

QUERY	1	10	20	30	40																																			
UniRef90_T2MEL9	E	L	P	K	A	A	V	E	R	R	F	R	Q	G	V	G	E	R	R	L	V	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A
UniRef90_R4W840	E	L	P	F	A	P	V	D	T	I	R	R	R	N	A	G	F	D	R	L	V	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A
UniRef90_UPI00042B727E	E	M	P	I	A	N	V	I	R	I	M	R	R	N	A	G	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_G2MN34	E	L	P	F	A	P	V	D	D	L	I	R	R	N	A	D	G	L	R	V	V	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A
UniRef90_W4ZH21	E	L	P	R	A	P	V	D	D	L	I	R	R	N	A	D	G	L	R	V	V	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A
UniRef90_U5DFR7	M	P	I	A	N	V	I	R	I	M	R	R	N	A	G	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_M4DL28	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	A	N	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	T
UniRef90_M8AKG3	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	A	N	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	T
UniRef90_UPI0002BC8ECD	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	A	N	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	T
UniRef90_C3ZFY4	L	P	R	A	A	I	N	K	L	I	K	E	L	V	P	N	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_S8E805	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	A	N	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	T
UniRef90_A9P3X9	M	P	I	A	N	V	I	R	I	M	R	K	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_UPI000234FD0E	L	P	K	S	T	M	F	K	I	I	K	E	M	L	P	D	V	R	V	V	A	R	D	T	Q	D	L	L	V	E	C	C	V	E	F	I	N	L	L	
UniRef90_B9S9S1	M	P	I	A	N	V	I	R	I	M	R	R	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_W5G8C1	M	P	I	A	N	V	I	R	I	M	R	R	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_Q54WV0	L	P	I	A	N	V	I	R	I	M	K	K	A	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_B5KMS9	M	P	I	A	N	V	I	R	I	M	R	K	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_K7KWC0	L	P	R	A	S	I	N	K	M	I	K	E	L	V	P	S	V	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_N6TAQ7	L	P	R	A	S	I	N	K	M	I	K	E	L	V	P	S	V	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_L5K6D6	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	S	V	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_C1BVM2	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	S	V	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_UPI0003BB874F	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	S	V	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_P49592	L	P	K	A	T	M	T	K	I	I	K	E	M	L	P	D	V	R	V	V	A	R	D	T	Q	D	L	L	V	E	C	C	V	E	F	I	N	L	L	
UniRef90_UPI0003511241	L	P	K	A	T	M	T	K	I	I	K	E	M	L	P	D	V	R	V	V	A	R	D	T	Q	D	L	L	V	E	C	C	V	E	F	I	N	L	L	
UniRef90_M0TWD6	L	P	K	S	T	M	F	K	I	I	K	E	M	L	P	D	V	R	V	V	A	R	D	T	Q	D	L	L	V	E	C	C	V	E	F	I	N	L	L	
UniRef90_D8RXB7	L	P	I	A	N	V	S	R	I	M	K	K	V	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	
UniRef90_K7LHH3	L	P	I	A	N	V	S	R	I	M	K	K	V	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	
UniRef90_UPI0001CBADA1	I	P	R	A	A	I	N	K	M	I	K	E	L	V	P	N	T	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_V7CQX4	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	N	T	R	V	V	A	N	D	S	R	E	T	V	L	N	C	C	T	E	F	H	L	I	A	
UniRef90_U1N995	E	L	P	F	A	P	V	D	S	L	I	R	A	Q	A	G	D	L	R	V	V	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A
UniRef90_H2XR04	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	Q	V	R	V	V	S	N	E	A	R	E	L	V	A	C	C	N	E	F	I	H	L	V	S	
UniRef90_UPI00032AA406	L	P	I	A	N	V	S	R	I	M	K	K	A	L	P	S	N	K	I	S	K	E	A	K	D	T	M	Q	E	C	C	V	E	F	I	S	F	I	T	
UniRef90_M5KXK8	L	P	I	A	N	V	S	R	I	M	K	K	A	L	P	S	N	K	I	S	K	E	A	K	D	T	M	Q	E	C	C	V	E	F	I	S	F	I	T	
UniRef90_G5C877	I	P	R	A	A	I	N	K	M	I	K	E	L	V	P	S	V	W	V	V	T	N	D	A	R	E	L	V	N	C	C	T	E	F	H	L	I	F		
UniRef90_UPI000359E2DA	L	P	R	A	A	I	N	K	M	I	K	E	L	V	P	S	V	W	V	V	T	N	D	A	R	E	L	V	N	C	C	T	E	F	H	L	I	F		
UniRef90_D7UAH8	M	P	I	A	N	L	T	R	V	M	R	R	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_D8RRZ5	L	P	I	A	N	V	S	R	I	M	K	K	A	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	
UniRef90_K3ZDG1	L	P	I	A	N	V	S	R	I	M	K	K	A	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	
UniRef90_Q76FX3	M	P	I	A	N	V	I	R	I	M	R	K	S	I	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_F0XUM7	L	P	L	A	T	V	Q	K	I	V	T	E	L	P	G	L	A	F	S	K	D	A	R	D	L	L	I	E	C	C	V	E	F	I	T	L	I	S		
UniRef90_B0WXC5	L	P	K	A	T	V	T	K	L	I	T	E	M	L	P	D	V	A	K	I	S	K	E	A	K	D	R	D	L	L	I	D	C	C	V	E	F	I	H	L
UniRef90_W4KET5	L	P	K	A	T	V	T	K	L	I	T	E	M	L	P	D	V	A	K	I	S	K	E	A	K	D	R	D	L	L	I	D	C	C	V	E	F	I	H	L
UniRef90_B9I9U4	L	P	K	A	T	V	Q	K	I	I	T	E	L	P	G	Q	T	F	S	K	D	A	R	D	L	L	M	E	C	C	V	E	F	I	T	L	I	S		
UniRef90_UPI000455DDEC	L	P	K	A	T	V	Q	K	I	I	T	E	L	P	G	Q	T	F	S	K	D	A	R	D	L	L	M	E	C	C	V	E	F	I	T	L	I	S		
UniRef90_G2XNY8	M	P	I	A	N	V	I	R	I	M	R	R	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_F6LC75	M	P	I	A	N	V	I	R	I	M	R	R	V	L	P	H	A	K	I	S	S	D	A	K	E	E	V	L	N	C	C	T	E	F	H	L	I	A		
UniRef90_F6H4A1	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E	V	S	E	F	I	S	F	I	T	
UniRef90_W5JVY4	L	P	I	A	N	V	S	R	I	M	K	R	G	L	P	N	A	K	I	S	K	E	A	K	E	T	V	Q	E	E										

QUERY N A A K S V L D A S G K K T L M E E H L K A L A D V L M V E G V I E D Y D G E L F 80
UniRef90_T2MEL9 S E A N E I C N K S Q T K K K T L S P E H L A A L E S L G F Q S Y I Q D V D N G V Y Q
UniRef90_R4W840 V D A A E H A T A R D G R K K T L M A E E D V L W A M G K L G F E A T F D D K N A L E L L
UniRef90_UPI00042B727E U I A N E R R C Q Q R E K R K T I T A E D L Q A L D S L G F G D Y L Q D E Y K S V L E
UniRef90_G2MN34 V Q A A E R A T A D G R K K T L M A S E D F G V E R V V D R E D V E L L
UniRef90_W4ZH21 S E A N D R C C N K Q A K K T I S A P E H L Q A L D S L G F G D Y L Q D E Y K S V L E
UniRef90_U5DFR7 S E A S D K C C Q R E K R K T I N G D D L W A M A T L L G F F E E Y I E P L K
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UniRef90_UPI0002BC8ECD S E A S D K C C Q R E K R K T I N G D D L I W S L T T L G F F E D Y I E P L K
UniRef90_C3ZFY4 S E A N E I C T K E G K K T I S P E H I L A A L E S L G F F G S Y T E D P L K
UniRef90_S8E805 S E A S D K C C Q R E K R K T I N G D D L W A M A T L L G F F E D D Y I E P L K
UniRef90_A9P3X9 S E A S D K C C Q R E K R K T I N G D D L W A M S K L L G F F D D Y I E P L K
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UniRef90_B9S9S1 G G E A N D R R C C Q R E Q R K T I T A E D V L W A M G K L G F D D D Y V E P L T
UniRef90_W5G8C1 G G E A N E R R C C Q R E Q R K T I T A E D L W A M S R L L G F F D D D Y V E P L T
UniRef90_Q54WV0 S E A S D K C C Q R E K R K T I N G E D I I A A M V S L G F F E N Y V E P L K
UniRef90_B5KMS9 G G E A N E R R C C Q R E K R K T I T A E D L W A M S K L L G F F D D D Y I E P L T
UniRef90_K7KWC0 S E S N E V C N K Q E E R R T I A P E H V L K A L G V L G F G E Y I E P L T
UniRef90_N6TAQ7 S E A N E I C N Q L N K K T I N A E H V L M A L D K L L G F G D Y H A E A
UniRef90_L5K6D6 S E A N E I C N K S E K K T I S A P E H I Q A L E S L G F G S Y I S E V K E V L Q
UniRef90_C1BVM2 S E S N D I C N N Q S A K K T I S A D H V L S A L E T L G F G S Y I S E V R E
UniRef90_UPI0003BB874F S E A K E I C N N R S A K K N I S P E H I Q A L E S L L G F G S Y I S E V R E
UniRef90_P49592 S E S N D V C N K K E K R K T I A P E H L K A L Q V L G F G E Y I E V Y A A Y E
UniRef90_UPI0003511241 S E A S D K C C M K E K R K T I N G D D L I W S L G T L G F F E Y V E P L K
UniRef90_M0TWD6 S E S N E V C N R E D K K T I A P E H L K A L E V L G F F E Y I E P L K
UniRef90_D8RRZ5 G E A S D K C C K R E K R K T I N G D D L L W A M G T L G F F E D Y I E P L K
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UniRef90_V7CQX4 G E A S D K C C Q R E K R K T I N G D D L L W A M T T L G F F E N Y V G P L K
UniRef90_U1N995 I S A A E Q A A T D N R K T L M A E D F G V K Q V V S R R E V T L
UniRef90_H2XR04 S E A N E I C N K N T K K T I M P E H L E A L E A L G F G T Y V T E C K E V L A
UniRef90_UPI00032AA406 S E A S E K C C Q K E K R K T I N G D D L L W A M A T L L G F F E D Y I E P L K
UniRef90_M5KX8 S E A S D K C C Q K E K R K T I N G D D L L W A M A T L L G F F E D Y I E P L R
UniRef90_G5C877 S E V N E I C N K S E K K T I S P E Y I Q A L E S L G F G S Y I S K V K E L L Q
UniRef90_UPI000359E2DA S E A N D V C V K Q N K T I S P D H V V A A L D S L G F G E Y K S E A K
UniRef90_D7UAH8 S E A N D R C C H H E L R K T I T A E D V I A A M S K L L G F F D D Y I D P L T
UniRef90_D8RRZ5 S E A S D K C C Q R E K R K T I N G D D L L W A M S T L G F F E E Y L E P L K
UniRef90_K3ZDG1 S E A S D K C C M K E K R K T I N G D D L L W S L G T L G F F E E Y V E P L K
UniRef90_Q76FX3 S E A N Y R C Q K E Q R K T I T A E D L W A M S S L L G F F D D Y V E P L T
UniRef90_F0XUM7 S E A N E I C S E K E A K K T I A C D H I R A L D Q L G F A E Y I G A V V E A A Q
UniRef90_B0WXC5 S E A S E R C C H L E K R K T I N G E D I L C A M Y T L G F F D N Y V D P L K
UniRef90_W4KET5 S E A N E I C Q E S E K K T I A P E H I L G A L R R L G F F E T S E V E
UniRef90_B9I9U4 G E A S D K C C H K E K R K T V N G D D I W A L A S L L G F F D D Y S E P L K
UniRef90_UPI000455DDEC S E A N E I C E Q E S K K T I A P E H I I N A L K R L G F D S F T A E
UniRef90_G2XNY8 S E A N E I C S E K E S K K T I A C E H I K A L E Q L G F S E Y V K D V D V A S
UniRef90_F6LC75 G E A N E R C C Q R E Q R K T V T A D D V L W A M G K L G F D N Y V E P L S
UniRef90_F6H4A1 G E A S D K C C Q R E K R K T I N G D D L L W A M T M L G F F E N Y V G P L K
UniRef90_W5JVY4 S E A S D R C C H M E K R K T I N A E D I C S M Y A L G F F E N Y I D P L K
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UniRef90_UPI0004415FD8 S D A N E I C E S E S K K T I A P E H I I S S L K R L G F D E Y V P E V Q
UniRef90_W5IB03 G E A N E R C H M E H R K T V N A E D I V W A L N R L G F F D D Y V P L
UniRef90_G0SBK8 S E S N D V C S R D D K K T I T A P E H I R A L Q D L L G F K E Y V I E E V Y A A Y E
UniRef90_W5CAL8 G E A N E R C C H T E R R K K T I V T S E D I L W A M S R L L G F F D D Y V A P G A
UniRef90_K7V8D5 S E A S E K C C Q Q E K R K T V N G E D I L A M S S L L G F F E N Y A E A L K
UniRef90_G2Q338 S E A N E I C E K E A K K T I A A E H I T A L Q T L L G F F E N Y L S E V Q
UniRef90_U9T948 S E A N D L S E K E A K K T I A C E H V E R A L R D L G F G D Y I P E V L
UniRef90_A1DJV6 A E A N E R C Q R E Q R K T V T A E D L W A M E K L L G F F D D Y A H P L S
UniRef90_U1NCV5 S E A N E R C Q R E Q R K T V T A E D L W A M E K L L G F F D D Y A H P L S
UniRef90_V5FSR6 S E A N E I C N Q S N K K K T I N A E H V L T A L D R L G F S D Y T E
UniRef90_H9J9J9 S E A N E I C C N Q Q S K K K T I N A E H V L Q A L E K L L G F F G D Y N A E A E
UniRef90_E2CA04 S E A S E R C C H Q E K R K T I N G E D I L F A M S T L L G F D M Y V E P L K L Y L
UniRef90_W5LFW4 S E A S D R C C T R E K R K T I N G E D I L L Y S M E K L G F F N D Y I E P L T
UniRef90_W4IGT0 S E A N D I C G R E Q R K T I A A E H I K A L T E L L G F F S D Y T E Q
UniRef90_Q55DJ5 S E A A E R C C Q A E K R K T I N G E D I L C A M N T L G F F D N Y V E P L K
UniRef90_G7YA03 S E A A E R C C Q N E K R K T I N G E D L W A M S N L L G F F D N Y V D P L K
UniRef90_U6IV57 S E A S D R C C F Q E K R K T I N G E D I L A M S N L L G F F D N Y V E P L K
UniRef90_J9JT98 S E A S D K C C S A E K R K T I N G D D L L Y A M R V L G F D N Y E E L L R V Y L
UniRef90_R9P1K0 S E A S D K C C Q K E K R K T I N G D D L L S A L A T L G F F E D Y I E P L K
UniRef90_K4BRW4 S E A S D K C C Q K E K R K T I N G D D L L S A L A T L G F F E D Y I E P L K
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