

QUERY	1	10	20	30	40																																										
UniRef90_UPI0003C28926	V	E	S	L	C	A	D	I	T	R	T	S	G	K	Q	R	N	W	T	W	G	P	G	G	Q	G	A	I	L	L	V	N	C	C	D	R	D	N	E	P	T	S	S				
UniRef90_M3YXQ1	V	E	S	L	S	E	A	D	I	T	R	T	S	G	K	Q	R	N	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	N	H	P	K	S	S		
UniRef90_UPI0003C81446	V	E	S	L	S	A	D	I	T	R	T	S	G	K	Q	R	N	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	D	S	S	
UniRef90_G3VWQ0	I	E	S	L	D	V	D	A	D	R	D	S	G	K	K	A	S	W	T	W	G	P	D	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	E	D	I	P	W	L	L		
UniRef90_M7AV39	I	N	V	S	L	D	A	D	I	T	R	T	S	G	K	M	V	K	S	W	W	G	P	E	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	T	P	G	A	L
UniRef90_UPI0003D6FEC9	I	E	S	L	D	V	D	A	D	R	D	S	G	K	K	A	S	W	T	W	G	P	E	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	T	P	W	L	L	
UniRef90_H0XBE7	V	E	S	L	C	A	D	I	T	S	R	T	D	G	K	Q	R	T	W	T	W	G	P	G	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S	
UniRef90_UPI000441E397	I	G	I	S	L	D	V	D	A	D	R	D	S	G	K	R	K	A	T	W	T	W	G	P	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	W	S	L
UniRef90_F7D1N6	V	D	I	S	L	D	A	D	A	D	R	D	S	G	K	K	N	N	W	T	W	G	P	K	G	L	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	L	D	G	S
UniRef90_UPI0004627612	V	A	I	S	L	D	V	D	A	D	R	D	S	G	K	K	A	S	W	A	W	G	P	E	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	F	S	S	
UniRef90_T0NST6	I	E	S	L	D	V	D	I	T	R	T	S	G	H	K	K	N	W	V	W	G	P	S	G	W	G	A	I	L	L	V	N	C	C	C	S	P	A	D	M	G	S	S	S			
UniRef90_T0NST6	I	E	S	L	D	V	D	I	Y	R	S	R	S	G	H	K	K	N	W	V	W	G	P	S	G	W	G	A	I	L	L	V	N	C	C	C	S	P	A	D	M	G	S	S	S		
UniRef90_UPI0003346C80	I	E	S	L	S	A	D	I	T	R	T	S	G	K	V	K	T	W	T	W	G	P	H	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	R	S	S		
UniRef90_U3J616	I	E	S	L	D	V	D	A	D	R	D	S	G	K	K	A	S	W	T	W	G	P	E	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	L	S	S		
UniRef90_UPI0003F110DE	I	E	S	L	L	A	D	I	T	R	T	S	G	K	V	K	T	W	T	W	G	P	R	R	Y	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S		
UniRef90_UPI00046B462A	V	E	I	A	L	H	A	D	V	T	R	T	G	N	V	K	T	W	T	W	G	P	Q	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S		
UniRef90_UPI00042C6AE7	V	E	I	S	L	S	A	D	I	T	R	T	S	G	K	Q	R	T	W	T	W	G	P	H	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S	
UniRef90_H0V4U7	V	E	I	S	L	L	A	D	V	T	H	S	G	K	V	K	S	W	T	W	G	P	S	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S		
UniRef90_UPI0003D0E7F3	I	G	I	S	L	D	V	D	A	D	R	D	S	G	R	K	A	T	W	T	W	G	P	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	L	L	L	
UniRef90_L5K185	U	N	I	S	L	S	T	D	I	T	R	T	S	G	K	A	K	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	L	K	S	S	
UniRef90_I3M1X0	V	E	I	S	L	Q	A	D	I	T	R	T	S	G	K	A	K	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	K	S	S	
UniRef90_W5M555	I	E	S	L	D	V	D	A	D	R	D	S	G	H	K	A	S	W	K	W	G	P	N	G	H	G	A	I	L	L	V	N	C	C	C	D	S	E	W	V	Y	K	S	S			
UniRef90_UPI00045D943D	V	E	I	S	L	H	T	D	I	T	R	T	S	G	K	V	K	P	W	T	W	G	P	H	R	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	T	S	C	
UniRef90_UPI000328D438	V	D	I	A	L	D	C	D	L	R	R	E	G	R	K	K	R	Q	W	V	W	G	P	D	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	D	P	S	C	S	
UniRef90_F1SUR0	V	E	I	S	L	S	A	D	I	L	A	R	T	S	G	K	Q	R	S	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	D	S	P	E	S	S	
UniRef90_K7FP61	I	D	V	S	L	D	A	D	I	T	R	T	S	G	K	K	R	E	W	T	W	G	P	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	D	P	K	S	S	
UniRef90_Q02849	V	D	I	T	L	D	C	D	L	N	C	E	G	R	Q	D	R	W	V	W	G	P	S	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	S	M	S	S	S		
UniRef90_G3UH33	V	Y	I	S	L	D	V	D	T	G	R	T	S	G	K	K	T	W	R	W	G	P	E	G	Y	G	A	I	L	L	V	N	C	C	C	D	R	D	S	L	T	S	S	S			
UniRef90_G3TVM1	V	E	I	S	L	L	T	D	I	T	R	T	S	G	K	V	K	T	W	T	W	G	P	H	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	L	S	S	
UniRef90_UPI0003318D5B	V	D	I	A	L	D	C	D	L	N	C	E	D	R	K	D	S	W	V	W	G	P	S	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	D	V	S	C	S		
UniRef90_UPI0002C657C7	V	E	I	S	L	S	A	D	I	L	T	R	T	S	G	H	V	K	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	Q	D	D	P	M	S	S	S	
UniRef90_UPI0003C257F3	V	S	V	S	L	D	T	D	T	N	R	T	S	G	E	K	T	K	W	T	W	G	P	D	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	D	L	L	T	C	
UniRef90_G3VER6	D	I	S	L	D	T	D	M	N	C	N	G	K	K	R	Q	W	V	W	G	P	G	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	D	L	G	T	C	S		
UniRef90_UPI00027FA47E	V	E	I	S	L	C	A	D	I	T	R	T	S	G	K	V	K	P	W	S	W	G	P	G	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	N	P	K	S	S			
UniRef90_UPI0003332E92	V	E	I	S	L	C	T	D	V	T	R	T	S	G	R	G	K	T	W	T	W	G	P	C	Q	G	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	R	S	S	
UniRef90_UPI0003954DFE	V	E	S	L	D	V	D	V	D	W	R	S	R	G	R	V	K	S	W	T	W	G	P	D	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	S	P	G	A	S	
UniRef90_UPI0003F1857C	I	D	I	S	L	D	C	D	L	N	C	E	G	R	K	R	Q	W	V	W	G	P	S	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	D	P	S	Y	F	S			
UniRef90_UPI00033476E1	V	D	V	S	L	D	V	D	S	A	R	T	S	G	K	K	A	T	W	R	W	G	P	E	G	H	G	A	I	L	L	V	N	C	C	C	D	Q	D	D	N	V	R	F	L		
UniRef90_UPI000383F052	I	E	S	L	D	V	D	A	D	R	D	S	G	K	K	A	S	W	T	W	G	P	E	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	R	D	T	P	W	L	L		
UniRef90_S6BNL5	I	G	I	S	L	D	V	D	A	D	Q	D	S	G	N	K	A	S	W	T	W	G	P	E	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	S	P	L	S	S			
UniRef90_UPI00032B19A8	V	E	I	S	L	H	S	D	V	S	R	T	S	G	K	Q	R	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	D	P	K	T	A	S		
UniRef90_UPI00042AEA97	V	E	I	S	L	S	T	D	V	T	R	T	S	G	K	Q	S	T	W	T	W	G	P	R	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	K	D	N	P	T	S	S	
UniRef90_Q9Z184	V	D	I	T	L	D	C	D	M	N	C	A	D	R	K	R	Q	W	V	W	G	P	D	G	Y	G	A	I	L	L	V	N	C	C	C	D	R	D	N	V	D	S	S	S			
UniRef90_UPI0004438A1F	V	E	I	S	L	H	A	D	V	T	R	T	S	G	K	M	K	A	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	D	N	S	K	S	S	
UniRef90_F1NP39	V	D	I	S	L	D	A	D	T	G	R	N	S	G	K	A	T	W	T	W	G	P	D	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	D	C	D	P	K	S	S		
UniRef90_E1BCN3	V	E	I	S	L	S	A	D	I	L	S	R	T	S	G	K	R	A	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	D	N	P	N	S	S		
UniRef90_F7G020	V	D	I	C	L	D	A	D	I	T	R	T	S	G	K	K	R	A	W	T	W	G	P	R	G	H	G	A	I	L	L	V	N	C	C	C	D	R	D	D	G	P	Q	A	S		
UniRef90_UPI0002C46258	V	E	I	S	L	R	T	D	I	L	S	R	A	A	K	V	K	T	W	T	W	G	P	R	G	Q	G	A	I	L	L	V	N	C	C	C	D	R	D	K							

QUERY S A M D N C E D D E V L D S E D L Q D M S L M T L S T K T P K D F F T N H T L V L L  
UniRef90\_UPI0003C28926 E T M D N E D N S V L Q T S K D L R Q D M S L M T L S R N T K T P P A D V F F A N H K L V L L  
UniRef90\_M3YXQ1 S T M D C K D D D D Q V F D S Q D D L L Q Q D M S P M T L S N T K T P P R D F F F S K H R Q L L M L  
UniRef90\_UPI0003C81446 S T V D C C T D D D Q V F D S Q D D L L Q Q D M S Q V T L S R T K T P P R D F F F S K H R Q L L M L  
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UniRef90\_F7D1N6 A K R D N C Q D V L F G S L E D L L E D M S L M I L L R T Y G G P S A L F P D D Y K L V L L  
UniRef90\_UPI0004627612 V T E D C Q D D K V F S K E D L L E D M S R M M L L R T Q G G P S R L F P T G Y E M V L L  
UniRef90\_T0NST6 Q L V D K K S G N V L F M E E I K G L S Q M T L K V E G G P S C V L K K Y R L V L L  
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UniRef90\_UPI00046B462A S T V D C V D E E A F D S K D L L Q D M S L M T L L S T K T P P R D F F F T R H R Q L V L L  
UniRef90\_UPI00042C6AE7 S T V D C K D D E V L D S K D L L Q D M S L V T L L S T K T P P K D F F F S K H R Q L V L L  
UniRef90\_H0V4U7 S S M D Y E D E E V F D R K D L L Q D M S L M T L L S T K T P P K D F F F T R H R Q L V L L  
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UniRef90\_I3M1X0 S G M D C C E D E V L D S K D L L Q D M S L V T L L I T K T P P K D F F S T N H R L V L L  
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UniRef90\_G3UH33 T E P D C A D N Q L V S L A D L L Q D M S P M V L L S C E G P D K L F D N H K L I L L  
UniRef90\_G3TVM1 S T M D F K N N E V N S K D L L Q D M S L M T L L S T K T P P K D F F T K Y Q L V L L  
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UniRef90\_UPI0003F1857C G K R D N S D Q K I R C L Q D L E D M S I M V L L R T Q G G P A A L F D D H K F V L L  
UniRef90\_UPI00033476E1 K G V D L D S S Q L T S L D D L L Q D M S P M V L L T C E G P D K L F D S H K L V L L  
UniRef90\_UPI000383F052 P Q E D C S D E K V Y S K E D L L K D M S Q M I L L R T K G G P E H L P A G Y E I V L L  
UniRef90\_S6BNL5 P A P D C C D E E R V F S K E D L L D M S R M V L L R E G G P Q H L P R G Y E I V L L  
UniRef90\_UPI00032B19A8 F S M D C E D D D V L D S K D L L K D M S Q L T L L S T K T P P K N F F S A K H R Q L V L L  
UniRef90\_UPI00042AEA97 S R M D F E D D K V L D N K D L L Q D M S P M T L L S T K T P P K D F F A R Y R L V L L  
UniRef90\_Q9Z184 N A Q D N C D Q Y V R C L Q D L E D M S V M V L L R T Q G P E A L F E D H R L I L L  
UniRef90\_UPI0004438A1F S A K D Y E D E E V Q Q D S R D L L Q D M S R M T L L S T E T P P R D F F S S G H L L L L  
UniRef90\_F1NP39 R L M D N R D E T V V C S Y E D L K D M S Q M V L L R T R G P R T I F T H G L V L L  
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UniRef90\_F7G020 A G M D K D D D K V L G G R D L K D M S L M V L L S T R T P P E E F F A Q H K L I L L  
UniRef90\_UPI0002C46258 S T M D L M N N E V N S G R D L L Q D M S L M T L L S T K T P P K E F F T K Y K L V L L  
UniRef90\_G3VLB2 G G V D Y S H S R L Y S L A D L L Q D M S K M V L L W T N G P D K I F D N H K L V L L  
UniRef90\_UPI000462CE87 K D M D N A D Q R L Q S F M D L L K D M S L M I L L T T R G P P E E V F F E E N H L V L L  
UniRef90\_UPI0003316490 R G L D L A S S K L R S L D D L L Q D M S P L V L L T C G G P D Q L F K S H K L V M  
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QUERY	V	V	F	R	V
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UniRef90_H0XBE7	V	A	F	R	V
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UniRef90_UPI0003346C80	V	T	F	R	V
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UniRef90_UPI00027FA47E	V	V	F	R	V
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UniRef90_Q7ZWR3	V	T	F	R	M
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UniRef90_UPI0003315451	V	L	F	R	V
UniRef90_M3YXP7	V	V	F	R	V
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