

QUERY	1	10	20	30	40																																					
UniRef90_UPI00037045FA	N	Y	F	Q	G	H	M	M	Q	I	S	I	E	I	G	G	K	V	Y	Q	F	K	S	D	L	G	N	A	P	L	L	F	I	K	G	T	D	K	G			
UniRef90_B7GF51	Y	M	I	E	V	K	P	L	W	L	E	I	D	G	G	H	T	V	I	G	V	H	V	E	L	P	K	T	N	L	L	L	A	I	K	A	S	D	D	K	G	
UniRef90_UPI000470CA1D		M	L	N	V	F	K	P	L	Q	E	L	D	N	E	D	E	P	F	F	A	T	S	V	Q	L	P	K	T	N	L	L	L	T	I	K	A	N	D	D	K	G
UniRef90_H6NEL7		M	M	R	M	E	P	V	E	L	Q	E	D	G	R	T	A	L	A	I	S	E	V	K	L	P	K	T	N	L	L	L	V	V	T	T	S	D	D	K	G	
UniRef90_NOAWK9		M	I	D	L	L	T	P	I	T	I	E	D	G	H	S	F	F	A	I	S	T	V	K	L	P	K	T	N	F	M	A	V	T	T	S	N	E	H	D	K	G
UniRef90_W8R3C7		M	V	N	L	T	P	I	T	I	E	D	G	H	S	F	F	A	I	S	T	V	K	L	P	K	T	N	F	M	A	V	T	T	S	D	D	K	G	G		
UniRef90_UPI0001E89B7C		M	L	E	M	T	P	I	T	I	E	D	G	H	T	F	F	A	I	S	T	V	R	L	P	K	T	N	F	L	A	V	T	T	S	D	D	K	G	G		
UniRef90_W2EFW7		M	M	K	L	V	S	P	I	Q	I	E	D	G	H	T	F	F	A	I	S	T	V	R	L	P	K	T	N	L	L	L	A	V	T	T	S	D	D	K	G	G
UniRef90_U5LF23		M	M	K	L	V	S	P	I	Q	I	E	D	G	H	T	F	F	A	I	S	T	V	R	L	P	K	T	N	L	L	L	A	V	T	T	S	D	D	K	G	G
UniRef90_UPI000422AEBC		M	T	E	V	Q	P	M	F	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	F	M	A	I	V	T	T	S	N	E	I	G	G	
UniRef90_R9C4C2		M	I	D	V	Y	P	M	D	I	K	G	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	A	V	T	T	S	N	E	D	D	K	G
UniRef90_F5SJX8		M	V	R	L	Q	P	M	D	I	K	G	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	A	V	T	T	S	N	E	D	D	K	G
UniRef90_UPI0003094611		M	V	E	L	L	P	I	S	V	E	D	R	T	F	I	G	V	S	E	V	K	L	P	K	T	N	L	L	L	V	I	T	T	S	D	S	G	G	G		
UniRef90_GOVYR4		M	L	H	M	E	P	I	Q	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	T	I	T	S	N	E	K	R	G		
UniRef90_UPI00046817C6		M	M	S	L	S	P	I	Q	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	V	V	T	T	S	N	E	K	R	G	
UniRef90_UPI0002D8767D		M	T	R	L	L	P	M	T	I	E	D	G	H	T	V	L	G	V	E	V	E	L	P	K	T	T	L	L	L	A	I	T	T	T	S	K	G	G			
UniRef90_UPI000429493E		M	I	N	L	S	P	I	K	I	E	D	N	G	H	T	F	N	A	V	T	T	V	L	P	K	T	T	L	L	L	V	V	M	N	D	N	K	G			
UniRef90_UPI0003F5C682		M	L	E	M	N	P	I	F	I	E	D	G	H	T	Y	T	A	V	T	L	R	L	P	K	T	N	F	M	A	V	T	S	N	D	K	G	G				
UniRef90_K6D4W8		M	I	K	T	E	P	I	F	I	E	D	G	H	Q	F	T	A	I	S	T	V	R	L	P	K	T	N	F	M	A	V	T	S	N	D	K	G	G			
UniRef90_UPI0003736985		M	V	S	J	E	P	V	M	I	E	D	G	H	T	M	F	I	A	S	T	V	R	L	P	K	T	N	L	L	L	T	L	Q	C	E	O	R	G			
UniRef90_UPI0004298842		M	I	Y	V	A	P	L	H	F	D	G	G	H	T	F	L	Q	I	E	V	K	L	P	K	T	N	L	L	L	I	S	T	S	R	R	G	G				
UniRef90_UPI00037B3383		M	I	R	M	E	P	I	Q	I	E	D	G	H	T	L	I	G	V	E	V	K	L	P	K	T	T	L	L	L	T	I	S	T	S	R	R	G	G			
UniRef90_D3EDI6		M	V	T	L	L	S	V	E	I	E	D	G	H	T	V	M	G	V	E	V	K	L	P	K	T	T	L	L	L	A	V	Y	T	S	R	R	G	G			
UniRef90_UPI00046EFB57		M	V	T	V	T	S	V	A	V	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	T	V	T	S	N	E	N	G	G		
UniRef90_X4ZGQ2		M	V	T	L	E	P	V	A	V	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	T	V	T	S	T	D	K	G	G		
UniRef90_UPI0001850A07		M	V	E	L	L	P	I	E	L	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	V	V	T	N	D	E	K	G			
UniRef90_UPI000479A0C4		M	M	N	V	E	P	I	E	L	E	D	G	H	T	F	F	A	I	S	T	V	E	I	P	K	T	N	L	L	L	V	V	T	N	D	I	K	G			
UniRef90_W4RV85		M	L	E	M	S	P	I	E	L	E	D	G	R	T	F	L	C	I	S	S	V	K	L	P	K	T	N	L	L	L	V	V	T	G	D	D	K	G			
UniRef90_C2N8K6																																										
UniRef90_W7ZSI4		M	I	N	V	D	P	I	S	I	E	D	G	E	T	F	L	A	I	T	V	K	L	P	K	T	N	F	M	A	V	T	C	D	A	G	G	G				
UniRef90_L5MSQ6		M	I	I	K	P	I	E	V	K	G	H	Q	V	I	G	L	E	V	T	L	P	K	T	T	L	L	L	A	V	T	T	S	N	E	K	T	H	G			
UniRef90_UPI00037F56FE		L	V	T	V	E	P	V	H	I	K	G	H	T	F	F	A	T	T	V	Q	L	P	K	T	T	L	L	L	A	V	T	S	N	E	K	T	H	G			
UniRef90_X2GX55		M	V	T	I	E	P	I	M	I	K	G	H	T	F	F	A	T	T	V	H	L	P	K	T	T	L	L	L	T	I	T	S	N	E	K	T	H	G			
UniRef90_UPI000307DB33		M	I	T	L	E	P	I	V	E	G	K	T	F	N	A	T	T	V	A	L	P	K	T	T	L	L	L	V	V	T	S	N	D	K	G	G					
UniRef90_UPI00038277C6		M	V	R	L	V	P	I	Q	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	V	V	T	S	N	D	K	G			
UniRef90_UPI0002889501		M	I	R	Q	L	K	L	I	E	E	D	G	R	T	F	L	C	I	S	S	V	K	L	P	K	T	N	L	L	L	V	V	T	G	D	D	K	G			
UniRef90_C8WVGO		M	V	R	V	E	P	M	W	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	A	I	A	N	S	V	G	G			
UniRef90_W9AJL3		M	L	T	L	N	P	L	E	V	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	M	I	A	S	N	E	V	G			
UniRef90_UPI00034DE083		M	F	N	M	T	P	I	E	V	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	A	V	T	S	N	E	K	G			
UniRef90_UPI00028A19E7		M	M	L	V	K	P	I	E	I	A	G	K	A	A	T	A	V	E	V	L	K	L	P	K	T	T	L	L	L	V	V	T	T	D	K	G	G				
UniRef90_UPI00047B206E		M	L	E	M	T	P	I	T	E	E	D	G	K	T	F	L	A	V	T	L	K	L	P	K	T	N	F	M	A	V	T	S	N	E	K	G					
UniRef90_UPI0002627078		M	M	T	M	N	P	L	E	V	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	V	V	T	S	N	E	V	G			
UniRef90_UPI00040FC531		M	T	S	L	K	P	V	F	I	E	D	G	H	T	F	F	A	I	S	T	V	K	L	P	K	T	N	L	L	L	V	V	T	S	N	D	T	G			
UniRef90_UPI0003B76951		M	L	A	M	K	P	L	E	V	E	D	G	H	T	V	L	G	I	E	V	K	L	P	K	T	T	L	L	L	V	I	T	T	E	K	G					
UniRef90_E0IBP4		M	M	Q	M	V	P	Y	L	I	L	D	G	K	S	F	Q	A	V	T	V	R	L	P	K	T	T	L	L	L	V	W	M	T	T	D	K	G				
UniRef90_F9DSW8	E	L	I	D	T	K	S	I	L	L	D	G	K	S	F	Q	A	V	T	V	R	L	P	K	T	T	L	L	L	T	V	S	N	D	R	G						
UniRef90_V6M5J2		M	V	E	V	Q	P	I	H	L	S	E	G	T	A	L	A	L	T	V	H	L	P	K	T	T	L	L	L	A	V	T	T	S	N	D	N	G				
UniRef90_U2FKP2		M	F																																							

QUERY Y A M C G Y L N M E T S N K V G D I A V R V M G V V K T L D D D M L S K V V A S
UniRef90_UPI00037045FA Y I M M G G A L D I Q L L N N E R G G I V A G R A V M G V V K S T L D D D L L L N E F A P P L L L E E S V I T T
UniRef90_B7GF51 Y I M M G G A L D I A L L L L N N E R G G I V A G R A V M G V V K R T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_UPI000470CA1D Y I M M G G A L D I V G L L L N N E R D R H I V A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_H6NEL7 Y I M M G G A L D I V G L L L N N E R E R G G I I I A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
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UniRef90_UPI0001E89B7C Y I M M G G A L D I V G L L L N N E R D R K E I I I A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
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UniRef90_R9C4C2 Y I M M G G A L D I V G L L L L N N E R D R K I I I A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_U5SjX8 Y I M M G G A L D I V A L L L L N N E R E R K I I I A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_UPI0003094611 Y I M M G G A L D I V G L L L L N N E R E R N I I I A A G R A V M G V V V K T T L L L E E E Q Q L L L L E A S P P L L L E E S V I T T
UniRef90_GOVYR4 Y I M M G G A L D I V V A L L L L N N E R E R G I V I I A A G R A V M G V V V K T T L L L E E E K K E Q L L L L E A S P P L L L E E S V I T T
UniRef90_UPI00046817C6 Y I M M G G A L D I V G L L L L N N E R D R G I I I A A G R A V M G V V V K T T L L L E E E Q Q L L L L E A S P P L L L E E S V I T T
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UniRef90_UPI0003F5C682 Y I S M G G A L D I V S L L L L N N E R E R K I I I A A G R A V M G V V V R T T I I I E E E L L L L E A S P P L L L E E S V I T T
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UniRef90_D3EDI6 Y I M M G G A L D I V G L L L L N N E R E R K I I I A A G R A V M G V V V R T T L L L E E E Q Q L L L L E A S P P L L L E E S V I T T
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UniRef90_UPI0001850A07 Y I M M G G A L D I V G L L L L N N E R E R G I I I A S G R A V M G V V V K T T I I I E E E Q Q L L L L E A S P P L L L E E S V I T T
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UniRef90_UPI00037F56FE Y I M M G G A L D I V G L L L L N N D R N I I I A A G R A V M G V V V K T T I I I E E E L L L L E A S P P L L L E E S V I T T
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UniRef90_UPI00047B206E Y I M M G G A L D I V A L L L L F N N E R K I V I I A A G R A T G V V V K T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_UPI0002627078 Y I M M G G A L D I V D L L L L N N D R K K I V I A A G R A T G V V V K T T I I I E E E L L L L E A S P P L L L E E S V I T T
UniRef90_UPI00040FC531 Y I M M G G A L D I V D L L L L S E R E K I V I I A A R A V M G V V V K T T I I I E E E Q Q L L L L E A S P P L L L E E S V I T T
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UniRef90_E0IBP4 Y I M M G G A L D I V E L L L L N N D R E R G I I I A A G R A V M G V V V R T T I I I E E E Q Q L L L L E A S P P L L L E E S V I T T
UniRef90_F9DSW8 Y I M M G G A L D I V G L L L L N N D R E R K I I I A A G R A V M G V V V K T T I I I E E E Q Q L L L L E A S P P L L L E E S V I T T
UniRef90_V6M5J2 Y I M M G G A L D I V G L L L L N N D R K K I V I A A G R A V M G V V V K T T I I I E E E Q Q D D L L L L E A S P P L L L E E S V I T T
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