





QUERY	T	D	Q	E	V	A	K	R	F	K	90	Y	G	A	G	Q	Q	D	L	L	100	F	S	G	N	N	V	R	G	M	G	110	Q	V	A	E	M	E	F	F	E	120		
UniRef90_A2BK38	A	E	V	A	K	R	F	K	L	G	L	Y	A	A	G	Q	Q	D	L	L	K	D	A	F	S	G	N	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_E1QTV0	T	E	N	I	A	K	K	L	V	L	L	Y	G	A	G	Q	Q	D	L	L	L	K	E	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_S6A569	T	E	K	I	A	S	K	P	L	V	L	Y	G	A	G	Q	Q	D	L	L	L	K	E	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_I0A1U2	T	A	K	V	A	K	Q	L	L	G	L	Y	G	A	G	Q	Q	D	L	L	L	S	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_B5IAB6	T	A	V	A	S	K	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	K	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_E3GZ16	T	A	K	V	A	S	K	M	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	T	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_D9S0X7	T	Q	I	A	K	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	S	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q2RG86	T	E	V	A	R	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_U6EBE5	T	A	E	V	A	K	E	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	K	E	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_D2RDW4	A	E	K	A	K	E	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	K	E	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q8TWS8	T	E	K	V	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	K	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_C6A543	T	E	I	A	K	E	L	L	G	L	Y	A	A	G	Q	Q	D	L	L	L	L	K	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_C3MRD6	A	K	V	A	K	E	L	L	G	L	Y	A	A	G	Q	Q	D	L	L	L	L	S	D	S	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_L0ABT5	A	K	V	A	K	E	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	S	D	S	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_A5FQB0	T	E	V	A	K	E	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	C	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q8RCX0	T	E	R	A	R	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_D3DG54	T	E	V	A	K	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	T	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q2NGI0	T	A	E	V	A	K	G	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	S	D	T	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_B115L9	T	E	V	A	K	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	G	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_R9SJ68	T	E	K	I	A	R	E	N	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	T	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_F8ACB1	T	E	V	A	K	K	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	A	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_UPI00036FA86C	T	N	N	V	S	K	K	Y	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	S	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_D8PEU2	T	A	V	A	K	E	L	L	H	L	Y	A	A	G	Q	Q	D	L	L	L	L	T	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_E0SPU6	A	K	V	A	R	E	L	L	G	L	Y	A	A	G	Q	Q	D	L	L	L	L	T	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_B8D642	T	K	V	A	R	E	L	L	K	L	Y	A	A	G	Q	Q	D	L	L	L	L	S	E	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_E8N0E8	T	A	K	I	A	R	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	T	E	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_F6BB66	T	A	I	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	A	E	C	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_UPI00037416A2	T	E	V	A	K	K	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_G7WRF4	T	E	K	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	C	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_A3CVU2	A	G	L	A	K	E	M	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	L	G	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_F4BZ11	T	E	T	A	K	G	L	L	K	L	Y	G	Y	G	Q	Q	D	L	L	L	L	A	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_UPI000381138E	T	V	I	A	K	R	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_M1RJF2	T	E	V	A	K	R	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	T	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_A5UUY1	C	T	R	V	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	K	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	T	F	F	E	
UniRef90_A9BGJ9	T	E	K	I	A	K	E	L	L	H	L	Y	G	A	G	Q	Q	D	L	L	L	S	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_D7E6J1	T	E	K	A	K	E	L	L	G	L	Y	A	A	G	Q	Q	D	L	L	L	L	S	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_T0LQP2	T	E	V	A	K	K	L	L	G	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_E6NA71	T	E	K	V	A	K	P	M	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	D	A	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q978E7	T	E	V	A	K	K	L	L	G	L	Y	A	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_Q6L0W0	T	E	V	A	K	K	Y	G	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_A4FZM1	T	D	V	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	T	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_A7I8R8	T	K	V	A	K	R	F	K	L	L	Y	H	A	A	G	Q	Q	D	L	L	L	A	E	A	F	T	G	D	I	R	E	L	L	G	P	G	V	A	E	M	E	F	F	E
UniRef90_A6UTE1	T	E	V	A	K	E	L	L	K	L	Y	G	A	G	Q	Q	D	L	L	L	L	S	E	G	F	T	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_H5SQD1	T	A	V	A	K	A	E	G	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	R	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_M7U0F4	T	E	K	A	K	E	L	L	G	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	A	F	S	G	N	V	K	G	M	G	P	G	V	A	E	M	E	F	F	E	
UniRef90_UPI00035F7E46	T	K	A	A	K	D	Q	G	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	E	S	F	A	G	N	V	R	G	M	G	P	A	V	A	E	M	E	F	F	E	
UniRef90_T0MKR3	T	A	Q	V	A	K	E	Q	G	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	A	F	S	G	N	V	K	G	M	G	P	A	V	A	E	M	E	F	F	E	
UniRef90_UPI0003B384B1	A	E	E	A	K	K	M	H	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	A	E	A	F	S	G	N	V	R	G	M	G	P	G	A	V	A	E	M	T	F	F	E
UniRef90_Q2LQY4	T	K	V	A	K	E	Q	G	L	L	Y	G	A	G	Q	Q	D	L	L	L	L	K	D	S	F	S	G	N	V	R	G	M	G	P	A	V	A	E	M	E	F	F	E	
UniRef90_R9TA35	T	K	V	A	K	E	M	K	L	L	Y	A	A	G	Q	Q	D	L	L	L	L	T	D	A	F	S	G	N	V	R	G	M	G	P	G	A	V	A	E	M	E	F	F	E
UniRef90_I4BZA2	A	D	V	A	K	E	G	L	L	Y	A	A	G	Q	Q	D	L	L	L	L	L	K	D																					

QUERY	130	140	150	160
UniRef90_A2BK38	R P S E P I I A F A A D K T E T P G G A F N L P L Y R I F A D P F N T A G L V I D P			
UniRef90_E1QTV0	R P S E P L V V F A A D K T E T P G G A F N L P F Y R I F A D P F N T A G L V I D P			
UniRef90_S6A569	R K S E P L V V F A A D K T E T P G G A W N F L Y K V Y A D P F N T A G L V I D P			
UniRef90_I0A1U2	R T S E P V V A F M A D K T E T P G G A F N L P F Y K I Y A D P F N T A G L V I D P			
UniRef90_B5IAB6	R K S E P I V A F M M D K T E T P G G A F N L P L Y R I F A D P F N T A G L V I D P			
UniRef90_E3GZ16	R P S D P V V V F C C D K T E T P G G A F N L P L F R I F A D P F N T A G L V I D P			
UniRef90_D9S0X7	R P S E P V I V F M A D K T E T P G G A W N L P L Y K M F A D P F N T A G L V I D P			
UniRef90_Q2RG86	R K S E P I V V F A A D K T E T P G G A W N L P L Y K M F A D P F N T A G L V I D P			
UniRef90_U6EBE5	R P S D P V V V F C C D K T E T P G G A F N L P L F R M F A D P F T T A G L V I D P			
UniRef90_D2RDW4	R P A E P I I V F M M D K T E T P G G A F N L P L F R M F A D P F N T A G L V I D P			
UniRef90_Q8TWS8	R P S E P I V V F C C D K T E T P G G A F N L P L F R M F A D P F N T A G L V I D P			
UniRef90_C6A543	R K S E P I V T F H M D K T E T P G G A F N L P L F R M F G D P F N T A G L V I D P			
UniRef90_C3MRD6	R P A E P V V V F M A D K T E T P G G A Y N L P L Y K I F A D P F N T A G L V I D P			
UniRef90_L0ABT5	R P A E P V V V F M A D K T E T P G G A F N L P L Y K I F A D P F N T A G L V I D P			
UniRef90_A5FQB0	R P S E P I I I F M A D K T S S G A W N L P L Y K M F A D P F N T A G L V I A E			
UniRef90_Q8RCX0	R K S E P V V I F I A D K T E T P G G A W N L P L Y K M F A D P F N T A G L I I D P			
UniRef90_D3DG54	R P S E P V I V F F A D K T A P S G A W N L P L Y E M F A D P M V C A G L V I D P			
UniRef90_Q2NGI0	R G S D P V F A Y C C D K T E T P G G A F N L P L F R M F A D P F N T A G L V I D P			
UniRef90_B115L9	R K S E P V I V L M A D K T E T P G G A W N L P L Y R I F A D P F N T A G L V I D P			
UniRef90_R9SJ68	R P S D P V I V F C C D K T E T P G G A F N L P L Y K M F A D P F N T A G L V I D P			
UniRef90_F8ACB1	R K S E P F I V Y F A D K T S P S A W N L A L Y E M F A D P M N T A G L V I D P			
UniRef90_UPI00036FA86C	R P S E P I I V F A A D K T E T P G G A W N L P L Y R I F A D P F C T P G L V I D P			
UniRef90_D8PEU2	R K S D P V L I F M A D K T E T A G A W N L P L Y K M F A D P F N T A G L V I A P			
UniRef90_E0SPU6	R P A E P V I V F M A D K T E T P G G A F N L P L F R V F A D P F N T A G L V I D P			
UniRef90_B8D642	R E A E P V I T F H A D K T S P G G A F N L P L F R V F A D P F N T A G L V I D P			
UniRef90_E8N0E8	R E S E P V I T F M A D K T S A G A W N L P L F R M F A D P F N T A G L V I D P			
UniRef90_F6BB66	R P S E P I V V F C C D K T D P A A F N L P L Y K I F A D P F N T A G L V F D P			
UniRef90_UPI00037416A2	R K S E P V A I F M M D K T E T P G G A F N L P I Y K I F A D P F N T A G L V I D P			
UniRef90_G7WRF4	R A A E P V V A F M M D K T E T P G G A F N L P I F R I F A D P F N T A G L V I D P			
UniRef90_A3CVU2	R G S D P I L V F M A D K T E T P G G A W N Y F L Y K I F A D P F N T A G L V I D P			
UniRef90_F4BZ11	R T A E P I I A F M M D K T E T P G G A F N L P I F K M F A D P F N T A G L I I D P			
UniRef90_UPI000381138E	R P S E P V I C L A D K T E T P G G A W N L P L Y K M F A D P F N T A G L V I D A			
UniRef90_M1RJF2	R P S E P V I V Y F A D K T S P S A W N L A L Y E M F A S P M N T A G L V I D P			
UniRef90_A5UUY1	R P S E P I I V F F A D K T S A G A W N L P L F R M F A D P F N T A G L V I D P			
UniRef90_A9BGJ9	R G S E T L V A F M M D K T E T P G G A F N F P L Y K I F A D P F N T A G L I I D P			
UniRef90_D7E6J1	R K S N P V F T F M M D K T E T P G G A F N L P M Y K I F A D P F N T A G L V I D P			
UniRef90_T0LQP2	R K S E P F I V Y M M D K T E T P G G A F N Y P I F K M F A D P F N T P G L V I D N			
UniRef90_E6NA71	R K S D P V I V F A A D K T E T P G G A W N L P L Y R I F A S P E N T A G L V I D P			
UniRef90_Q978E7	R P S E P F I V Y M M D K T E T P G G A F N L P I Y K M F A D P F N T P G L V I D D E			
UniRef90_Q6L0W0	R K S E P F I V Y M M D K T E T P G S F N Y P I Y K M F G D P F N T P G L V I D P			
UniRef90_A4FZM1	R P S E P V V V F C C D K T D P A A F N L P E Y R M F A D P F N T A G L V Y D P			
UniRef90_A7I8R8	R E S D P V L I F M A D K T G P G A W N F Y L Y K I F A D P F N T P G L V I D P			
UniRef90_A6UTE1	R P S E P V I V F C S D K T D P A A F N L P F Y R M F A D P F N T P G L V Y D K S			
UniRef90_H5SQD1	R P A E P F L F F A A D K T E T P G G A F N L P L Y L A F A D P M Y C S G L I L S S			
UniRef90_M7U0F4	R K A E P I V A F M M D K T E T P G G A F N F P I F K V I F A D P F N T A G L I L S P			
UniRef90_UPI00035F7E46	R P A E P F L F F A A D K T D P G G A F D L P L Y L A F A D P M Y N A G L L I L S P			
UniRef90_T0MKR3	R P S E P S F L F F A A D K T E T P G G A Y N L P L Y L S F I D P M H C P G L M L S			
UniRef90_UPI0003B384B1	R K S E P I I A L L A D K T E T P S A F N L P L A R I F A D P F T T T G L V I D T			
UniRef90_Q2LQY4	R P N E P F L F F A A D K T D P G G A Y N L P L Y L A F T D P M Y N S G L I L S P			
UniRef90_R9TA35	R G A E P I V E F M A D K T E T P S S Y S F P L C K V I F C D P F T T T G L V I D P			
UniRef90_I4BZA2	R K S E P F L I F A A D K T D P G G A F N L P L Y L A F C D P M Y C S G L I L S P			
UniRef90_R1E5N5	R S P E S I V F A A D K T E T S G G A F N Y P L F Q M F A N P F N T P G L V I D P			
UniRef90_UPI0003682C78	R P N E P F V F F A A D K T D P G G A Y N L P F Y L A F A D P M Y C A G L I L S P			
UniRef90_M1PP21	R P S E P F L F F M A D K T E T P G G A Y N L P F Y L S Y A D P M Y N P G L I L S P			
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 K L H S A G G F K F F E I W D L I E H K Q V F L N S A P E E D S Y D L L L A L L I G T T T G R Y F  
 S M H H Q G G F K F F E W D I M E H K K V V M S H S C P E E E M Y D L L L A L L I G G S A K S R Y  
 S L H H K G Y F F F E V Y D V I T E H K K R V M M S C P E E E M Y D L L L A L L I G G S A K S R Y  
 K M H H Q G G F K F F E V L D T I E N K K V I V F S C P E E E L Y D L L L V F L I G A A N G R Y  
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 S M H H Q G G F F F F E V H D V I K E H K K R V L K S C P E E E M Y D L L L A L L I G G Q T Q R Y  
 N M H M G F F F F E V W D I D E H K K V I L N S P E E E L Y D L L L A L I G G A K S R Y  
 T M H E G Y K F F E V L D V Y E G E S I L L N T P E E E T Y D L L L A L I G T T P S S R Y  
 R M H H N G G F I F F E V L D V Y E G K G I L D L S T P E E N E L I Y D L L L A L I G T T P S S R Y  
 N M H D G G F F F F E V H D V I K E H K K R V I L K S C P E E E M Y D L L L A L L I G G A T P S R Y  
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 T L H H D G G F R F F E V L D L V I E S W S V L V K T P E E S D L Y D L V A L L I G T T V G R Y  
 T M H H E G G F R F F E I W D V I E H K K A I M L E A P E S D L Y D I L A M I G G S K S R Y  
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QUERY	A	Q	S	G	L	P	A	V	G	E	V	L	L	E	A	F	A	H	P	H	L	V	H	G	W	M	R	G	S	H	A	G	P	L	M	P	V	S	R	F	L	S		
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UniRef90_S6A5U9	A	Q	S	H	G	L	P	A	T	G	E	V	L	L	E	A	F	A	F	P	H	L	V	A	G	W	M	R	G	S	H	T	G	P	L	M	P	V	S	L	K	D		
UniRef90_I0A1U2	A	Q	S	G	F	P	A	L	G	E	V	L	L	E	A	F	A	F	P	H	L	V	A	G	W	M	R	G	S	H	N	G	P	L	M	P	V	S	L	K	D			
UniRef90_B5IAB6	A	Q	S	G	C	L	P	A	L	G	E	V	L	L	E	A	F	A	F	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	S	L	K	D		
UniRef90_E3GZ16	A	Q	S	G	F	P	A	T	G	E	V	L	L	E	A	F	A	Q	P	H	L	V	G	G	W	M	R	G	S	H	N	G	P	L	M	P	V	S	S	E	K	D		
UniRef90_D9S0X7	C	Q	S	G	L	P	A	V	G	E	A	L	L	E	A	F	A	N	P	H	L	V	A	G	W	M	R	G	S	H	F	G	P	L	M	P	V	V	S	C	N	G	D	
UniRef90_Q2RG86	C	Q	S	G	L	P	A	V	G	E	A	L	L	E	A	F	A	N	P	H	L	V	A	G	W	M	R	G	S	H	I	G	P	L	M	P	V	S	G	L	D	K	D	
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UniRef90_D2RDW4	A	Q	S	G	L	P	A	V	G	E	V	L	L	E	A	F	A	F	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	F	R	Y	E	
UniRef90_Q8TWS8	C	Q	S	G	F	P	A	V	G	E	V	L	L	E	A	F	T	F	P	H	L	V	A	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	E	E	E	Y	
UniRef90_C6A543	A	Q	S	G	L	P	A	L	G	E	V	L	L	E	A	F	A	F	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	P	L	K	Y	E		
UniRef90_C3MRD6	A	Q	S	H	G	L	P	A	L	G	E	V	L	L	E	A	F	T	V	P	H	L	V	P	G	W	M	R	G	S	H	Y	G	P	L	M	P	V	V	S	L	K	D	
UniRef90_L0ABT5	A	Q	S	G	F	P	A	L	G	E	V	L	L	E	A	F	T	F	P	H	L	V	E	G	W	M	R	G	S	H	A	G	P	L	M	P	V	S	G	V	K	D		
UniRef90_A5FQB0	A	Q	G	A	F	P	A	V	G	E	V	L	L	E	A	F	T	Q	P	H	L	V	E	G	W	M	R	G	S	H	A	G	P	L	M	P	V	S	T	V	E	D		
UniRef90_Q8RCX0	C	Q	N	G	L	P	A	V	G	E	V	L	L	E	A	F	A	N	P	H	L	V	F	E	W	M	R	G	S	H	T	G	P	M	I	P	V	S	L	E	D			
UniRef90_D3DG54	A	Q	A	G	F	P	A	V	G	E	T	S	E	P	F	A	R	P	H	L	V	E	G	W	M	R	G	S	H	N	G	P	L	M	P	V	S	S	F	K	N	D		
UniRef90_Q2NGI0	S	Q	S	G	F	P	A	V	G	E	L	S	E	P	F	A	F	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	S	S	Q	A	D			
UniRef90_B115L9	C	Q	S	G	F	P	A	V	G	E	V	L	L	E	A	F	A	R	P	H	L	V	S	G	W	M	R	G	S	H	S	G	P	L	M	P	V	V	S	S	E	E	Y	
UniRef90_R9SJ68	A	Q	S	G	F	P	A	A	G	E	C	N	E	A	F	A	F	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	S	E	E	Y		
UniRef90_F8ACB1	C	Q	S	G	F	P	A	V	G	E	A	L	L	E	A	F	A	R	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	S	E	K	E	Y
UniRef90_UPI00036FA86C	A	Q	R	G	L	P	A	V	G	E	Y	L	L	E	A	F	A	Y	P	H	L	V	S	G	W	M	R	G	S	H	V	G	P	L	M	P	V	V	S	L	K	Y	E	
UniRef90_D8PEU2	A	Q	Q	N	F	P	A	V	G	E	V	L	D	A	F	F	R	P	H	L	V	I	E	G	W	M	R	G	S	H	Y	G	P	L	M	P	V	V	S	V	K	Q	N	
UniRef90_E0SPU6	A	Q	S	G	F	P	A	V	G	E	V	I	E	A	F	A	F	P	H	L	V	A	G	W	M	R	G	S	H	H	G	P	L	M	P	V	V	S	Q	R	Y	E		
UniRef90_B8D642	A	Q	S	H	G	L	P	A	V	G	E	V	L	L	E	A	F	S	F	P	H	L	V	A	G	W	M	R	G	S	H	H	G	P	L	M	P	V	V	S	M	R	Y	E
UniRef90_E8N0E8	S	Q	G	K	F	P	A	V	G	E	V	L	L	E	A	F	T	M	P	H	L	V	E	G	W	M	R	G	S	H	Y	G	P	L	M	P	V	V	S	F	E	R	Q	
UniRef90_F6BB66	A	Q	S	G	F	P	A	V	G	E	V	L	L	E	A	F	T	A	N	P	H	L	V	A	G	W	M	R	G	S	H	Y	G	P	L	M	P	V	V	S	G	E	E	D
UniRef90_UPI00037416A2	A	Q	A	G	L	P	A	M	G	E	V	L	L	E	A	F	A	Y	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	E	K	D		
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UniRef90_A3CVU2	A	Q	S	G	F	P	A	V	G	E	V	I	D	P	F	R	T	P	H	L	V	A	G	W	M	R	G	S	H	H	G	P	F	M	V	G	V	C	D					
UniRef90_F4BZ11	S	Q	S	G	L	P	A	L	G	E	V	L	L	E	A	F	S	I	G	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	C	S	F	D	T		
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UniRef90_M1RJF2	T	Q	S	G	F	P	A	V	G	E	A	L	L	E	A	F	A	R	P	H	L	V	E	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	G	F	E	D	
UniRef90_A5UUY1	A	Q	G	E	F	P	A	V	G	E	V	L	L	E	A	F	T	M	P	H	L	V	E	G	W	M	R	G	S	H	Y	G	P	L	M	P	V	C	R	V	G	D		
UniRef90_A9BGJ9	A	Q	S	G	L	P	A	L	G	E	V	L	L	E	A	F	S	H	V	P	H	L	V	S	G	W	M	R	G	S	H	N	G	P	L	M	P	V	V	S	F	K	D	
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UniRef90_E6NA71	A	Q	A	G	F	P	A	V	G	E	V	L	A	A	F	A	T	P	F	L	V	S	G	W	M	R	G	S	H	R	G	P	L	M	P	V	V	S	F	R	E	D		
UniRef90_Q978E7	I	Q	S	G	L	P	A	A	G	E	S	L	E	A	F	A	F	P	Y	F	V	S	G	W	M	R	G	S	F	N	G	P	L	M	P	V	V	S	M	K	D			
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UniRef90_A4FZM1	A	Q	S	G	F	P	A	V	G	E	V	L	L	E	A	F	A	N	P	H	L	V	A	G	W	M	R	G	S	C	H	F	G	P	L	M	P	V	G	E	E	D		
UniRef90_A7I8R8	A	E	S	G	F	P	A	S	M	G	E	V	L	L	E	A	F	T	A	N	P	H	L	V	A	G	W	M	R	G	S	H	N	G	P	L	L	P	V	G	L	C	D	
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UniRef90_H5SQD1	V	Q	S	Q	F	P	A	T	G	E	V	L	A	P	F	E	I	G	H	Y	V	A	G	D	C	R	G	S	H	N	V	P	L	M	P	V	V	S	K	E	D			
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UniRef90_Q2LQY4	V	Q	G	T	F	P	A	T	G	E	V	L	L	A	P	F	N	I	G	H	F	V	A	G	F	M	R	G	S	H	T	G	P	L	M	P	V	V	S	K	M	E		
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UniRef90_R1E5N5	A	Q	K	G	F	P	A	V	G	E	V	L	L	E	A	F	S	F	P	Y	M	V	N	G																				

QUERY	VDPERR	IA	290	KMT	TRFD	300	PKV	GAL	GFQ	310	HEGY	LEGG	320
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UniRef90_D2RDW4				S	K	C	T	R	F	D	G	P	P
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UniRef90_A5FQB0	S	T	P	T	R	F	D	G	P	P	P	R	V
UniRef90_Q8RCX0	A	V	P	T	R	F	D	G	P	P	P	R	V
UniRef90_D3DG54	A	T	P	T	R	F	D	G	P	P	P	R	V
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UniRef90_A5UUY1	A	H	P	G	S	R	F	D	G	P	P	P	R
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UniRef90_D7E6J1	A	T	P	T	R	F	D	G	P	P	P	R	V
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UniRef90_A0RV30				N	S	P	A	S	I	N	F	C	I
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UniRef90_M1E4F8	S	S	N	A	L	A	F						



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F D D P A F D Y V R Q T A A Q Q I A D Y M R R H G P F F M P H R L G P E E M E Y T A  
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lupas\_28  
jnet  
conf  
sol25  
sol5  
sol0  
jhmm  
jpssm

