_UPI000333B632	E L T T P Q V Q A A F Q K M M T G V A N A L V S K Y H	
UniRef90_G5BS33	D L T P T V Q A A F Q K V V A G V A T A L A H K Y H	
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UniRef90_P02095	E F T P C Q Q A A F Q K V T S A V A T A L A L G Y H	
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UniRef90_P20086	E F T P D V Q A A F Q K V V T G V A N A L A H K Y H	
UniRef90_Q45X16	E F T L E V Q A A C Q K F V A G M A N A L A H K Y H	
UniRef90_F7GH03	D F T P E A Q A A W Q K L V G V A S A L A S R Q Y H	
UniRef90_P14526	E F T P Q L Q A A Y Q K V T T G V S T A L A H K Y H	
UniRef90_P41332	E F T P S T H A A F Q K L V R A V A S H S L A R V Y H	
UniRef90_W5MMA8	E F T P E L Q A A W Q K L S V V A S A L A S R Q Y H	
UniRef90_P0C0U8	E F T P H V Q A S Y Q K L V S V V A S A L A H R Y H	
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UniRef90_I3MW48	D F T P E A Q A A F Q K V V A G V A N A L A S H K Y	
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UniRef90_P02142	S F T P E I Q A T W Q K F M K S V V V A A M G S R Y R	
UniRef90_P07414	D F T P S I H A S L D K F L S V V S T V L T S R Y R	
UniRef90_Q5BLF6	E F T P D I Q A A W D K F L S S V V S T A L T R R K Y R	
UniRef90_F6YMJ4	D L T A E T H A A W D K F L A L V T A V L T T E K Y R	
UniRef90_W5QCX0	E F T P E L Q A A C Q K V V A L V V N A L T D R Y R	
UniRef90_P83131	I L T P E V H V S L D K F L S A V A T A L T S R Y R	
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UniRef90_Q7ZT86	E Y T P E V H A A F D K F L S A V V A A V L T S E K Y R	
UniRef90_G1LJX4	E F T V E M Q A A W D K F L T G V A V V L T T E K Y R	
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UniRef90_P83272	A F T P D T Q L A F Q K F L A V V V S A L G K Q Y	
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UniRef90_P07433	E Y T P E L H A A Y E H L F D A I A D A L A G K Y H	
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UniRef90_Q8UW95	D F T P E A H L A M D K F L A R L A L A L S D K Y R	
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UniRef90_P18971	E F T P S V H A S L D K F L A S V S T V L T S K Y R	
UniRef90_Q9PVL9	E F T P E A H A A F D K F L A A V S T V L T S K Y R	
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UniRef90_Q6Y239	V F N A N V Q E A W Q K F L A V V V N A L G R Q Y H	
UniRef90_P84611	A F T V D T Q V A V Q K F L S V V V S A L G R Q Y H	
UniRef90_Q7LZC1	E F T A D V H E A W Y K F L A A V T S A L S R Q Y H	
UniRef90_P10059	A L T P E V H A S L D K F L C A V G L V L T A K Y H	
UniRef90_C1BJP8	A F T A N V Q A H W Q K F L R V V V S A L G R Q Y H	
UniRef90_E3TGA8	S F T A E V Q A A L Q K F L A V V V S A L G K Y R	
UniRef90_P06638	E F N A D A Q A A W D K F L A V V S A V L V S K Y R	
UniRef90_UPI000328F10D	D F T P A V H A S M D K F M A G V S T V L V S K Y R	
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UniRef90_Q4S4F1	D F T P E V H V S F D K F L A A V A L A L S E K Y R	

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UniRef90_P02000	V	L	T	S	E	E	D	K	S	H	V	K	A	I	W	G	K	V	H	L	E	E	Y	G	A	E	A	L	E	R	M	F	C	A	Y	P	Q	T	K	I	
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UniRef90_Q6T497	S	L	T	K	R	D	K	A	T	V	K	A	F	W	D	K	V	K	V	E	D	I	G	V	Q	A	L	S	R	L	L	V	V	Y	P	W	T	Q	R		
UniRef90_UPI0003ABC90C	V	K	W	T	E	E	R	S	R	I	V	R	G	V	W	E	K	I	V	D	I	D	E	I	G	T	E	L	W	A	R	A	L	I	V	S	P	W	T	Q	R
UniRef90_M3ZD81	V	D	W	T	D	P	E	R	S	A	I	V	G	L	W	G	K	I	V	D	I	D	E	I	G	T	E	L	W	A	R	A	L	I	V	S	P	W	T	Q	R
UniRef90_P02141	V	D	W	T	D	P	E	R	S	A	I	V	G	L	W	G	K	I	V	D	I	D	E	I	G	T	E	L	W	A	R	A	L	I	V	S	P	W	T	Q	R
UniRef90_UPI0002B493D5	V	E	W	T	E	F	E	R	D	T	I	K	D	I	F	S	K	I	N	D	I	D	E	I	G	T	E	L	W	A	R	A	L	I	V	S	P	W	T	Q	R
UniRef90_C8YNNR8	V	E	W	T	E	F	E	R	D	T	I	K	D	I	F	S	K	I	N	D	I	D	E	I	G	T	E	L	W	A	R	A	L	I	V	S	P	W	T	Q	R
UniRef90_H3A6U9	V	H	F	T	A	D	E	K	A	A	I	T	S	I	W	D	K	V	N	D	L	E	K	V	G	G	E	A	L	I	R	L	F	I	V	Y	P	W	T	Q	R
UniRef90_UPI0004545EE9	M	V	L	T	E	A	E	T	A	I	V	R	A	L	W	R	K	M	N	V	G	V	G	V	T	T	E	A	L	E	R	T	F	A	A	F	P	S	T	K	T
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UniRef90_G8G8X6	M	G	L	T	N	D	K	D	K	A	V	K	A	L	W	A	K	I	S	A	D	T	I	G	S	N	A	L	T	R	M	F	T	A	F	P	Q	T	K	T	
UniRef90_UPI0003B3295E	S	L	T	A	K	D	K	D	T	V	K	A	F	W	G	K	I	K	A	G	A	I	G	A	D	A															

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UniRef90_UPI0004445F21	Y F S H W S D L S P E	S A Q V K K A H G A T V M G A I	L D G D A V G N K M D	D D
UniRef90_UPI00022B1E10	Y F G S F G D L F T I T A I L K	N D K V A A H G A T V I M G A I	L D G D A V G N K M D	D D
UniRef90_Q7ZY24	Y F S H W A D L S P	N S P Q V V K K H G T T V I N G V	L T A V V G L M D	D D
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UniRef90_Q6T497	Y F A H W K D L S P	G S E P V V R K H G K K T I M T G V	L G S D A V S K I	D D
UniRef90_UPI0003ABC90C	F F E S F G D L S S T P D A V M G N P K V	K A H G K K V L G A F	L S D G L V N H L	D D
UniRef90_M3ZD81	Y F G S F G D I F T T T A I V N N P K	V A A H G K V V L S A	L D T A V V K N I	D D
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UniRef90_UPI0002B493D5	S S P F G N L S S T P T A V L G N P	K V A A H G K K V L T S F	L G E A V V K N L	D D
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UniRef90_H3A6U9	Y F S T F G S L S S S T V I A R N F M V	Q Q H A A K V I N A L	L T E A I V R N I	D D
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UniRef90_UPI000333DF0A	Y F H F	N L R P G S A Q V V K A H G K K V	A A A L T Q A V A H L	D D
UniRef90_G8G8X6	Y F S H W T	E L T P G S Q V V K N H G K K V	M N G I L G L A V A K I	D D
UniRef90_UPI0003B3295E	Y F S H W K D M S P	G S G P V V K K H G A T V M A G V	L D A D A V A K I	D D
UniRef90_C1BW51	Y F S H W A	D L K P G S A Q V I K H G D T V	M N K I L D E A V H L	D D
UniRef90_H9GGM8	Y F H F	D L S P G S K D I Q V H G Q K V	I A R A L D E M A L H	D D
UniRef90_H2TTY2	Y F S H W K	E L T P N S N D V V K I H G A R I	M T G V T T A V I G K M	D D
UniRef90_UPI00032A1B52	Y F S H W K D L S P	G S D P V V R K H G A T V M A A V	L T D A V V S K I	D D
UniRef90_P01949	Y F H F	D L N P G S A Q V V K G H G K K V	A D A L T T A V N N L	D D
UniRef90_G3WER9	Y F H F	D L S G G S R Q V V Q A H G K K V	A D A L T L A V S H L	D D
UniRef90_I3IZ43	Y F S H W G	D L T P S P Q V V K K H G A V I M A A V	L G K A V V K N I	D D
UniRef90_P14521	Y F A S F G N L S S A A A I M G N P	K V A A H G K V V V G A L	D K A V V K N I	D D
UniRef90_Q6Y257	Y F S H W S	D L G P N S S Q V V K K H G A S I	M A A I L G D A V V G S K I	D D
UniRef90_J9P710	Y F H F	E L R A G S A H L R A H G A K V I M A A I	L G D A V V S K I	D D
UniRef90_Q6F3D1	Y F P D F G D M S T C D A I C H N A R V	L A H G A K V M R S V C A E A T K	H L D D N	
UniRef90_P80946	H F A N F G N L S T A A A I M N N D	K V A K H G T T V M G G L	D R A I Q N M	D D
UniRef90_UPI0004410052	Y F A H W A D L S P	G S A P V V K K H G K T I M G A V	L T A A V V S I E	D D
UniRef90_UPI000333E286	Y F P S F A	D I A P G S Q I Q A H G K K V	A N A L N K A V E N S I	D D
UniRef90_L5LSF0	Y F H F	D L H P G S A H L R S H G S K V	V S A V V G D A V V S K I	D D
UniRef90_Q4RHD1	Y F S H W K D Q S P	N S A S A K K G I T I M N A V	L G D A V V S K I	D D
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UniRef90_P10062	Y F P H F	D L H H G S E Q I R N H G R K V V N A L	L G E A V V K N M	D D
UniRef90_P07428	Y F P D F	D F S E H S K H I L A H G K K V S D A L	N E A C N H L	D D
UniRef90_P80270	Y F T H W T D L S P	S S T S V K N H G K N I M V G V S	L A V V S K M	D D
UniRef90_UPI000441B56A	Y F H F	D F S L G S S D L K T H G R K V I D A L	T E A V V N N L	D D
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UniRef90_P56250	Y F S E W	G Q D L G P Q T P Q V R N H G A V I M A A V	L G K A V V S I	D D
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UniRef90_P02006	Y F H F			

	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120											
UniRef90_P01979	M	D	S	A	L	S	A	L	S	D	L	H	A	F	K	L	R	V	D	P	V	N	F	K	L	L	A	H	C	I	L	V	L	A	R	H	Y	P	G			
UniRef90_UPI0004445F21	L	Q	G	A	L	S	A	L	S	E	L	H	A	F	K	L	R	V	D	P	A	N	F	K	L	L	A	H	C	I	L	V	L	A	R	H	Y	P	A			
UniRef90_UPI00022B1E10	M	K	R	T	Y	A	D	L	S	E	Q	L	H	A	F	K	L	R	V	D	P	A	N	F	K	L	L	A	D	C	I	T	I	T	L	A	C	K	L	K	S	D
UniRef90_Q7ZY24	L	K	G	G	L	L	T	L	S	E	L	H	A	F	M	L	R	V	D	P	A	N	F	K	L	L	A	N	C	H	L	V	L	S	L	A	M	M	F	P	D	
UniRef90_UPI0003AF73FB	L	S	G	G	L	L	E	L	S	E	L	H	A	F	K	L	R	V	D	P	A	N	F	K	L	L	A	Q	S	F	M	V	V	I	A	T	M	F	P	K		
UniRef90_P02000	L	A	G	A	L	C	R	L	S	D	L	H	A	F	N	L	R	V	D	P	V	N	F	K	F	L	A	S	Q	C	I	L	V	V	F	G	V	H	F	P	C	
UniRef90_Q8JH84	L	A	G	G	L	A	A	L	S	E	L	R	A	F	K	L	R	V	D	P	A	N	F	K	L	L	A	H	C	I	N	L	V	V	I	A	M	L	F	P	A	
UniRef90_Q6T497	L	K	G	G	L	L	P	L	S	E	L	H	A	F	T	L	R	V	D	P	A	N	F	K	L	L	A	H	C	I	L	V	V	F	A	N	M	F	P	L		
UniRef90_UPI0003ABC90C	L	K	G	T	F	A	Q	L	S	E	L	H	C	D	K	L	H	V	D	P	E	N	F	K	L	L	G	N	V	L	V	C	V	L	A	H	F	G	K			
UniRef90_M3ZD81	F	K	A	M	Y	A	S	L	S	R	Q	H	Y	E	K	L	K	V	D	P	D	N	F	R	L	L	A	E	D	C	I	T	I	T	L	A	C	K	L	R	A	
UniRef90_P02141	I	K	N	T	Y	T	A	L	S	V	M	H	S	E	K	L	H	V	D	P	E	N	F	R	L	L	G	D	I	L	V	V	V	L	A	A	K	L	G	P		
UniRef90_UPI00026493D5	I	K	N	T	F	S	Q	L	S	E	L	H	C	D	K	L	H	V	D	P	E	N	F	R	L	L	G	D	I	L	V	V	V	L	A	A	H	F	G	K		
UniRef90_C8YNNR8	I	K	E	S	Y	C	L	L	S	Q	L	H	S	D	Q	F	L	H	V	D	P	D	N	F	R	L	L	A	D	C	I	A	I	A	I	A	T	Q	W	G	S	
UniRef90_H3A6U9	L	K	A	S	F	S	D	L	S	K	L	H	S	F	Q	K	L	H	V	D	P	E	N	F	Q	L	L	G	K	T	L	I	I	T	L	S	E	K	L	G	S	
UniRef90_UPI0004545EE9	L	K	H	I	F	F	H	V	N	S	L	L	R	N	P	L	F	S	F	L	C	F	L	P	Q	L	L	G	N	M	L	V	I	V	L	S	S	H	L	G	K	
UniRef90_UPI000333DF0A	V	P	G	A	L	S	A	L	S	D	L	H	A	H	R	L	R	V	D	P	V	N	F	Q	L	L	A	H	C	I	L	V	L	T	L	A	R	H	Y	P	G	
UniRef90_G8GX6	L	V	C	G	L	L	E	L	S	E	Q	H	A	F	Q	L	R	V	D	P	S	N	F	K	L	L	A	H	C	I	L	V	E	L	A	T	T	F	P	G		

		130	140
UniRef90_P01979	E F T	P S A H A A M D K F L	S K V A T V L T S K Y R
UniRef90_UPI0004445F21	D F T	P E V H V S V D K F L	Q N L A L A L S S K Y R
UniRef90_UPI00022B1E10	A L S	P Q S Q A I W Q K F L	Y A V V D A M S S Q Y R
UniRef90_Q7YZZ4	D F T	P E V H V S V D K F L	A Q V S L A L S E K Y R
UniRef90_UPI0003AF73FB	D F T	P E T H V A F D K F L	A A V A L G L S E K Y R
UniRef90_P02000	S L T	P E V H A S L D K F L	C A V S A M L T S K Y R
UniRef90_Q8JH84	D F S	P E V H V S V D K F F	Q N L A L A L S D K Y R
UniRef90_Q6T497	D F T	P E V H V A M D K F L	A A V S L S L A E K Y R
UniRef90_UPI0003ABC90C	E F T	P Q V Q A A Y Q K V V	A G V A N A L A H K Y H
UniRef90_M3ZD81	E L N	P Q V Q A T W Q K F L	S A V V E A M S S Q Y
UniRef90_P02141	A F S	A D T Q E A F Q K F L	A V V V S A L G R Q Y H
UniRef90_UPI0002B493D5	D F T	P D I C Q A A W Q K L	V R V V A H A L A R K Y H
UniRef90_C8YNR8	A F T	P D I Q A A F Q K F L	S V V V F S L G S Q Y H
UniRef90_H3A6U9	E F S	P Q I Q A A W E K F M	A L V I D S L S R Q Y
UniRef90_UPI0004545EE9	E F T	V I E V Q A A W Q K L	V A V A N A L S L K Y H
UniRef90_UPI000333DF0A	D F S	P T M H A S L D K F L	S H V N S V L V S K Y R
UniRef90_G8G8X6	E F T	P E A H V S Y D K F L	S N V A L A L S E R Y R
UniRef90_UPI0003B3295E	D F T	P E V H V A M D K F L	S A V A L A L S E K Y R
UniRef90_C1BW51	D F T	P D I H L S V D K F L	Q L V A L A L A E K Y R
UniRef90_H9GGM8	E Y T	C L A H R A V D K F L	F A V A E I L G E K Y R
UniRef90_H2TTY2	D F T	P E V H M A M D K F L	A A V A R G L S E K Y R
UniRef90_UPI00032A1B52	D F T	P E V H V A I D K F L	T A V A L A L S E K Y R
UniRef90_P01949	D F T	P A V H A S L D K F L	A T V A T V L T S K Y R
UniRef90_G3WER9	N L N	P E V H A S L D K F L	S Y V S V V L T S E Y R
UniRef90_I3I243	D F T	P E V H V S V D K F F	N N L A W A L S E R Y R
UniRef90_P14521	G F N	A E T Q H A L A K F L	A E V V S A L G K Q Y H
UniRef90_Q6Y257	D F T	P E V H L S V D K F L	Q N L A L A L A E R Y R
UniRef90_J9P710	D L T	A D A H A A W D K F L	S L V S C V L T E K Y R
UniRef90_Q6F3D1	E F T	W H K Q L A F E K L	M R A V A H A L S H S Y H
UniRef90_P80946	E F T	A D V Q E A W Q K F L	M A V T S A L A R Q Y H
UniRef90_UPI0004410052	D F T	P E V H V S V D K F L	Q N L A W C L A E R Y R
UniRef90_UPI000333E286	D F T	P E V H A T M D K F M	S A V G T V L T S K Y R
UniRef90_L5LSF0	D F T	A D A H A A W D K F L	S V L A L A L S E K Y R
UniRef90_Q4RHD1	D F T	P E V H V A M D K F L	A S L A L A L S E K Y R
UniRef90_UPI00029D92B9	E F T	P E V Q A S W Q K M V	T A V A S A L S S R Y H
UniRef90_P0C0U6	P L K	P E V I L S L D K F L	C L V A K T L V S R Y R
UniRef90_Q9I977	V L N	A D A Q E A W Q K F L	A V V V A R L A
UniRef90_UPI00045DBDB7	D F T	A E A H A A W D K F L	S V V S S V L T E K Y R
UniRef90_P02131	D F T	L Q T H A A F Q K L	V R H V A A A L S A E Y H
UniRef90_P02010	E F G	P A V L A S V D K F L	C N V S E V L E S K Y R
UniRef90_E2JF88	D Y T	D E A H L S F D K F L	A N V A L A L S E K Y R
UniRef90_UPI00004F418F	L F I	L L E I Q A A F Q K V	V A G V A N A L A H R Y H
UniRef90_Q6GPP8	E F D	A T A Q A A W D K F L	A A I S T V L T S K H R
UniRef90_Q19LH3	D F T	P E A H V S F D K F L	M R L A F A L S E R Y R
UniRef90_C1BYK4	V F D	A Y T H E A F Y K F M	C V V V S A L S K Q Y H
UniRef90_L5KGV2	D F K	A D A H A A W D K F L	S L I S N V L T E K Y R
UniRef90_P10062	Q Y T	P D V H R A Y D K F L	S A V G D M L A E K Y R
UniRef90_P07428	Q F D	P A T H K A L D K F L	V S V S N V L T S K Y R
UniRef90_P80270	E F G	P E V H V S V D K F F	A N L A L A L S E R Y R
UniRef90_UPI000441B56A	P L K	P E V L L S V D K Y L	S D I G K V L T S R Y R
UniRef90_UPI0003503817	A L T	P E V H A S L D K F L	C A V G T V L T A K Y R
UniRef90_P56250	D F T	P E V H L S V D K F L	A C L A L A L S E K Y R
UniRef90_H0WAL2	D F S	P A M Q M S L D K F L	N L V T S A L A S K Y
UniRef90_P02006	E Y S	P Q V H V A Y D K F L	A A V S D V L A E K Y R
UniRef90_Q5EEZ5	D F T	P E A H L A V D K F L	N N L A L A L S E K
UniRef90_P84203	D F T	A E V H V A M D K F L	S A V C A A L S D K Y R
UniRef90_Q3KQ67	D F G	A S T Q T A F D K F L	T E I T A V L T S K Y R
UniRef90_B3VL86			
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UniRef90_C0H805	D F T	P E V H I A V D K F L	A A L S A A L A D K Y R
UniRef90_G8DP13	E F T	A E V H V S F D K F L	S C L A W A L S E K Y R
UniRef90_G3IA41	D F T	P A T D R A W K K M S	T N V
UniRef90_Q9CY10	D F T	P A V H A S L D K F L	A S V S T V L T S K Y R
UniRef90_UPI00032B0336	D F S	P A L Q L A V D K F L	D H V I L A L T S G
UniRef90_L8J2H0	D F S	P N M H A S L V K F L	N H V I S A L A
UniRef90_I1Y928	L L T	P E V H A S L D K F L	C A V G N V L T A K Y R
UniRef90_Q802A3	K F T	P E I Q A T F Q K F L	A V V V S A L G R Q Y H
UniRef90_UPI000394614B	D F S	P E V H A A F Q K F L	A A V V S S L A R R Q Y
UniRef90_Q7LZM6	D Y T	A S V C L A W D K F L	C Q V N E T L A E K Y R
UniRef90_M3ZBQ3			
UniRef90_P0C0U7	E Y N	A S T C L A W D K F L	E Q V A D V L C E K Y R
UniRef90_UPI0002740913		X X A H A A W D K F M	S V V S S V L T E K Y R
UniRef90_P02135	E F T	P E L Q C A L H S S F	C A V G E A L A K G Y H
UniRef90_P02017	D F	P E V H A S V D K F F	Q N L A L A L G Q K Y R
UniRef90_UPI000395C367			
UniRef90_UPI0003AF4141	D F T	P A V H A S L D K F L	A N V S T V L T S K Y R
UniRef90_H0WKY2	E F T	V E M H A A W D K F L	T G V A V V L T E K Y R
UniRef90_M4ASG7	E F T	P V A H A A M D K F L	S A F A A V L S E K Y R
UniRef90_H2LCY1	A F S	P E I Q A T F Q K F L	A V V V S A L G R Q Y H
UniRef90_B3EWR7	D F T	P E L H V S L D K F F	A A V G A A L S D K Y R
UniRef90_UPI0004421465	E Y N	A C T C L A W D K F F	E M V G E T M C E K Y R
UniRef90_B2LVG9	D F T	P E V H V A M D K F L	A A L A L A L A E K Y R
UniRef90_M3ZCQ3			
UniRef90_A3KP86	D F T	P V V H A A I D K F L	S A F S A V L A E K F R
UniRef90_P02202	D F G	A D S Q A A M K K A L	E L F R N D M A S K Y
UniRef90_P10785	D Y T	A Q K Q A A F E K F L	H H V E A A L A T G Y H
UniRef90_A1A4Q7	D F S	P N M H A S L V K F L	N H V I S A L A
UniRef90_UPI0001CE1AD0	D F T	A E A Q A A W D K F L	G R M S D V K T A K
UniRef90_M4AD09	V V T	P E V G A A W T K F L	A T V C S G L K A V Y
UniRef90_UPI00033444B3	E Y T	V E M Q A A W D K F L	T G V A V V L T E K Y R
UniRef90_UPI000273F3B6	D F T	P E V I Q A A Y Q K V	A A V A T A L A H K Y H
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UniRef90_A6MHQ6 MGLS DQEWQKVIITWGKVEPEAHGQEVILRLFFQKH PETQET
UniRef90_Q7LZM7 VLTEDDDKT HVKTLWLWG HVAEEIAADALTRMFLAHPT SSKT
UniRef90_C1BZA7 LLSKEEKEELAKQIWEKMIASEEIGSESLHRRMMTTF PETKT
UniRef90_H3B2L7 LTAEDKKNVIRGAIWKTVNAGEENGRTLVIRLFEKY PETKVI
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UniRef90_A4IGG7 LTTDVERGLIKDTWARVVAEDVGVITLLIRFFVNF PSACKQ
UniRef90_UPI000328AF02 MSLS SSKDKATVKEFFFGKMS SDDIGAEALSRMLVAVIY PQTKS
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UniRef90_K4FYM0 ELS SDAEKKVIQETWSRVNCE DVGVSILIRFFVQF PSACKQ
UniRef90_P02200 MEL S DQEWK HVLDTWTWKEVSEPHGHEVILRLLOEH PETQE
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UniRef90_L8HMOV9 MVL TAE DKANVKS AWDH IKGHEFGAEALC RMFDSE PVTKT
UniRef90_Q6F3D3 L S A QERRA QVAVWDLIAGHEAGAEALVRLFTTVF PTKT
UniRef90_G5DZ36 L S A QERRA QVAVWDLIAGHEAGAEALVRLFTTVF PTKT
UniRef90_UPI0000F06FEE L S A QERRA QVAVWDLIAGHEAGAEALVRLFTTVF PTKT
UniRef90_P83113 MGL S DGEWQLVLNAWGVKVEADGYGQAVALISLFTGHP ETQQ
UniRef90_S7Q7N2 MS L TKAERTLVVSMWGVNIAADVIGMEALERL FSSFP QTKT
UniRef90_S9YMZ9 L T AAD ENEIWEIC KINPEESGKT VVIRLFTTY PQTKV
UniRef90_Q575S4 VLS AADKTA LKHLTGSLNAEAWGAESLARMFATT PSTKT
UniRef90_P07408 T E S E R G V I K E T W A R V N C E D V G V S I L I R F F V N F P S A K Q
UniRef90_K7FZS0 L T D K E K V M I Q D S W A V V S C D D A G V A I L L V R L F V S F P S S K Q
UniRef90_Q6DEW1 S L T E E D V C V I Q D T W K P V Y A D N A G V A V L V R F F T N F P S A K Q
UniRef90_H2U139 M A L S Q T D H R L V L A L W K K M N V I G I Y T T E A L E R T F L A F P S T K T
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UniRef90_Q8UUR3 L S D G A E R T L V Q D T W A R V S C E D V G V A V L V R F F V N F P S A K Q
UniRef90_D4A021 H F T E E D K A T I T S L W G K V N V I E D A G G E T L G R L L V V Y P W T Q R
UniRef90_H2ZWU1 L S K Q E K E L I T E I W T R L T A D R I G A E A L R M F T S Y P G T K T
UniRef90_V5N6Q4 MS F S E A E V I Q S A R G A W E K V D A E D N G T A V L V R M F T E H P D T K S
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UniRef90_UPI000440508 M V L S E G E W Q L V L H V W A K V E A D G H G Q D I L I R L F K H H P E T L E
UniRef90_P84216 L S Q R E R E L L V E L W D R L T A E D I G S E A L L R M F T T F P K T K T
UniRef90_UPI0003316BA2 M V L S S Q N K K A I E E L G N K A N A E A W G A D A L A R L F E L H P Q T K T
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UniRef90_A9L8X8 M A F S E A E V Q R A R G A W E K M N A E D N G T T V L V R M F T E H P D T K S
UniRef90_S4RW14 H L T S E H I A M I K E S W K V I D I A K V G I I V F V R L F E T H P E C K D
UniRef90_K7GM56 M P L S G G Q R A L I R E S W R R L S P E Q H G L V L F S R L F D L D P D L L P
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UniRef90_P07420 L T D A D K K T I H I A Q V L N P E E N G K T I V I R L F T D Y P E T K A
UniRef90_P56691 L T G G E Q A I I Q N T W T K V N K D A A G V A V L M R L F T S F P S S K Q
UniRef90_H3ARB7 M V L T A C D K T N V K A V W T K V H L E D Y G A E T L E R M F A T Y P S T K T
UniRef90_M7B1Z7 L S E Q Q Q L L V E S W R L I D I A K V G V I L F V R L F E T H P E C K D
UniRef90_W5UIQ8 L S E A Q K E L I R E S W K I L N I T R V G I I V F I R L F E T H P E C K D
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UniRef90_UPI00039409C2 M F L G F P S T T T
UniRef90_UPI0003D71B9E G L S S A D Q K L I R E S W Q K V G V S E H G I V L F T R L F D L D P D L L P
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UniRef90_K7FYS7 V S L S A E S R E A I R S S W K E I D I S R V G V I M F V R L F E T H P E C K D
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UniRef90_F6R663 V K L S E D Q E H Y I K G V W K D V D H K Q I T A K A L R V F V V Y P W T T R
UniRef90_K7GQP8 G L S D S E K S A V A S L W E K I A P Q T L G A E S M E R L F K N H P E T K S
UniRef90_S9W893 V H L T P E E K A L V I G L W A K V N V K E Y G G E A L G S L
UniRef90_UPI0004239CA MS L T R A E R T I V V S M W S K I S A D V I G T E T L E R R V T C
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UniRef90_UPI00044398FC M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_I3KRJ1 M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
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UniRef90_UPI0003F0C79F M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_G3ICM7 M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_P56692 M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_P02022 M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_UPI0002C45644 M T K K Q R E L V E S T W E M M A P D K H G A V M F A K L V S D N P K V G R
UniRef90_W5PMJ4 A D H D L V L K C W G G V E A D G H G G E V L N R L F K E H P E T L K
UniRef90_COA118 L T E V D Q Q L I R D I W A K V N A E E N G R L V I R F F T E Y P E S K Q
UniRef90_W4XLX6 V G A E R L G E V L I R L F K G H P E T L E
UniRef90_W4XLX6 D F D T V L T S W G S V N Y A A I G G E V L G R L F V E H P E T Q K
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_W4XLX6
UniRef90_UPI00037CD26A
UniRef90_V8PAM9
UniRef90_UPI0001D53D30
UniRef90_E3TEM7

	50	60	70	80
UniRef90_P02197	R F D K F K G L K T P	D Q M K G S E D L K K H	G A T V L T Q L	G K I L K Q K G N
UniRef90_P02020	Y F P H F	G H D F S A N S N E E I V	K K H G K T V V L	D A I L G G Q G V L Q K H
UniRef90_A6MHQ6	K F D K F K H L K S L	D F D E M K S A N S E E I V	K K H G K T V V L	D A I L G G Q G V L Q K H
UniRef90_Q7LZM7	Y F A H F	D F S P S A N S E E I V	K K H G K T V V L	D A I L G G Q G V L Q K H
UniRef90_C1BYA0	Y F S H L	D I R P R S R Q M L S	H G K K I V L A I	A E C S K N D I S S
UniRef90_H3B2L7	Y F K N F K N I S T M	E E M Q K N E Q I R I	H G K L R V M N S	L N Q V I K Q N I S D N
UniRef90_P06639	Y F P A	K D L E S E R S S Y L	H S H G K K V V G A L	T N A V A H I L D D
UniRef90_A4IGG7	Y F S Q F Q D M E D	P E E M E K S S Q L	R K H A R R V M N A I	N T V V E N L H D D
UniRef90_UPI000328AF02	Y F S H	M D L S H G S A Q	V W D H S K K V A V A	L T V A A G H L D D D
UniRef90_Q1AGS5	Y F S W F K D A S P	G S A P V V R K H G L	T I T M G G V Y D	A A G T K I L D D D
UniRef90_K4FYM0	Y F V G F	S D Y T A K G P	V R Q K H G L T V	M T K I E G I Q Y L D S
UniRef90_K7F490	Y F S Q F K H M E D	P L E M E R T P Q L	R K H A R R V M G A V	N T V V E N L I N D
UniRef90_P02200	R F E K F F K H M K T A	D E M K S E K M K	G N T V F T A L	G N I L K N Q K G N
UniRef90_UPI00034F7437	Y F P H F	D L H P G S P Q L	R A H G S K V M A A L	G D A V K N I L D N
UniRef90_L8HMV9	F F E S F G D L S S A	D A I L G N P K V	K A H G K K V L D S	F S E G L K Q L D D
UniRef90_Q6F3D3	Y F G	G K D I S E E S S Y L	H S H G K K V M	C A L T N A V A H I L D N
UniRef90_G5DZ36	Y F P K F	D F H K D S A Q M K A	H H G K K V V D A L	T E A S N H L D D
UniRef90_UPI0000F60FEE	Y F G H L G S C L D E	V A L L N	H H G Q R M L M A V	G V A V Q Y M D C
UniRef90_P83113	Y F P N F	D F H K D S P Q I	L K A H G K K V V D A L	T E A S K H L D N Q
UniRef90_S7Q7N2	K F E K L K N L K S E	D E M K A S E D L	K K Q	G A T V L T A L G G V L K K G Q
UniRef90_S9YMZ9	Y F P H F	D L H P G S A Q L	R A H	
UniRef90_Q575S4	Y F K N L K N I A T L	E E M Q V N P G I	R A H G K R V M N A	L N Q A V I Q N L N D
UniRef90_P07408	Y F S K F T D F S	A N G K R V V K A H	G K R V M N G A V	N A D A T Q N H L D N
UniRef90_K7FZS0	Y F P H F	D L H H D S E Q V	R K H H G K K V V L T A V	L G N A V H H M D T
UniRef90_Q6DEW1	H F S Q F K H M E D	P L E M E G S V Q L	R K H A R R V M G A V	N S V V E N L G D
UniRef90_H2U139	L F K D F K D I E E P	E E M Q R S I Q L	R K H A R R V M T T I	N S T L V E N L D D
UniRef90_G1QF83	Y F A H L	D L R P G S A Q V	K A H G Q K V A D A L	T L A V N H L D D
UniRef90_Q8UUR3	Y F E F R E L Q D P	A E M Q N A Q L K	E H G Q R V L N A L	N T L V E N L R D
UniRef90_D4A021	Y F P H L	D L K P G S Q V K	A H A Q K V A D A L	T L A A H H L D D
UniRef90_H2ZWU1	Y F G N F K G M G S A	A E M E Q S A Q V	R T H G K K I F S A L	N D M I Q H L D S
UniRef90_V5N6Q4	Y F S Q F R E M D D	P E E M E R S S Q L	R K H A C R V M N A	L N T V V E N L H D
UniRef90_G3QIW6	F F D S F G N L S S A	S A I M G N P K V	K A	
UniRef90_C8YNP6	Y F S H L	D I T P R S A H L	L S H G Q K R I F L A	L A E G S K D I A N
UniRef90_Q5QRU6	Y F T H F K G M D S A	E E M K Q S D Q V	R K A H G K R V F T A L	I N D M V Q H L D N
UniRef90_UPI0002C64E9A	Y F L H L	D L S P G S D Q V	K A H G Q K V A D A L	T L A M D H L D D
UniRef90_J9P9H8	Y F P H F	D L S P G S A Q V	K A H G K K V A D A L	T T A V A H L D D
UniRef90_Q575S6	Y F S Q F Q D M E E	P E E M E R S S Q L	R K H A C R V M N A	L N T V V E N L H D
UniRef90_UPI000441DE38	Y F S Q F K H M E D	P L E M E R S L Q L	R K H A R R V M G A I	N S V V E N I Y D
UniRef90_P20244	Y F P K F S G F S A N D	A P L D L S P G S M Q	L R A H G A L V L K A L	V D T N K H L D D
UniRef90_UPI0004440508	Y F			
UniRef90_P84216	Y F P N F S G Y H A T D A P		V K A H G A K V I N A V	L K A A E H L D D
UniRef90_UPI0003316BA2	Y F S Q F K H L E E P	L E M E R S P Q L	R K H A C R V M G A L	N T V L E S L H D
UniRef90_Q92025	H F S T F G N L S T	P A A I M G N P A V	A K H G K V V M H G L	D R A V Q N L D D
UniRef90_A9L8X8				
UniRef90_S4RW14	F F P K F K G L D S A D	Q L S K S A A V R	W H A E R I I N A V	N D A V V A L D D
UniRef90_K7GM56				
UniRef90_Q0KIY5	K F D R F K H L K S E	A E M K A S E D L	K K H G Q V T V L T A L	G A I L K K K G H
UniRef90_W5KM17	Y F T H L	D L S P H S E P	L R S I G K K V V E A L	I A E G T R H I G Q
UniRef90_P07420				
UniRef90_P56691	Y F S K F S S G F E A C		N E Q V K K H G K R V M N A	L A D A T H H L D N
UniRef90_H3ARB7	V F F L F R D I D D F	H Q L K M S K E L	Q A H H G L R V M S F I	E K S V A R L D K
UniRef90_W7B1Z7	Y F T H F K G M G T A	E E M Q S D Q V	R S H G K R V L T T I	N D L V Q H L D S
UniRef90_M5UIQ8	V F F L F R D V E D L	E R L R T S K E L	R A H G L R V M S F I	E K S V A R L D Q
UniRef90_UPI00042BDA80	Y F P H F	D L R P D S G H I	R C H G M K V V A A L	D S A V R Q I D N
UniRef90_UPI00039409C2	L F Q Y N C Q F A S	P Q E C L S A P E F L	D I R K V M L V I	D S A V S H L E N
UniRef90_UPI0003D71B9E	Y F D H F G D F S F	C A A T E D N H K L	K A L G K K M I E S F	S E D L Q S

	90	100	110	120
UniRef90_P02197	H E S E L K P L	A Q T H A T K H K I	P V K Y L E F I	S E V I I K V T A E K H A A
UniRef90_P02020	L S S C L H T L	S E K H A T R E L M V	D P C N F Q Y L	I E A I M T T I A A H Y G E
UniRef90_A6MHQ6	H D A E L S P L	S A Q S H A T K H K I	P V K Y L E F I	C E V I V G V I A E K H S A
UniRef90_Q7LZM7	I G G T L S A K L	S A D L H A Q Q L R V	D P V N F G F L	R H C L E V V I A A N L S A
UniRef90_C1BYA0	M M V T L A P L	Q T L H A Y K L K I	D P Y N L K Y L	S H C L I V T L A A H M G S
UniRef90_H3B2L7	L N E V Y S H L	A K R H Q Y V H R V	D V H N F K L I	F G V I I K I L K E A L G A
UniRef90_P06639	I D T A F S K L	S D K H A E E L M V	D P A N F P K L	A H N I L V V L G E A L K P
UniRef90_A4IGG7	P E K V S S V L	G K A H A F K Y K V	E P V Y F K I L	S G V I L E I L A E E F G E
UniRef90_UPI000328AF02	L P G V L S A L	S D L H A F K L R V	D P V N F K F L	G H C L L V T L A C H L P D
UniRef90_Q1AGS5	L K G G L L S L	S E L H A F M L R V	D P V N F K L L	A H C M L V C M S M V F P E
UniRef90_K4FYM0	L R S F L D A L	S A K H A H E L M V	D P V N F G F L	G E C V L S S L A Y Q L P
UniRef90_K7F490	V S S V L A L V	G K A H A L K H K V	E P V Y F K F F	T G V M L E V I A E E Y A N
UniRef90_P02200	H A E V L K P L	A K S H A L E H K I	P V K Y L E F I	S E I I V K V I A E K Y P A
UniRef90_UPI00034F7437	V E V A L T K L	S E L H A Y V L R V	D P V N F K L L	N H Y M L L T R A N N F P E
UniRef90_L8HMV9	L K G A F A S L	S E L H C D K L H V	D P E N F R V S	L W N P Q Y S L F M V K L V
UniRef90_Q6F3D3	I E A C L D K L	S D T H A H E L M V	D P T N F P R L	G H N I L L V I G I H M P Q
UniRef90_G5DZ36	I G G T L S K L	S D L H A H D M R V	D P G N F P L L	S H H I L V V I A L H M P K
UniRef90_UPI0000F60FEE	L R A A L A P L	A T M H A Q M L R V	D P A N F A L L	S H C F Q V V L A S H L Q D
UniRef90_P83113	I N G A L S K L	F D L H A F E L R V	D P G N F P L L	A H H I N V T I A V M F P D
UniRef90_S7Q7N2	H E A E L K P L	A Q S H A T K H K V	P V Q Y L E F I	S D S I I K V L K S K L G G
UniRef90_S9YMZ9	G G G G G S G R	K A P G A R A L S L	P P F P P Q L L	S H C L L V T V A S H F P A
UniRef90_Q575S4	W E S A L T H L	A Q R H Q R D L S V	G V N N F Q L L	F L V I L T I F K E A L G A
UniRef90_P07408	V A G H L D P L	A V L H G T T L C Y	D P H N F P L L	T Q C L L V T L A A H L T
UniRef90_K7FZS0	L S K T L S D L	S D L H A Y N L R V	D P V N F K L L	S H C F Q V V L A V H L R D
UniRef90_Q6DEW1	I T T V L S L V	G K S H A L K H K V	D P V Y F K I L	T G V M L E V I A E E Y A K
UniRef90_H2U139	A D A M A S A L	G R A H A L R H K V	D P K Y F K I L	S G V I L E V L G E A F T E
UniRef90_G1QF83	L P R A L S A L	S D L H A H K L Q V	N P V N F K L L	G H C L L V T L A R H Y P G
UniRef90_Q8UUR3	L N T I F N Q M	G K S H A L R H K V	D P V Y F K I L	A G V I L E V L V E A F P Q
UniRef90_D4A021	L P G S L S A L	S D L H A H E L R V	D P A N F Q F F	S H C L L V T L A R H Y P G
UniRef90_H2ZWW1	L L G V V N P L	G K K H A T Q L K V	D P K N F K I I	C N I L L Q V L D E K
UniRef90_V5N6Q4	P E K V S S V L	G K A H A V K H K V	E P M Y F K I L	S G V I L E V L S E D L G N
UniRef90_G3QIW6			P E N F R L L	L G N V L V T V L A I H F G K
UniRef90_C8YNP6	L M T N L A P L	Q T Y H A Y Q L K I	Q P N N F K L L	F S H C M I V T L A C F M G D
UniRef90_Q5QRU6	F L G I L N A P	L Q R K H A T Q L R V	D P K N F R I I	C D I I L Q L M E E K
UniRef90_UPI0002C64E9A	L P C T L S A L	R R K H A H E L R V	D P T S F Q L L	G H C L L V T L A R H F P G
UniRef90_J9P9H8	L P G A L S A L	S D L H A Y K L R V	D P V N F	
UniRef90_Q575S6	P E S V L A V V	G R A H A V K H K V	E P M Y F K I L	S G V I L E V L C E D F P E
UniRef90_UPI000441DE38	V S S V L A L V	G K A H A V K H K V	D P V Y F K I L	T G V M L E V L K E E Y A N
UniRef90_P20244	L P H H L N K L	A E K H G K G L V D	D P H N F K L L	F S D C I A V T L A A H L Q
UniRef90_UPI000440508	L P D A L S A L	S D L H T R Q L R V	D P T S F Q L L	G H C L L L T L A R H Y P G
UniRef90_P84216	L P K H L E K L	A T K H G H E L L V	D P H N F V L L	F S D I I V V T L A T K L P T
UniRef90_UPI0003316BA2	P D S V L A L V	G R A H A L R H X X	P P P T Q I L	T G V I L E V I A E E S A D
UniRef90_Q92025	I K N A Y S A L	S V K H S E K L H V	D P D N F R L L	A E C I T V C V A A K L G P
UniRef90_A9L8X8	L K G T F S Q L	S E L H C D K L H V	D P G N F R L L	G N V L V C V L A H N F D K
UniRef90_S4RW14	P E K L L K A L	S K K H A Q E F N V	D P Q Y F K V L	A V N I V E G V S A N G G
UniRef90_K7GM56	L P G A L S A L	S D L H A H K L R V	D P V N F K L L	S H C L L V T L A A H H P D
UniRef90_Q0KIY5	H E A E L K P L	A Q S H A T K H K I	P I K Y L E F I	S E A I I H V L H S R H P A
UniRef90_W5KM17	F T A N L S Y L	S R F H A Y Q L R L	H P T N F K L L	F N H C I L V T L A C Y L G E
UniRef90_P07420	L K G T F A K L	S E L H C D K L H E	D P E N F K L L	G N I L V I C L A E H F G K
UniRef90_P56691	L H L H L E D L	A R K H G E N L L V	D P H N F H L F	A D C I V V T L A V N L Q A
UniRef90_H3ARB7	L E Q I A F E L	G R S H C R Y N A	P P K Y E E Y V	G V Q F I S V V K P L L K E
UniRef90_M7B1Z7	T D A F L N P L	G K K H A M Q L K V	D P K N F R I I	C D I I L Q L M E E K Y G G
UniRef90_W5UIQ8	L E R L D S L A	V E L S H Y R Y Y A	P P K Y Y G Y V	G T E F I C A V R P I L K E
UniRef90_UPI00042BDA80	I S E A L S A L	S N L H A Y N L R V	D P V N F K L L	H C H C F Q V V L S V H L A D
UniRef90_UPI00039409C2	L S C L E E Y L	C N L G K N H V G V	K V E S F S T V	G E S L L Y M L E K C L G A
UniRef90_UPI0003D71B9E	L H Y T F A S L	S E L H H D K L H M	D P E N F	
UniRef90_Q9YGW2	L H S H L E T L	A L T H K G K L H V	D P Q N F P M L	S E C I I V T L A T H L T
UniRef90_M7BE56	W C R I L D R L	A V K H G N V H Q V	S V N F Q S M F	Q V I L S V C K E L L G N
UniRef90_W5LJG5	T A A V L K V V	A K S H A I K H S V	E P R Y F K L L	T G V I L E V L V E A F P E
UniRef90_K7FYS7	L P S A L S R L	S D L H A K N L R V	D P V N F	
UniRef90_F6TGD7	C A R L E E L A	G R S H A K R Y N A	P P R Y Y Q Y V	G T E F I S A V R P M L Q D
UniRef90_UPI0004423B55	Q E G K L E V L	A G R S H F R Y K A	P P N Y Y E Y I	G I Q F I Q A V Q P I L K E
UniRef90_Q071M5	L K A G L S D L	S E Q H A F K L R V	D P A N F K I L	N H C I M V V I S S M F P K
UniRef90_F6R663	L P R A L S A L	R H R H V R E L R V	D P A S F Q L L	G H C L L V T L A R H F P G
UniRef90_K7GQP8	L P G A L S A L	S D L H A H K L R V	D P V N F K L L	S H C L L V T L A A H H P D
UniRef90_S9W893	F K G T F A K L	I E L P C D K L H V	D P E N F R L L	G N V L V V V L A R H F G K
UniRef90_UPI00044239CA	L H C L E E Y L	A N L G K K H V G V	K L E S F E A V	G D S L L Y M L E K C H G P
UniRef90_A7SFV0	V M S F S A Y L	E E L G R R H K T L	K P S Y L E A M	H G A L M D T L R N L L Q S
UniRef90_B3RYV6	F S E L Q S A L	S T L G Q F H H R I	K F E N F Q A V	I G Q A L I Q T L S D K L Q E
UniRef90_UPI00044398FC	F K A M Y A P L	S R Q H Y E K I K V	D P D N F R	
UniRef90_I3KRJ1	L D Q L I L D L	G R K H Y Q Y K A L	P K Y Y D L M G	E E F I Q A I H P V L Q E
UniRef90_UPI00042BFA97	I A T A L S A L	S D K H A V L R V D	D P V N F K I L	N Q Y V I T
UniRef90_M3ZD79	L R A G L L S L	S E L H A F T L R V	D P A N F K V L	S H N I L V V L A T S F P N
UniRef90_UPI0003F0C79F	L D N A L R K L	A K T H V R F K G F	K P D Y F D A F	E E A M L S V W Q E E L G Q
UniRef90_G3ICM7				
UniRef90_P56692	V E I N F Q N L	S G K H Q E I G V	D T Q N F K L L	G Q T F M V E L A L H Y K K
UniRef90_P02022	L Q	K Y Q D L H T N K L K L	S S D H M K L L	S A A I I E V F T A H F G G
UniRef90_UPI0002C45644	L R G T F A Q L	S E L C C D K L H V	D P E N S R L L	G G M L V C V M A H S F R K
UniRef90_W5PMJ4	G R T G Q R L L	S R L R A C T L S F	P P Q F L S	H C L L V T L A S H F P A
UniRef90_COA118	H A A L L K P L	A T S H A N T H K I	P I N N F K L I	T E V I V K H M A E K A G L
UniRef90_W4XLX6	P E F L V P M L	H Q R R H S G Y G V	T K E L F L A V	K S A L M F T L K Q G L G K
UniRef90_W4XLX6	P E F L V P M L	H Q R R H S G Y G V	T K E L F L A V	K S A L M F T L K Q G L G K
UniRef90_W4XLX6	P E F L V P M L	H Q R R H S G Y G V	T K E L F L A V	K S A L M F T L K Q G L G K
UniRef90_W4XLX6	P E F L V P M L	H Q R R H S G Y G V	T K E L F L A V	K S A L M F T L K Q G L G K
UniRef90_W4XLX6	P E F L V P M L	H Q R R H S G Y G V	T K E L F L A V	K S A L M F T L K Q G L G K
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UniRef90_W4YI83	P	E	F	L	V	P	M	L	H	Q	L	A	T	R	H	Y	G	V	T	K	E	L	F	L	A	V	K	S	A	L	M	F	T	T	L	K	Q	S	S	L	G	K	
UniRef90_W4YI83	P	E	F	L	V	P	M	L	H	Q	L	A	T	R	H	Y	G	V	T	K	E	L	F	L	A	V	K	S	A	L	M	F	T	T	L	K	Q	S	S	L	G	K	
UniRef90_W4YI83	P	E	F	L	V	P	M	L	H	Q	L	A	T	R	H	Y	G	V	T	K	E	L	F	L	A	V	K	S	A	L	M	F	T	T	L	K</							

		130	140
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UniRef90_H2ZPV1	L R S H F Y S I D I A D D E E L S K K V V S H A T R I A V A I S K F V D F L D K S				
UniRef90_UPI0001CBB479	V F M P F K E L Q G D D L R W S S A L K A H G L R V M A V I E R V L A R I L D D S				
UniRef90_H8Z115	L F K G E M D			E Q A H K L M R M V N R T V D T L D D	
UniRef90_A7IIA0	L F K G			D M T T Q G Q K L M A T L G V V V A G L K D	
UniRef90_A7RZB2	L F P E F R N I S N E K I A E S P A L Y G H A R R V M K S V D N A V A S I E N				
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UniRef90_A0A034WB94	K F P F R D V P V A E L N N S A R F R A H C G R I V D K T F D Q S I S Q L Q K				
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UniRef90_UPI00035CA314	L F K S			D I K S Q G R K L M T M I K A A V A G L D D	
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UniRef90_M2APL6	L F K G			D M S E Q G K K L M S T I T L A V T S L D R	
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UniRef90_B8C6B7	L F P S			D L A D Q K K K L M A M I S V A V D G L T D L E A	
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UniRef90_P18979	L S G A I S K L S D L H A			
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UniRef90_B7QHN5	P A G V V A L I R K N A T D H K G V Q P S H F E A M L N V V L S E V L Q D K L G D			
UniRef90_O97382	S E H L I R Q L K D L G H T R L G M T R S H F D N F A T A F L S V A Q Q D I A P N			
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L T E S E A N S V K T S W N L V K D K E D E I L Y A I F K E N P D I Q A
M T T E Q K A L V T A T V G T L R A H A L T T H F Y R R M F E H N P E L K N
L D Q A T I E I K S T V P Q V H G K T I T T T F Y R M L F E N H P E L L N
M T E A Q I L L V K S W T A I R S D I G V K F Y T K L F E V Q P E L F K P
M G L T Q Q Q I D I V K S T A P K V H G E T I T T L F Y K D M I D T H P E L K N
L D S A T I E I K A T V P K I H A E E I T K Q F Y P L L F S L H P E V I P
L T Q Q T I A T I K S T V P V M E V T Q I T S T F Y Q R M F A A H P E L N
M L L G N D E I E M V R S S F E K V N K D E V A S L F Y K K L F E L I E G Y K A
D V R I L K S S F A V V E A E H A V K F F Y S H L F W H N P A I R K
M H D D Q I G L I K S S W G L I K A Q T L G E H F Y S E L F R I H P E Y E R
L N V D Q I G L I R E S F A V V E S D D V A K F F Y G M L F S L A P A T R E
L I R R T M A E I E A D K V T S Y F Y A L L F V Q Y P D L R A
E L S A H N V E I I R E T L P V I H I D Q I T P L F Y E K M F G A H P E L I R
M A L T Y Q Q M K L I K S T V P K E S G E L I A T T F Y R D M L A E N P R L R E
M A L S Y Q Q T K L I R G T I P A L H G E R I T T F Y R N M L R D H P E L N D
M V L S S A Q A K A I Q A N W K T V R A Q D Y G N D L F V R Y F I Q N P G D V E
L T Q Q H I D T V K S T I P L L E S A A I T K H F Y Q R M F E H N P E L K D
S L T P G D I A I K A T V P A L E A H A D I T T E M Y R R L L A
A I R T T F K A V A A D D A G P D E L A R L F T D H P Q I R D
M T P D Q V R L V Q D S F R E I V P I R V A A A F Y E R L F A D A D L R A
MS L S P E Q Q Q I I K A T V P V L H G T T I T T V F Y K N M L A A H P E L N T
M G L T Q E Q T D I I K A T V P K E H G N A V T S V F Y K N M L A A H P E
L L K E S W S F V E P D R L A E N F Y A R M F L A D P A L R D
MS L S A A S K E V I A T L P A V A I G D I T P L F Y K K L F A A H P E L E R
L T N N E K Q L L R L S W D L I N H N H I S K A T P E E L M D K Y G F E R K
MA L T E K Q E V L V K E S W E K Q N I P E Y S I R L F L R I M E V A P S A K N
Q F Y A N L L S M E P S L E Q
L S E Q T R E I V K Q T V P V L E Q H E I T K V F Y T R M F E A H P E L L N
H M P E I T P K F Y A H M F E A H P E L L D
L T K K Q K F I L T K N W K G I D V T E A G A N M F V K M L A A H P E L N T
L T P E H E A T V T A T L P A I N I G E I A R V F Y A G M F A E H P E L L A
F S E F E K D V L T S W E A L Y T H E H G A F I F R L A A E M C P E L K A
E L L E S F A Q I K A Q E L T N H F Y T N L F A D Y P E V K P
M G F T A Q Q E A L V G S S Y E K K N L P T N S V L F Y T V I L E I A P T A K D
L D Q K T I D I I K S T V P A L K A H E I T T T F Y K N M F A N N P E V K P
S D S D K S A F V S S W N E L S R R N A G V N L V L W L F N N V P N M R N
S D S D K S A F V S S W N E L S R R N A G V N L V L W L F N N V P N M R N
S D S D K S A F V S S W N E L S R R N A G V N L V L W L F N N V P N M R N
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S D S D K S A F V S S W N E L S R R N A G V N L V L W L F N N V P N M R N
M G F T E N Q V A L V N S S Y E K Q N L P T Y S V L F Y T I L L E K A P A A K D
L T S A Q E S V I A A T T P V V H I E A I A K R F Y P L M F A R Y P E V R T
A R E A F K L K Q S W K K R K I E E T G V N Y S G K L F K T N A N L K Y
M G L T T A Q R A A I Q N N W A T V M M Q E F G D A L F M R Y L L A N P G D I Q
A L I E Q N F A A L E G E A L A A R F Y E R L F T N Y P K L K P
G L T K S Q K V A L I A A W S I V K K D T H G R N I F V M F F E E Y P Q Y L D
L I R E S F A E I E A D E L A Q Y F Y G A L F V V A P D C R D
S D S D K R A L V I S S W K K L T A G N F G V D L V L W M F N N V P N M R E
S D S D K R A L V I S S W K K L T A G N F G V D L V L W M F N N V P N M R E
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MS L D I Q I I R D S F A Q A K A D Q V A D K F Y E F L F T D Y P A A K P
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L T E N Q K S I I K A T V P V L H G V A L T S H F Y E R M F A Q N P E L K Q
L D Q K T I E I I K A T V P V V H G E Q I T T V F Y K T M F E N H P E L L
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L S Q E T I D I V K S T V P I L E K R E I T S H F Y K R M F S N H P E L L N
L T D K H I D I I K S T I P L L E K R E I T S H F Y Q R M F S H N P E L Q D
Q Q T F A E V N P Q Q L V I E A F Y G Q L F M L A P D F R P
K E L V K S T I P K S Q G E D I T K V F Y R E L F T R Y P Q V K S
V L D S N T I A T I K A T I P V L E S G A I T E H F Y R R L F S H N P E L L N
E I T S H F Y K R M F N N H P E L L N
L S Q Q T I D L V K S T V P I L Q G E T L T K Y F Y K R M F S Q N P E V L P
L T P E Q K A I V K A T V P A L E A E T I R T F Y A S M F A A H P E L L N
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		90	100	110	120																																				
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UniRef90_K1PR28	H	S	E	F	F	N	G	I	V	E	N	I	G	R	S	H	G	I	K	P	K	M	L	E	L	L	W	P	S	L	N	Y	G	L	K	Q	V	L	R	D	
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UniRef90_R7TLW3	M	E	E	V	L	S	I	L	H	D	L	G	R	K	H	L	T	A	K	V	E	Y	I	D	I	V	S	Q	M	F	L	F	A	I	E	S	A	R	L	K	E
UniRef90_V9ZVV7	L	D	A	L	S	F	I	I	R	D	L	G	R	K	H	L	T	A	K	V	E	Y	I	D	I	V	S	Q	M	F	L	F	A	I	E	S	A	R	L	K	E
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L S E Q S V I V V R A T V P V V G A G E I T A L F Y E K L F T D R Y P E L L R
L T Q H T I D I K A T V P A V H A N D I T A H F Y P L M F R E Y P E V K R
L D E K T I R V I K S T V P V L H G E T I T T R F Y E K L F E N H P E L L
M T I Q E I N I V K R T W K L V D P Q L L G D V F Y R R L F L T Y P S V R P
L T A E Q M D R V K A S A P M L A A E K I I A R H F Y Q R M F R R H P E L R N
L D E K T I E I I K S T V P V L A G E E I T G R F Y D L L F R H D P E L L R N
M S L T P Q N I S D I R D S W Q A L E P E A I T A D F Y E T L F R H D P E L L R P
M L L S P E S E A A V V K A T A G V L N G D E I T K R F Y A H M F E A R P E L L K R
S V S A D E A A L V K A T A W Q V V R T N E V D I L Y A I F S A Y P D I Q A
L T E Q Q R D I V K S T V P L L E S E T L A R H F Y Q I M L E G Y P E V R P
M S P E Q I L V R Q S W N Q V A A A G S R A A F Y A T L F V I A P E T R T
H L S E A S H E I V K A T L P L V K I G E I A P V F Y N K M F A A H P E L I R
M E L S A K T I E I V K A T A P I V N A E A I T S T M Y K I M F T N H P E I K E
L S E Q T I A T I K S T V P V L A E H A I T Q Q F Y K R L F Q Q H P E L L N
L T E K E K S I K E T V P V L K G E I T S H F Y K R M F K Q H P E L K N
L S E Q S K D L V N A S T P A V K V D E I T A V F Y P L M F S R Y P E V K A
L S E K T M Q I V K S T A P K E K G T E I T T C F Y K R M F D A H P E L K
S D D D R R A L Q S S W S R L N K Q E A G I K L V T W L F D N V P N M R D
E H L R R T W A R R H E A D I A R D F Y T L L F T L A P E T R D
L T P S Q L A I V K S T A P K E K G E E I A L T Q H F Y Q R M F T H N P E L K D
D V A L L E K S F E Q I S P R A I S A S F Y Q N L F H H H P E L K P
M A L T A A Q V A I V K S T A P K E H G K T I T T F Y R N M L G A H P E L K N
L D T K T I E I I K S T V P V L E K E D I T K T F Y K L M F T N H P E L L N
S D V E W D M V L K A W A P V S E A D A H G A E V L T R L F K A H S G T Q L
L S P K S A E T V R A T L P A V S I G E I T T L F Y E K L F A A H P E L L R
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L S E Q T R S I V K S T V P V L E E H G V A F Y E N L F V A H P E L L
L S E K S T A T V R A T L P A V K G R A E E L G T R F Y R H L F A E Y P E L L Q N
V L T D R Q R A I V Q S T V P L L E T E A L I T H F Y Q T M L G E Y P E V R A
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L T Q E T R D I V K S T A P V L H G T T I T T V F Y R N L F E A H P E L L N
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G L D G A Q K T A L R E S F E V L G A D K N G S L L F G L F K T Y P D T K K
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UniRef90_D0D515	L	A	P	V	L	A	P	L	E	A	L	G	A	R	H	Y	G	V	Q	D	G	D	Y	D	T	V	G	A	A	L	L	E	T	M	S	R	R	L	G	A		
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UniRef90_V5YLQ7	I	Q	T	I	F	N	E	M	G	Q	T	H	Y	N	R	G	V	T	A	Q	Q	F	A	E	F	R	T	A	F	I	N	Y	L	S	S	Q	V	L	S			
UniRef90_UPI0004723022	L	D	A	H	L	V	G	T	I	V	N	K	H	V	A	L	Q	V	L	P	E	H	Y	P	I	V	G	T	C	H	L	L	Q	A	I	R	D	V	L	G	E	
UniRef90_A8LZ06	L	T	A	F	T	H	R	L	G	A	D	H	R	F	H	G	V	D	L	E	H	Y	M	W	V	G	Q	A	L	L	A	T	L	S	E	H	F	V	G	P		
UniRef90_UPI00023766A7	L	D	P	A	L																																					

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LN E K Q I Q A WT K L M D T V Y S I I

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

	1	10	20	30	40																																					
UniRef90_A6GNY6	MS	V	S	T	E	Q	K	H	W	I	K	A	T	L	P	A	L	L	E	G	E	A	L	T	T	H	F	Y	K	L	M	F	S	K	Y	P	V	T	A	T		
UniRef90_G8YKQ9		L	S	T	K	R	E	I	A	L	I	R	Y	A	W	N	T	T	L	S	E	E	P	T	P	A	F	Y	R	R	M	F	Q	G	E	H	P	E	L	L	R	
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UniRef90_M1KNV4		L	S	T	D	E	R	T	I	D	L	I	T	A	T	L	P	V	V	A	L	D	E	I	T	P	A	F	Y	R	R	M	F	Q	G	E	H	P	E	L	L	R
UniRef90_V5YM17		L	T	S	S	E	V	A	T	I	K	S	T	W	D	A	V	K	T	H	E	V																				
UniRef90_P06148	MG	L	T	T	A	Q	I	A	K	A	I	Q	D	H	W	F	K	G	Y	L	Q	A	A	A	D	S	I	F	F	K	Y	L	T	A	Y	P	G	D	L	A		
UniRef90_A5E720		L	T	T	P	Q	I	A	L	I	K	S	T	V	P	I	L	E	G	E	T	L	T	K	H	F	Y	A	R	M	L	S	K	N	P	E	V	L	R	N		
UniRef90_R5Q9R1		L	T	T	P	H	Q	I	A	L	I	K	S	T	V	P	I	L	E	G	E	T	L	T	K	H	F	Y	A	R	M	L	S	K	N	P	E	V	L	R	N	
UniRef90_M7A5P1																																										
UniRef90_Q5AX11																																										
UniRef90_UPI0001E89D0C	MS	L	S	S	P	E	Q	I	Q	L	I	V	K	S	T	A	P	V	V	K	G	E	E	I	T	T	H	F	Y	K	T	L	F	T	N	H	P	E	L	L	N	
UniRef90_W5J008		L	S	S	N	E	Q	R	T	L	I	K	A	T																												
UniRef90_W7D677																																										
UniRef90_W0RNE9	MT	P	E	H	A	Q	L	V	R	S	T	W	P	A	V	A	A	D	V	D	A	L	A	S																		
UniRef90_V6KZR8																																										
UniRef90_G9BZP9		S	D	A	I	K	A	N	L	R	R	S	W	G	M	L	D	E	S	T	G	L	M	L	M	G	N	L	F	A	L	R	H	P	E	D	T	K	S			
UniRef90_I0L4J9																																										
UniRef90_M2X8F4																																										
UniRef90_G7CKL1																																										
UniRef90_UPI0002E92FA5																																										
UniRef90_UPI00047BB5FF																																										
UniRef90_R7TKA2																																										
UniRef90_Q54D73		L	S	Q	K	S	I	Q	I	K	S	T	V	P	L	L	E	K	V	E	I	T	S	K	D	C	L	I	R	Y	L	K	K	Y	P	E	H	K	A			
UniRef90_K9WGN6																																										
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UniRef90_W7TW85		V	L	S	P	H	I	V	S	V	V	K	S	T	A	P	V	L	A	A	Q	G	I	T	P	A	F	Y	P	L	L	F	S	R	Y	P	A	V	I	Q	E	
UniRef90_W8H2X1																																										
UniRef90_UPI00035D5ADC		L	S	T	E	Q	K	A	I	V	Q	Q	T	V	P	I	L	E	A	E	A	L	T	G	H	F	Y	R	I	M	L	R	D	H	P	E	V	I	R	P		
UniRef90_UPI000360A57F		L	D	A	R	A	E	I	S	L	V	R	A	G	F	K	S	V	P	L	A	A	E	N	G	P	A	L	L	A	R	L	F	V	D	H	P	E	F	R	A	
UniRef90_W6FIG9	M	V	S	A	E	Q	K	A	L	I	Q	G	A	W	K	S	P	I	Y	A	A	Q	L	G	V	D	I	F	A	H	F	F	K	A	H	P	N	Y	A	N		
UniRef90_Q9URY5	E	L	N	E	S	Q	K	Q	Y	I	R	S	S	I	P	I	L	E	S	S	G	V	T	K	A	F	Y	Q	K	M	L	G	N	Y	P	E	V	L	P			
UniRef90_D2Q0K7																																										
UniRef90_V4BX16																																										
UniRef90_UPI000248C5DB		L	N	E	Q	T	I	R	I	I	Q	S	T	V	P	L	L	E	S	K	E	V	T	K	R	F	Y	E	L	L	F	T	E	H	P	E	L	L	N			
UniRef90_A9ARM9		L	T	Q	T	K	D	I	V	K	A	T	A	P	V	L	A	Q	H	D	I	T	Q	C	H	F	Y	R	R	L	F	D	A	H	N	P	E	L	K	N		
UniRef90_G8X712		M	T	T	T	E	K	E	L	I	K	A	T	I	P	V	L	N	G	V	L	L	T	K	H	F	Y	N	R	M	F	A	H	N	P	E	L	K	N			
UniRef90_S2KG16		L	T	N	D	Q	E	R	L	I	E	A	T	A	P	V	V	H	L	D	A	I	T	Q	R	F	Y	P	L	M	F	Q	R	Y	P	E	V	K	P			
UniRef90_W2EJ10																																										
UniRef90_UPI0003A4765B		L	S	E	K	S	A	Q	T	V	R	A	T	L	P	V	V	R	I	D	E	I	A	A	R	F	Y	D	R	L	F	T	A	H	P	E	L	L	R			
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UniRef90_UPI00047AB5C2	M	N	L	S	A	E																																				
UniRef90_H5XB25																																										
UniRef90_UPI0002D348F1		L	N	S	P	K	S	T	E	T	V	R	A	T	L	P	A	V	G	A	G	D	V	A	P	L	F	Y	R	K	L	F	A	A	H	P	E	L	L	R		
UniRef90_K9T9X7	M	P	L	N	A	D																																				
UniRef90_K6BYF0		L	T	D	I	Q	R	D	I	V	K	K	T																													
UniRef90_C0Z6G4		L	S	Q	K	T	I	E	I	K	S	T	V	P	V	L	E	V	H	A	I	T	K	R	F	Y	Q	M	M	F	A	K	H	P	E	L	L	R				
UniRef90_Q25218		L	T	A	D	Q	A	N	L	V	K	S	S	W	K	Q	V	S	H	N	E																					
UniRef90_A1VLU1		L	T	P	E	Q	R	A	I	V	K	S	T	V	P	L	L	E	T	E	A	L	T	T	H	F	Y	K	I	M	L	A	E	H	P	E	V	I	R	P		
UniRef90_W7ITW3																																										
UniRef90_S6BTL8		L	S	V	E	Q	A	E	T	L	R	E	T	W	N	K	I	K	H	N	E	V																				
UniRef90_UPI0002628C30	MS	L	D	T	E	K	L	A	I	V	K	S	S	A	P	K	E	N	S	T	E	I	G	K	R	F	Y	E	L	L	F	T	K	V	P	E	L	L	N			
UniRef90_G7SSR7		L	D	Q	T	R	D	L	I	K	A	T	I	P	V	L	E	Q	H	A	I	T	T	N	T	F	Y	H	N	M	F	N	A	H	N	P	E	L	L	N		
UniRef90_K7RW75		L	T	Q	T	H	I	D	T	V	K	A	T	I	P	V	L	A	S	G	A	I	T	E	H	F	Y	A	R	M	F	A	H	N	P	E	L	L	R			
UniRef90_O66586		L	S	E	E	T	I	R	V	I	K	S	T	V	P	K	E	H	G	T	E	I	T	A	R	M	Y	E	L	L	F	S	K	Y	P	K	T	K	E			
UniRef90_Q25217		L	S	A	D	E	A	N	L	V	K	S	S	W	D	H	V	K	H	N	E																					
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UniRef90_E9EIN2																																										
UniRef90_Q0CEI5		T	A	E	Q	I	A	I	V	K	S	T	A	P	K	E	H	G	R	A	I	T	D	A	F	Y	T	N	L	L	S	V	H	P	E	L	L	N				
UniRef90_D2SGR7	S	L	T	P	Q	Q	K	E	I	V	K	A	T																													

UniRef90_A6GNY6 F F N P A H Q E K G T P R A L A N A V L A Y A K H I I D N P A V
UniRef90_G8YKQ9 F C L Q F Y S N L E P H L E D L F P S Q R K L Q A V A F A G V L S L A I A Q L E N G
UniRef90_R7WQK6 N L F N R G N Q A R G A S Q R R A L A A S I F V L Y A S A I A A A G D G
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UniRef90_V5YM17 K F S Q F A G K D L D S L K G S T D F A L H A T R I V S F I S N Y V L L V G D
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UniRef90_A5E720 F F N Q A H Q A R G A Q Q A L A A A V L A Y A Q N I E H P E D
UniRef90_R5Q9R1 V F N Q A H Q A R G A Q Q A L A A A V L A Y A Q N I E H P E D
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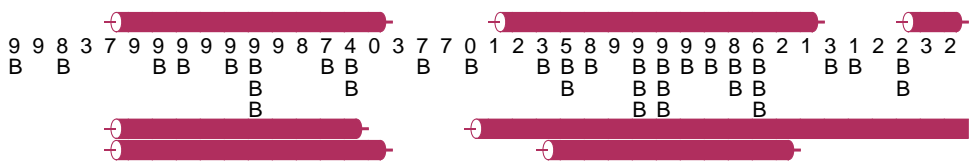
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UniRef90_G8YKQ9	L	S	A	L	M	M	N	L	A	K	R	H	S	R	I	L	N	I	E	S	S	H	F	E	L	M	G	E	A	L	L	Q	T	F	H	E	R	F	P	G		
UniRef90_R7WQA6	T	P	P	M	L	S	R	I	A	H	K	H	A	S	I	L	G	V	T	E	A	Q	Y	E	I	V	H	D	C	L	F	A	A	I	V	E	D	L	G	A		
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UniRef90_P06148	N	A	G	A	L	M	K	A	K	V	P	S	H	D	A	M	G	I	T	P	K	H	F	G	Q	L	L	K	L	V	G	G	V	F	Q	E	E	F	S	A		
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UniRef90_O66586	L	D	N	A	I	S	T	I	A																																	

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W G D N V A A A W D N T Y A V V L K A L A
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A V T P V V D A W T A A Y Q Q L A
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UniRef90_U1NCF7			F	S	R	Q	E	K	Y	L	L	R	K	S	W	N	L	I	K	S	D	E	I	A	V	K	I	F	E	M	I	F	E	K	S	P	Q	A	K	K
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UniRef90_Q53I65																																								
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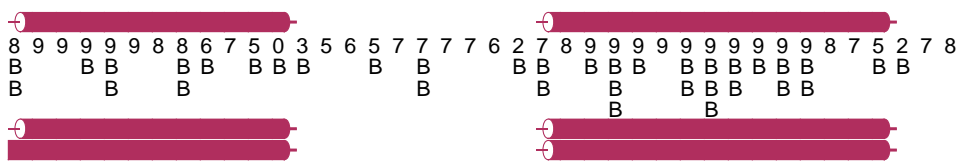
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UniRef90_H3SBC5	I M P V V K Q I G H K H R A L H I I Q P E H Y P I V G K H L L L A I K D V L G D			
UniRef90_V9D8T9	L K P A L E R I S Q K H V S L Y I R P E Q Y D I V G K Y L L E A M K E V L G D			
UniRef90_Q53I65	Q A D L D V A L A H L H V Q H R H I P T R Y F D L F K N A L M E Y A P S A L G R			
UniRef90_S6BEJ5	I E T L V T E L A N N H K N R G V T K D Q F T E F R N S L T D Y V S H H A			

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



lupas_21
lupas_14
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jnet
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jhmm
jpssm