

QUERY	1	10	20	30	40																																					
UniRef90_F5LPF9	M	F	K	G	L	I	A	A	L	W	D	S	L	G	E	P	D	V	V	F	L	L	K	S	D	I	L	L	K	F	H	L	K	I	L	A						
UniRef90_K6D0S7	M	D	Q	K	L	P	A	A	M	K	F	F	R	F	L	T	S	S	D	Y	E	I	G	V	F	L	D	M	H	I	S	A	Q	L	K	N	V	A	M	L	A	
UniRef90_UPI00046EA8D4				P	A	S	A	N	M	K	F	F	L	K	Q	S	S	D	Y	E	I	G	V	F	L	D	M	H	I	S	A	Q	L	K	N	V	A	M	L	A		
UniRef90_UPI0003F848D7				P	A	T	R	D	M	K	D	F	F	L	T	S	D	Y	E	I	G	V	F	L	L	E	T	R	L	S	A	Q	L	V	S	L	V	K	Y	A		
UniRef90_C5D311			Q	K	L	P	A	M	K	D	F	F	L	K	N	S	R	F	V	Y	G	V	F	L	L	E	V	H	I	S	A	Q	L	K	N	V	A	M	L	A		
UniRef90_U4VNX2				P	A	V	R	Q	M	K	D	F	F	L	N	S	R	F	Y	L	V	L	L	L	D	S	H	H	I	S	A	Q	L	K	H	I	V	Q	M	S		
UniRef90_A8FBE8			Q	P	L	P	A	V	K	Q	F	F	L	K	S	P	F	T	Y	G	V	L	L	D	V	H	I	S	A	Q	L	K	G	I	M	N	E	A				
UniRef90_W9ABX4				P	A	I	R	K	M	K	D	F	F	L	L	E	T	Q	Y	S	I	V	L	L	E	T	R	L	S	A	Q	L	K	S	L	V	N	E	Y	T		
UniRef90_UPI000380F3A5				P	A	V	R	K	L	K	D	L	E	S	L	Q	T	S	V	Y	I	V	L	L	E	G	T	R	L	S	A	Q	L	M	A	P	I	V	N	L	A	
UniRef90_UPI00036AA843	M	L	L	P	A	I	R	D	L	K	D	L	E	S	L	Q	T	S	V	Y	I	V	L	L	E	N	T	H	I	S	A	Q	L	K	S	I	V	K	M	L		
UniRef90_I4XOS4				P	V	L	R	N	M	K	D	F	F	L	L	N	S	H	E	Y	L	V	L	L	E	T	R	L	S	A	Q	L	K	S	L	V	Q	V	A			
UniRef90_UPI0001850DBA				P	A	I	H	S	M	K	D	F	F	L	L	N	S	K	Y	T	Y	G	V	F	L	D	L	R	L	S	A	Q	L	K	S	V	F	Q	M	A		
UniRef90_W2EAR7				P	A	I	R	R	I	K	D	L	E	K	L	D	S	S	Y	T	Y	L	V	L	L	D	V	H	I	S	A	Q	L	K	H	N	V	Q	F	A		
UniRef90_D5DAB7				P	A	V	R	D	M	K	Q	L	E	N	F	L	A	S	N	S	Y	E	Y	G	V	L	D	N	Q	V	G	Q	L	K	G	S	V	I	M	R	E	V
UniRef90_A0A024DL38				P	A	V	R	Q	I	K	D	L	E	K	L	L	H	A	S	N	S	Y	E	Y	L	V	L	D	N	Q	V	G	Q	L	K	S	V	I	S	L	A	
UniRef90_U6BAX0			Q	K	L	P	S	V	R	D	F	F	L	K	S	P	Y	E	Y	G	V	L	L	E	M	H	I	S	A	Q	L	K	A	V	I	E	M	A				
UniRef90_A9KSR2				P	V	I	A	A	L	K	D	L	E	Q	L	E	S	S	S	T	V	F	L	L	Y	G	D	I	L	T	I	S	D	I	V	N	R	V	A			
UniRef90_Q65M13				P	A	V	R	N	M	K	D	F	F	L	L	D	S	P	F	Y	E	Y	G	V	L	L	D	I	H	I	S	A	Q	L	G	G	V	I	S	A		
UniRef90_S9TDT1			Q	R	I	L	P	A	M	K	D	L	E	K	A	V	A	S	P	Y	E	Y	L	V	L	L	D	V	H	I	S	A	Q	L	K	H	A	C	S	M	V	
UniRef90_UPI0004776875			Q	A	I	L	P	A	M	K	D	F	F	L	L	D	S	S	Y	Q	Y	G	V	F	L	L	D	T	H	H	I	S	A	Q	L	K	S	I	F	R	M	
UniRef90_UPI00047A5123				P	A	I	R	D	M	R	D	L	E	R	L	L	S	S	D	L	E	G	V	F	L	L	E	T	H	H	I	S	A	Q	L	K	S	I	F	K	L	
UniRef90_L7ZZS3			I	I	P	A	I	K	T	M	K	Q	F	D	A	F	L	S	S	G	Y	T	V	G	V	L	L	E	V	H	I	S	A	Q	L	K	S	I	F	A	Y	
UniRef90_UPI0003F75177				P	A	L	R	Q	L	K	D	F	F	L	L	E	S	S	P	Y	Q	T	I	L	L	L	E	S	H	H	I	S	A	Q	L	R	S	I	V	T	T	
UniRef90_UPI000374A9C2			I	I	P	A	S	T	M	K	D	F	F	L	L	E	S	D	Y	E	I	G	V	M	L	L	E	V	H	I	S	A	Q	L	K	N	I	C	Q	M		
UniRef90_UPI00031F9E2B	M	N	Q	K	L	L	P	A	M	K	E	F	F	L	L	E	S	S	Y	E	I	G	V	M	L	L	E	V	H	I	S	A	Q	L	K	N	I	C	Q			
UniRef90_W4Q2X6				P	A	A	R	T	V	K	E	F	F	L	L	K	S	F	F	V	I	L	L	L	N	S	I	G	Q	L	K	S	L	I	Q	L	A					
UniRef90_J8TIi6	M	D	Q	S	L	L	P	A	M	K	E	F	F	L	L	K	S	P	F	K	V	G	I	L	L	L	E	T	H	H	I	S	A	Q	L	K	N	I	S	K		
UniRef90_UPI0003F7676D	M	F	N	P	A	V	R	D	L	K	D	L	E	K	A	V	K	N	S	E	F	V	V	L	L	N	E	T	H	H	I	S	A	Q	L	K	S	L	V	R		
UniRef90_F7Z1T9			Q	K	L	P	A	M	K	E	F	F	L	L	K	S	D	Y	E	I	G	V	F	L	L	E	L	H	I	S	A	Q	L	K	Y	V	A	M	A			
UniRef90_R5U459				P	V	I	A	A	A	R	D	R	E	R	C	C	C	Q	S	S	G	L	V	F	L	L	F	G	D	V	C	C	T	I	G	E	V	V	K	I		
UniRef90_R5RB49				P	L	I	A	A	V	K	D	L	E	A	C	L	E	S	S	S	M	V	F	V	L	L	Y	G	D	V	C	C	T	I	G	E	V	V	K	I		
UniRef90_UPI00040D2E46				P	A	V	R	T	I	K	D	L	E	K	L	Q	S	K	Y	I	V	L	L	D	T	G	D	V	C	C	T	I	G	R	I	K	T	I	I	Q		
UniRef90_R7RAF0				P	L	I	P	A	L	K	D	L	E	Q	L	C	Q	S	D	A	C	V	I	F	V	L	D	T	G	D	V	C	C	T	I	G	E	V	V	K		
UniRef90_M8DYK1				P	A	A	R	H	M	K	D	F	D	H	I	L	E	S	P	Y	E	Y	G	V	F	L	D	T	H	I	S	A	Q	L	K	G	L	Y	D			
UniRef90_R6RWX4				P	V	I	A	A	I	K	D	E	K	C	L	H	S	E	I	Q	I	V	F	V	L	L	Y	G	D	V	C	C	T	I	G	D	I	V	S			
UniRef90_R7DC54			N	P	V	I	A	A	V	K	N	M	E	L	E	K	S	D	I	H	V	V	F	V	L	L	F	G	D	V	C	C	T	I	G	D	I	V	S			
UniRef90_R5TXZ5			N	P	V	I	A	A	V	K	D	L	E	K	E	C	L	Y	S	E	S	Q	I	F	L	L	F	G	D	V	C	C	T	I	G	D	I	V	S			
UniRef90_V2XYR2			N	P	V	I	A	A	V	K	D	L	E	K	T	F	A	Q	S	E	N	D	I	L	F	L	L	F	G	D	V	C	C	T	I	G	D	I	V			
UniRef90_UPI00047DE23E				P	L	I	A	A	V	S	D	L	E	A	I	Q	S	P	S	Q	L	I	F	L	L	F	T	G	N	I	L	G	G	I	V	R	R	R				
UniRef90_G9QIN4				P	A	I	R	S	M	K	D	F	F	L	L	E	M	P	Y	Q	Y	G	V	F	L	L	D	L	H	I	S	A	Q	L	K	S	V	Y	E			
UniRef90_K2FQ48				P	A	V	R	R	M	K	D	F	F	L	L	E	T	L	S	D	T	E	Y	M	V	F	L	L	E	T	R	I	G	L	K	S	M	V				
UniRef90_UPI00037C265E				P	A	A	R	R	M	K	D	F	F	L	L	L	T	R	P	K	Y	I	V	L	L	D	T	H	H	I	S	A	Q	L	K	S	L	V				
UniRef90_R7FYW8			N	P	I	T	A	A	V	K	N	M	K	D	I	E	V	S	E	I	Q	V	I	F	L	L	F	G	D	V	C	C	T	I	G	D	I	V				
UniRef90_UPI000287EB6B				P	I	I	P	A	V	K	D	F	F	L	L	E	G	P	Y	E	T	I	V	L	L	D	S	G	N	I	A	Q	L	G	N	M	V					
UniRef90_UPI00047E6634				N	P	L	I	A	A	I	N	D	L	E	A	L	D	C	P	V	E	N	I	F	L	L	D	T	G	N	I	L	N	L	K	E	I	V				
UniRef90_A0A024PL62			I	I	P	A	I	R	K	M	K	D	F	D	K	A	L	D	T	S	Y	D	S	L	V	F	L	E	T	R	L	A	Q	L	K	S	L	V				
UniRef90_L5MUD5			Q	P	L	L	P	A	L	K	D	F	F	L	L	E	M	E	S	Y	E	R	I	L	L	N	A	H	H	I	S	A	Q	L	K	P	L	G				

QUERY UniRef90_F5LPF9 UniRef90_K6D0S7 UniRef90_UPI00046EA8D4 UniRef90_UPI0003F848D7 UniRef90_C5D311 UniRef90_U4VNX2 UniRef90_A8FBE8 UniRef90_W9ABX4 UniRef90_UPI000380F3A5 UniRef90_UPI00036AA843 UniRef90_I4XOS4 UniRef90_UPI0001850DBA UniRef90_W2EAR7 UniRef90_D5DAB7 UniRef90_A0A024DL38 UniRef90_U6BAX0 UniRef90_A9KSR2 UniRef90_Q65M13 UniRef90_S9TDT1 UniRef90_UPI0004776875 UniRef90_UPI00047A5123 UniRef90_L7ZZS3 UniRef90_UPI0003F75177 UniRef90_UPI000374A9C2 UniRef90_UPI00031F9E2B UniRef90_W4Q2X6 UniRef90_J8TI16 UniRef90_UPI0003F7676D UniRef90_F7Z1T9 UniRef90_R5U459 UniRef90_R5RB49 UniRef90_UPI00040D2E46 UniRef90_R7RAF0 UniRef90_M8DYK1 UniRef90_R6RWX4 UniRef90_R7DC54 UniRef90_R5TXZ5 UniRef90_V2XYR2 UniRef90_UPI00047DE23E UniRef90_G9QIN4 UniRef90_K2FQ48 UniRef90_UPI00037C265E UniRef90_R7FYW8 UniRef90_UPI000287EB6B UniRef90_UPI00047E6634 UniRef90_A0A024PL62 UniRef90_L5MUD5 UniRef90_UPI0003B527A3 UniRef90_H3SDY9 UniRef90_E3H8W6 UniRef90_UPI0003FE4249 UniRef90_R9C624 UniRef90_UPI00047588CF UniRef90_Q9KDX0 UniRef90_UPI00047A616A UniRef90_UPI0003738625 UniRef90_UPI0001E89B97 UniRef90_U2CIG1 UniRef90_UPI0003021B0C UniRef90_UPI0002881A80 UniRef90_UPI0003F829FB UniRef90_UPI000312EEAB UniRef90_E3GPD5 UniRef90_B9EBI6 UniRef90_D4M2D6 UniRef90_R9JI6 UniRef90_J0X134 UniRef90_I8UA11 UniRef90_X0RNG0 UniRef90_E8SGK2 UniRef90_UPI000248CE89 UniRef90_U2CMK2 UniRef90_D4J677 UniRef90_L5NBY4 UniRef90_C0D9H2 UniRef90_UPI00026264B4 UniRef90_C5VNL1 UniRef90_A0A011AWU2 UniRef90_G2T1W0 UniRef90_S3FGZ0 UniRef90_F5SCW9 UniRef90_UPI00035E22AD UniRef90_UPI00030DCE0C UniRef90_R7RTQ7 UniRef90_R6PXZ3 UniRef90_A6NR62 UniRef90_D3T494 UniRef90_UPI000314E664 UniRef90_R5Z5M1 UniRef90_Q8ENK5 UniRef90_UPI0003FAEBE7

K D R G K T V F V D M D F V N G L G E 60 E A L F V K K A G A D G I T I K P
K S H G K K P L L H V D L V N E G L K N D D E Y A T E Y F L C Q Q Y K P T Y G L I I S T T R A S
K E Y H G K K M I Y H V D L L I H Q G L K N D D E Y A T E Y F L Q Q E Y K P Y Y G L I I S T T K S S
K E Y N K K M I Y H V D L L I H Q G L K N D D E Y A T E Y F L Q Q E Y K P Y Y G L I I S T T R G S
K R E Q K K V F V H A D L I V Q Q G L K T D E A G E F L R R N L K P P D G L I I S T T R G G
R Q H G K K L I I H T D L V N G L S R N D E Y A A E F Y L Q Q E F H P P A G G L V I I S T T R K S
K K H H K K M L V H V D L L I H G G L K R N D E Y A A E F F L Q Q E I R P P A G G L V I I S T T R G S
N A H H K K M F V H V D L L I H G G L K H D E Y A T E F F L Q Q E M K P P A G G I I S T T R S
K R A N K K A L V H F D L I V Q Q G L R A N D D Y A A M E F F L R R E T K P P A D G L I I S T T R A
R S H G K R V L L H A D L I V Q D G L K N D D E Y A A E F F L R R Q V R P P A G G L I I S T T R A
R D H D K K V L L H A D L I V Q G L K S D E Y A A Q F F L R R D I R P P A G G L I I S T T R K S
K K A N K K V L L H V D L I V Q Q G L K T D A Y A G F E F L R R E V K P P D Y G I I V I S T T K S
N S Q N K K M F L H M D L I V Q Q G L K N D D E Y A T E F F L R R E V L K P P D Y G I I S T T K S
K G A G K K L L L H L D L I V Q G G M Q S D D G Y A A E F Y L Q Q E F Q P P Y G I I L I S T T K T
K K H E K K L I I H L D L I H H G L K S H D D G A V D F F L Q Q E F F K P P A G G L I I S T T K A
K Q Y C K K V F L H V D L I H G G L K S D D G H A T E Y F L Q Q E F R P P A G G L I I S T T K A
H R Y D K K M F L H M D L V Q G L K S N D E Y A T E Y F V Q Q E L K P P Y G V I I S T T K A
K E C G K K L A M V H V D L I H G G L K S S K E S V D F F I K K K T K A D G G I I S T T K S
R S H G K K M F V H V D L I S Q G L K H D E Y G A E F F L Q Q E M K P P A D G G I I S T T R S
H Q A N K K L F L H V D L I V Q Q G L Q S D A H A T A E F Y L Q Q E Y R P P Y G I I L I S T T K S
G S H N K K M F L H A D L I H H G L K N D D E Y A A E Y L Q Q E L K P P F G I I S T T K G
R R H G K E L I I H V D L V Q G L S H D E H A A E Y L Q Q E F R P P H G L I I S T T K A
K R A N K K L F L H A D L I H H G L K S D D D Y G A D F F L Q Q D I K V D G G L I I S T T R K
E r H G K K M I F H V D L I H G G L K N D D Y G T E Y L Q Q E F N P P A D G G I I S T T K A
K Q K G K L M I Y H V D M I H H G I K N D D D Y A T E Y I Q Q E F Y K P P Y G I I S T T K S
N K A G K K V F L H V D L M V Q Q G L K T D D Y A A Q F F I Q Q D I K P P A G G I I S T T R K S
K S N G K E M I Y H V D M I H H G I R N D D Y A T E Y Q Q E F K P P A Y G L I I S T T K S
K K E N K K V L L H A D L V Q G L K S D D E F G A Q F F L Q Q D I K P P H G L I I S T T R A
K A E G K K M I Y H V D L I H H G L K S D D D Y A T E Y L Q Q E Y Q P P A D G G I I S T T K A
K S A G K L A F V H M D L V N G L S S R E S V D E Y L K E T N A D G G I I S T T K Q
Q S R G K R A V I H M D L I V Q G L S A K E A A V N F I K E Y R A D G G I I T T R S P
K A H G K S I F L H L D L I H H G L K A D E Y A T E F I K E A K P A D G I I S T T R S
K A E G K L A M V H M D L I A G L G S K E V S V D F F I K E T K A D G I I T T K P
E K H K K M F L H A D L V A G L K N D E Y A A E F L Q Q T K P A D G L I I S T T R S
K K A G K T V M V H L D L I T G L S S R E T A V E F Y L K A N T H A D G I I S T T K P
K E A G K L A M I H V D L I T G L S S T R E I A V E F F L R K N T E A D G I I T T K P
K S A G K M V F V H M D L I N G L S N K E V A V D F F L R E T G V D G I I S T T K P
K E A G K L A F V H L D L T E G F A R D A M A L K Y A K E Y R A D G G I V I S T T K P
K E G G M D I Y V H L D L I H H G L T S D E N A T E F I V I Q Y K P P Y G I I S T T K S
R R Y D K K M F L H V D L I H G L K T S D E N A T E F I V I Q Y K P P Y G I I S T T K S
K K K G K T V F L H A D L V Q Q G L K T D E Y G M E Y L R E Q I K P P A D G I I S T T R A
K S H G K P L L H A D L I S G G L R N D E D A A E Y L C Q Q I K P P A G G I I S T T R A
K D A G K V A M V H V D L I S G L S P K E V S V I E Y L K E T E A D G I I S T T K P
K R R N K N V F L H A D L I H H G L K N D D L Y A A E F I Q N N I R P P A D G I I S T T H S
K A K D K G V F V H I D L M E G F S K N D K W S L E Y I Q N N V E P D G I I T T K S
K R A N K K A L V H F D L I T Q G L K A D E F G M E Y L R E V K P P D G I I S T T R A
R A F G K K L I I H A D L I D G L K S D E Y A A M D F F L R E V K P P D G I I S T T R N
H Q H G K K V I L H V D L I V Q G L K N D E Y A A E F L C Q Q M K P P A G G L I I S T T R T
R P H N K K L L L H V D L I V Q G L Q N D S Y A A E Y L Q Q E F T P P Y G L I I S T T K A
K E K G K T V F V H A D L V Q G L K S H S T Y A L E Y L R N T E L D G I I S T T K Y
H Q H N K K V F V H A D L V K G L K A D E Y G L E Y L K N V K A D G I I S T T R G
K Q A N K K M I Y H V D L I Q G L K S D D F G T E F L Q E F K P P Y G V I I S T T K S
K E K G K T V L V H I D L I V G G L S S R E V A V D F I K T T E A D G V I I S T T K P
K A K K L L F L H A D L V Q G L K T D E F A A Q F F I Q E I R P P A Y G L I I S T T R K
E Q H H K K I I Y H V D L I H G L K S D D F A A A E Y L Q Q E Y R P P Y G L I I S T T K S
R Q G K K M L L H A D L I Q Q G L K N D E Y A A A E Y L R R E K R P P A G G L I I S T T R A
N R E K K K L F V H V D L I Q Q G I K N D E H A A E F L C Q Q I K P P A G L V I S T T R A
K D A G K T V I V H L D L I S G L S G K E I A V S F I H T T A A D G I I S T T K P
Q E H D K K L I Y H V D L I S G L K H D E H A V D F I Q E I K P P A G G I I S T T R L
G L H G K K M I Y H V D M V H H G I K S D E Y A T E Y F I Q E F Q P P A Y G L I I S T T K S
K R A N K K V I I H V D L V Q G L K N D D E Y A T E F I Q E I K P P Y G V I I S T T R T
K E H G K K L F F H M D L I Q Q G L K N D D H A T E Y F V Q E F K P P A G G I I S T T K A
N H A G K Y A F V H L D L I K G Y A Q D N Y F I K Y I K E I N P T G I I S T T K N
N Q H Q K S A F I H I D L I K G M S T D E Y A A E Y I Q R Y K V D G I I V I S T T K P
K A A G K L A V V H I D L I H H G L A S K N I A A D F I K K Y E A D G V I I S T T K P
K K T G K L A L V H I D L I E G L S G H E I A V D F I K N T E A D G I I S T T R V
H A A G K K M Y I H I D L L E G V A N D R S A L Q F L K H F Y P A D G I I S T T K A
G A A G K K V F V H A D L I Q G L K A D E Y A A E F I Q E I K P P A G G I I S T T R N
K K H N K L A F L H M D L I K G I G R D R E G V V Y I K K E L C P A G G I I T T K N
S Q Y E L K P F M H I D L I K G M S H D E Y A C E Y I Q T Y R P R G I I V I S T T K T
R Q H K K Q L L V H V D L I H H G L K N D D Y A T E Y F L C Q Q M R P P A Y G I I S T T R S
K A S E K I V F V H L D M I E G L R G D T F G I E Y L K K Y A P A Y G I I T T K P
K A A G K M A L V H L D L I N G L S A K D V A V D F I K K Y K A D G I I S T T K P
Q K A G K K V L V H V D L I Q G L K A D D Y G M E F I Q E V K P P A D G I I S T T R A
K G A G K T V F V H M D L I V G L S N K E S V N F I K E T K A D G I I S T T R A
K R S D K Q V L L H F D L I V Q G L K A D E Y G M E F L R D I N P P D G I I S T T R T
K A V G K S I Y V H I D L M D G F A R D R Y A L T D F H M K E V N A D G I I T T K T
K D A D K V A M V H I D L I T G L S S G R E T A V D F I K K N T K A D G I I S T T K P
K S A G K L A T V H L D L I N G L S S K E V A V D F I Q K Y N A D G I I S T T K P
E T H G K Q V F I H L D L I N G L S K A D E F A T E F I C Q Q Y K P P Y G I I S T T K T
R G M G K Q V Y L H V D L A Q G F S N D R A L K F I R E I G P P D G V V I S T T R G
R K A R K Q V L L H V D L I H H G L K N D E H A I E F L S Q T R P A G G M I S T T R S
K Y K K K V L M H S D L I H H G L K T D E Y G L E F L N N V K V D G I I S T T R V
K R N G R R V F V H I D L I N G L G K D E Y A V K F I G K I G V D G I I T T K P
R E K G K I A M V H I D L I S G L G S K E T A V D F I K K T E A N G I I S T T K P
H A A G K A V F V H L D L V E G L A Q K E I A V D F I A R T E A N G I I S T T R P
K K Y G K I V F V H F D L I E G L G K D N K A L E Y L A K V K P H G I I S T T R N
K R A N K K V I V H A D L I Q G L K T D N Y G M E Y L Q D V K P P D G I I S T T R T
K L K K R M A I V H V D L I E G L S N D E V V L D Y L R N V H A D G I I S T T K S
H R N K K K V L V H F D L I Q G L K A D E Y G M E F L R E M K P A D G V I I S T T R S
R D H G K K L L L H A D L V Q G L R N D E A G A Q F L C Q Q I K P A G L I S T H S

QUERY	K	N	Y	V	V	A	K	K	N	G	90	P	A	V	L	R	F	F	A	100	D	S	S	K	A	V	E	R	G	110	I	E	T	L	G	V	D	V	V					
UniRef90_F5LPF9	S	N	V	I	M	K	T	K	E	N	G	L	L	A	V	L	R	F	F	A	100	D	S	S	K	A	V	E	R	G	I	E	T	L	G	V	D	V	V					
UniRef90_K6D0S7	S	N	V	I	L	K	A	K	K	R	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	K	S	Y	Q	L	L	E	R	T	K	P	D	D	I		
UniRef90_UPI00046EA8D4	S	N	V	I	Q	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	H	A	L	E	K	S	Y	Q	L	L	E	R	T	K	P	D	D	I		
UniRef90_UPI0003F848D7	N	V	I	S	Y	A	K	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	H	A	L	E	K	S	N	I	K	L	I	E	N	K	V	K	P	D	D	I
UniRef90_C5D311	N	V	I	T	T	A	K	K	K	K	V	L	L	A	V	L	R	F	F	A	100	D	S	H	A	L	E	K	S	Y	Q	L	L	E	K	T	N	P	D	D	I			
UniRef90_U4VNX2	S	A	V	L	T	A	K	K	N	N	L	L	A	V	L	R	F	F	A	100	D	S	D	T	T	A	L	E	K	S	Y	R	L	L	E	E	K	T	Q	P	D	D	I	
UniRef90_A8FBE8	S	V	I	V	K	A	K	Q	K	K	V	L	L	A	V	L	R	F	F	A	100	D	T	S	A	M	E	K	S	M	E	F	V	G	K	H	R	P	D	D	I			
UniRef90_W9ABX4	N	V	I	S	M	A	K	K	N	N	L	L	A	V	L	R	F	F	A	100	D	S	S	L	A	L	E	H	I	K	L	I	E	N	R	T	K	P	D	D	I			
UniRef90_UPI000380F3A5	S	T	I	R	K	A	K	K	N	K	L	L	A	V	L	R	F	F	A	100	D	S	S	S	A	L	E	H	Q	S	Y	A	L	L	E	N	R	T	K	P	D	D	I	
UniRef90_UPI00036AA843	N	V	L	L	T	A	K	K	A	K	L	L	I	T	V	L	R	F	F	A	100	D	S	S	I	A	L	E	S	S	Y	N	M	L	E	T	I	Q	P	D	D	I		
UniRef90_I4X0S4	N	V	I	S	L	A	K	K	N	N	L	L	A	V	L	R	F	F	A	100	D	S	S	Q	A	L	E	H	I	N	L	E	N	Q	V	K	P	D	D	I				
UniRef90_UPI0001850DBA	S	V	I	K	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	N	A	F	N	R	S	I	E	Q	I	E	N	K	N	S	P	D	D	I	
UniRef90_W2EAR7	N	V	V	A	K	A	K	Q	K	K	V	L	L	A	V	L	R	F	F	A	100	D	S	S	G	S	L	E	K	S	Y	A	L	L	E	K	N	R	P	D	D	I		
UniRef90_D5DAB7	N	V	I	L	K	A	K	Q	R	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	T	A	L	E	K	K	S	Y	E	L	M	K	V	K	P	D	D	I		
UniRef90_A0A024DL38	S	V	I	M	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	T	A	L	E	K	K	S	C	N	L	L	D	K	K	T	K	P	D	D	I
UniRef90_U6BAX0	S	V	I	L	K	A	R	Q	K	K	V	L	L	A	V	L	R	F	F	A	100	D	S	S	S	L	E	K	S	Y	Q	L	M	E	R	T	Q	P	D	D	I			
UniRef90_A9KSR2	M	L	I	K	R	A	K	E	L	S	L	Y	T	V	L	R	F	F	V	I	100	D	S	S	M	A	Y	E	N	I	E	K	Q	C	M	N	V	K	P	D	D	I		
UniRef90_Q65M13	S	V	I	A	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	T	S	A	M	K	K	S	L	E	L	V	K	A	H	T	R	P	D	D	I		
UniRef90_S9TDT1	S	V	I	Q	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	N	S	A	L	E	K	S	C	K	L	L	Q	T	T	Q	P	D	D	I			
UniRef90_UPI0004776875	N	V	I	M	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	T	I	A	L	E	K	S	Y	A	L	L	E	R	S	T	Q	P	D	D	I		
UniRef90_UPI00047A5123	N	V	I	V	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	T	I	A	L	E	K	S	I	R	H	I	E	R	S	T	Q	P	D	D	I		
UniRef90_L7ZZS3	G	V	I	M	K	A	R	Q	K	R	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	K	S	Y	Q	L	I	A	K	T	N	P	D	D	I		
UniRef90_UPI0003F75177	N	M	V	L	K	A	K	K	Q	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	L	A	L	E	E	A	S	Y	K	K	I	E	L	T	K	P	D	D	I	
UniRef90_UPI000374A9C2	N	V	I	L	K	A	K	Q	R	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	G	Q	S	Y	R	L	I	E	K	T	R	P	D	D	I	
UniRef90_UPI00031F9E2B	N	V	I	L	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	K	S	Y	R	L	I	E	K	T	K	P	D	D	I		
UniRef90_W4Q2X6	N	V	V	L	T	A	K	K	H	S	I	A	V	L	R	F	F	A	100	D	S	S	I	A	L	E	H	A	L	E	S	S	Y	K	L	E	T	T	K	P	D	D	I	
UniRef90_J8TI16	S	V	I	L	K	A	R	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	G	K	S	Y	R	L	I	E	K	T	K	P	D	D	I	
UniRef90_UPI0003F7676D	N	V	L	L	T	A	K	K	H	D	L	I	T	I	Q	R	L	F	F	A	100	D	S	S	Q	A	L	E	S	S	Y	Q	M	M	K	Q	I	Q	P	D	D	I		
UniRef90_F7Z1T9	N	V	I	Q	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	H	A	L	E	K	S	Y	K	L	L	E	R	T	K	P	D	D	I		
UniRef90_R5U459	P	Q	I	R	R	G	K	E	L	G	L	F	T	V	L	R	F	F	V	I	100	D	S	S	A	A	Y	E	N	V	E	K	C	T	K	A	V	M	P	D	D	I		
UniRef90_R5RB49	A	L	I	R	R	A	K	E	L	G	L	F	T	V	L	R	F	F	V	I	100	D	S	S	M	A	L	E	N	I	Q	K	Q	T	A	A	V	M	P	D	D	I		
UniRef90_UPI00040D2E46	N	V	L	L	A	A	K	K	G	V	L	L	A	V	L	R	F	F	A	100	D	S	S	I	A	L	E	T	S	K	L	L	K	K	T	Q	P	D	D	I				
UniRef90_R7RAF0	M	L	A	K	H	A	R	E	L	G	L	A	T	V	L	R	F	F	I	100	D	S	S	I	A	L	E	S	N	L	S	Q	T	R	E	A	R	P	D	D	I			
UniRef90_M8DYK1	S	V	I	L	K	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	T	N	A	L	E	K	S	Y	L	L	L	E	K	T	Q	P	D	D	I			
UniRef90_R6RWX4	A	V	I	R	Q	A	K	E	E	G	L	F	A	I	M	R	F	F	V	I	100	D	S	I	A	Y	D	S	I	E	R	Q	T	E	S	V	H	P	D	D	I			
UniRef90_R7DC54	A	L	V	R	K	A	R	E	L	S	M	Y	T	V	L	R	F	F	V	I	100	D	S	S	M	A	F	E	N	I	L	S	Q	Q	H	S	V	H	P	D	D	I		
UniRef90_R5TXZ5	Q	L	V	K	R	A	K	E	L	G	L	F	G	I	L	R	F	F	V	I	100	D	S	S	M	A	F	G	N	I	E	K	Q	C	A	S	L	V	P	D	D	I		
UniRef90_V2XYR2	A	L	L	C	H	K	A	K	A	L	G	L	F	T	V	L	R	F	F	V	100	D	S	S	L	S	L	E	D	N	K	Q	I	A	A	C	D	P	D	D	I			
UniRef90_UPI00047DE23E	N	L	I	K	H	A	K	D	L	G	L	F	T	V	L	R	F	F	V	I	100	D	T	I	S	L	E	L	E	G	I	K	S	I	A	K	S	T	R	P	D	D	I	
UniRef90_G9QIN4	S	V	I	L	K	A	K	Q	K	G	I	F	A	T	V	L	R	F	F	A	100	D	S	S	A	L	E	R	S	V	K	L	V	E	K	T	N	P	D	D	I			
UniRef90_K2FQ48	G	V	I	Q	Q	A	K	R	Y	G	I	T	S	V	L	R	F	F	A	100	D	S	S	Q	A	L	E	V	Q	N	K	V	L	K	T	Q	P	D	D	I				
UniRef90_UPI00037C265E	G	V	I	T	K	T	K	Q	N	G	L	L	A	V	L	R	F	F	A	100	D	T	N	A	L	E	V	K	S	Y	A	L	V	Q	K	T	E	P	D	D	I			
UniRef90_R7FYW8	S	L	I	K	K	A	K	E	L	G	M	Y	T	I	L	R	F	F	L	100	D	S	S	M	A	F	E	N	I	R	Q	Q	H	I	V	R	P	D	D	I				
UniRef90_UPI000287EB6B	E	M	L	N	I	A	K	K	R	G	L	A	T	V	L	R	F	F	L	100	D	S	S	R	S	I	E	D	S	Y	R	Q	L	E	Q	V	R	P	D	D	I			
UniRef90_UPI00047E6634	N	L	A	R	A	S	K	L	N	M	F	T	I	Q	R	L	F	F	L	100	D	S	S	L	S	L	E	D	S	G	I	L	I	Q	S	A	R	P	D	D	I			
UniRef90_A0A024PL62	N	I	I	K	L	A	K	K	H	N	L	L	S	I	Q	R	L	F	F	L	100	D	S	L	A	L	D	H	L	E	L	I	K	R	I	Q	P	D	S	V				
UniRef90_L5MUD5	S	V	I	L	A	A	K	K	G	L	I	S	I	Q	R	L	F	F	L	100	D	T	M	A	L	D	S	T	L	Q	L	E	R	T	K	P	D	D	I					
UniRef90_UPI0003B527A3	P	V	V	Q	V	A	K	K	K	I	I	A	I	Q	R	V	F	F	L	100	D	T	H	A	L	E	T	S	Y	R	L	L	Q	L	S	K	P	D	D	I				
UniRef90_H3SDY9	S	V	I	T	R	A	K	Q	K	G	V	L	L	A	V	L	R	F	F	A	100	D	N	S	S	F	E	K	S	G	A	L	L	E	K	T	N	P	D	D	I			
UniRef90_E3H8W6	N	L	I	K	T	A	K	K	L	V	R	V	I	Q	R	F	F	A	100	D	S	I	S	L	E	N	S	L	K	Y	A	R	E	T	K	P	D	D	I					
UniRef90_UPI0003FE4249	N	A	I	S	F	V	K	K	N	N	V	I	G	I	L	R	L	F	F	A	100	D	S	S	H	A	L	A	K	S	V	K	L	V	Q	R	T	H	P	D	D	I		
UniRef90_R9C624	S	V	I	L	K	A	K	Q	K	N	V	L	L	A	V	L	R	F	F	A																								

QUERY UniRef90_F5LPF9 UniRef90_K6D0S7 UniRef90_UPI00046EA8D4 UniRef90_UPI0003F848D7 UniRef90_C5D311 UniRef90_U4VNX2 UniRef90_A8FBE8 UniRef90_W9ABX4 UniRef90_UPI000380F3A5 UniRef90_UPI00036AA843 UniRef90_I4X0S4 UniRef90_UPI0001850DBA UniRef90_W2EAR7 UniRef90_D5DAB7 UniRef90_A0A024DL38 UniRef90_U6BAX0 UniRef90_A9KSR2 UniRef90_Q65M13 UniRef90_S9TDT1 UniRef90_UPI0004776875 UniRef90_UPI00047A5123 UniRef90_L7ZZS3 UniRef90_UPI0003F75177 UniRef90_UPI000374A9C2 UniRef90_UPI00031F9E2B UniRef90_W4Q2X6 UniRef90_J8TI16 UniRef90_UPI0003F7676D UniRef90_F7Z1T9 UniRef90_R5U459 UniRef90_R5RB49 UniRef90_UPI00040D2E46 UniRef90_R7RAF0 UniRef90_M8DYK1 UniRef90_R6RWX4 UniRef90_R7DC54 UniRef90_R5TXZ5 UniRef90_V2XYR2 UniRef90_UPI00047DE23E UniRef90_G9QIN4 UniRef90_K2FQ48 UniRef90_UPI00037C265E UniRef90_R7FYW8 UniRef90_UPI000287EB6B UniRef90_UPI00047E6634 UniRef90_A0A024PL62 UniRef90_L5MUD5 UniRef90_UPI0003B527A3 UniRef90_H3SDY9 UniRef90_E3H8W6 UniRef90_UPI0003FE4249 UniRef90_R9C624 UniRef90_UPI00047588CF UniRef90_Q9KDX0 UniRef90_UPI00047A616A UniRef90_UPI0003738625 UniRef90_UPI0001E89B97 UniRef90_U2CIG1 UniRef90_UPI0003021B0C UniRef90_UPI0002881A80 UniRef90_UPI0003F829FB UniRef90_UPI000312EEAB UniRef90_E3GPD5 UniRef90_B9EBI6 UniRef90_D4M2D6 UniRef90_R9IJ16 UniRef90_J0X134 UniRef90_I8UA11 UniRef90_X0RNG0 UniRef90_E8SGK2 UniRef90_UPI000248CE89 UniRef90_U2CMK2 UniRef90_D4J677 UniRef90_L5NBY4 UniRef90_COD9H2 UniRef90_UPI00026264B4 UniRef90_C5VNL1 UniRef90_A0A011AWU2 UniRef90_G2T1W0 UniRef90_S3FGZ0 UniRef90_F5SCW9 UniRef90_UPI00035E22AD UniRef90_UPI00030DCE0C UniRef90_R7RTQ7 UniRef90_R6PXZ3 UniRef90_A6NR62 UniRef90_D3T494 UniRef90_UPI000314E664 UniRef90_R5Z5M1 UniRef90_Q8ENK5 UniRef90_UPI0003FAEBE7

E V L P G A V A P K V I A R K I V G R T P I V A A G G L I V T T V S D V E N A L L E A G A UniRef90_F5LPF9 E V L P G G V M P H I I T K E D R V L G E V I P I V A A G G L I R T T V S D V E N A L L E A G A UniRef90_K6D0S7 E V L P G G I A M P P W M I V V K E R T R L Q K V I P I F A G G G L I R T S Q K E E D V V E R N A L L K A G A UniRef90_UPI00046EA8D4 E V L P G G L I P K L I I F E R T L G I P V I A G G G L I R S Q K E E D V V E R N A L Y Q G G A UniRef90_UPI0003F848D7 E V L P G G A M P H I I T E R V V K E K P V I Y A G G G L I R T T V E D D V E R N A L L E S G G A UniRef90_C5D311 E V L P G G I M P H I I T E R V V K E K P V I Y A G G G L I R T T V E D D V E R N A L L E S G G A UniRef90_U4VNX2 E V L P G G V V P N L I V R E R A G I P I V I F A G G G F I R T T K E E D V E R A L L E A G A UniRef90_A8FBE8 E V L P G G L I P Q E M I V Q A N S N G L P V I A G G G L I K T R K E Q D V E D K A L L A G A UniRef90_W9ABX4 E V L P G G I M P P H I I Q E V I Y E K P V I A G G G L I R T T E N E D V Q T A L A G A UniRef90_UPI000380F3A5 E V L P G G I I P S V I K E E A T G T P I F A G G G L I R E T K E E D V I Q L A Y D G G A UniRef90_UPI00036AA843 E V L P G G A L T P L I I R E K T T G I P I L A G G G F I R T T E E D V E R N A L L E A G A UniRef90_I4X0S4 E V L P G G V V P K V I L K E E A T G T P I F A G G G L I R E T K E E D V I Q L A Y D G G A UniRef90_UPI0001850DBA E V L P G G A L T P L I I R E K T T G I P I L A G G G F I R T T E E D V E R N A L L E A G A UniRef90_W2EAR7 E V L P G G A L T P L I I R E K T T G I P I L A G G G F I R T T E E D V E R N A L L E A G A UniRef90_D5DAB7 E V L P G G A L T P L I I R E K T T G I P I L A G G G F I R T T E E D V E R N A L L E A G A UniRef90_A0A024DL38 E V L P G G L M P K Y I V K E K T G R L V I F A G G G L I D T V E E D V E Q A I E A G A UniRef90_U6BAX0 E V L P G G I M P P K V I K K I C N G I P V I F A G G G L I S R T D K E E D I M Q A L A G A UniRef90_A9KSR2 E V L P G G V V P E L I V K E I T N G I P V I F A G G G F I S R T S E K D V E Q A L A G A UniRef90_Q65M13 E V L P G G G M P N L I V K E R T S L P I L A G G G F I S R T S E D V E L A L Q A G A UniRef90_S9TDT1 E V L P G G V V P H M I V K E E V I E P V I F A G G G L I R T T V E E D V E N A L L A G A UniRef90_UPI0004776875 E V L P G G I V P K Y I H E R T G I P V I F A G G G L I R E T A E E D V E Q A A L D A G A UniRef90_UPI00047A5123 E V L P G G A M P H I I R E V K E K P V I Y A G G G L I R T T V D D V E R A L L E A G A UniRef90_L7ZZS3 E V L P G G V V P N L I K E D R T Q K P V I L A G G G L V R T T Y S D V E E T A L K A G A UniRef90_UPI0003F75177 E V L P G G T M P W M I K E E V K E K T P I F A G G G L I R T T P E E E V K R A I E A G A UniRef90_UPI000374A9C2 E V L P G G T M P W M I K E E V K E K T P I F A G G G L I R T T P E E E V A N A I E A G A UniRef90_UPI00031F9E2B E V L P G G V M P H I I K E E V Y E P I L A G G G L I R E T K E E D V I A R A N D A G A UniRef90_W4Q2X6 E V L P G G A M P W M I K E E V I E Q P V I L A G G G L I R T E E E D I K N A L A G A UniRef90_J8TI16 E V L P G G I I P H I I K E E V I E Q P V I L A G G G L I R D P E E E V R R A L A G A UniRef90_UPI0003F7676D E V L P G G I A P W M I V K E R L G I P I F A G G G L I R T R E D V I E K A L K D A G A UniRef90_F7Z1T9 E V L P G G V M P K V I R Q M A E V P I F A G G G L I S D K K E D I I A A L A G A UniRef90_R5U459 E V L P G G L M P K M I I R K S I R R P L I A G G G L I S D K K E D I M A A L A G A UniRef90_R5RB49 E V L P G G V M P K H I I K E I K E E P I F A G G G L I S R S K R D V I E M A L A G A UniRef90_UPI00040D2E46 E V L P G G V M P K I I R K I T G E P I L A G G G L I S D K K E D V C N A L A G A UniRef90_R7RAF0 E V L P G G A M P A I I T E V F E T P I L A G G G L I R T I D D V N M A L Q G G A UniRef90_M8DYK1 E V L P G G V M P K I T H R I L C C Q V P V I A G G G L I S D K E D I M A A L S A G A UniRef90_R6RWX4 E V L P G G A M P K V I H R K L C C C N V P V I A G G G L I S D K E D V M N A L N A G A UniRef90_R7DC54 E V L P G G V M P K V I R K I V Q Q E P V I A G G G M I S D K E D V I A S L K A G A UniRef90_R5TXZ5 E V L P G G I M P K V I K E L H K K P I F A G G G L I E S A E E V E Q A L A G A UniRef90_V2XYR2 E V L P G G I L P G M I V K E T L E I P I A G G G L V R T A G E E D E A L S A G A UniRef90_UPI00047DE23E E V L P G G V I P H M I V K E R T G I P V I A G G G L V R T V E E V D E A V L A G A UniRef90_G9QIN4 E V L P G G V M P R V I K R I I C K T P I A G G G L I R T D K E E D V M A A L S A G A UniRef90_K2FQ48 E V L P G G L I P D D M I H E E I T G T P V I A G G G L I R T K E E D I R K A F A G A UniRef90_UPI00037C265E E V L P G G I M P K D T H E E T R I P V I A G G G L I K T R E E D V I G S L N A G A UniRef90_R7FYW8 E V L P G G R M P S I I K E I Y E V P V I A G G G L I K T E E D V S A L L K A G A UniRef90_UPI000287EB6B E V L P G G I I P H I I K E R T K I P V I A G G G F I R T K E E D V D R A L Q A G A UniRef90_UPI00047E6634 E V L P G G L V P K I I V K E L T K I P V I A G G G L R T R K Q E L E S A L E A G A UniRef90_A0A024PL62 E V L P S P M L P Y L K E W K T G L P L L A G G G F I R T E D D V N R A L Q A G A UniRef90_L5MUD5 E V L P G G L M P K I I T K R L S N E P V I A G G G L I T D K E D I M N A L A G A UniRef90_UPI0003B527A3 E V L P G G I L P G I L T K E V H E K P V I A G G G L I R S E Q D V L Y A L E N G A UniRef90_H3SDY9 E V L P G G T M P W M I I K N S L N V P I A G G G L I R T E E D V R K A I E A G A UniRef90_E3H8W6 E V L P G G V M P K I I K A R I C R T P V I A G G G L A D K E D I M A A L S A G A UniRef90_UPI0003FE4249 E V L P G G V M P H I I V K E R T G I P I F A G G G L R S V E D V D R A I E A G A UniRef90_R9C624 E V L P G G V V P K V I R R I C R L P V I A G G G L T D R E D I M A A L N A G A UniRef90_UPI00047588CF E V L P G G V V P H I I K E V K K K P V L A G G G L I R A E H E I K K A L A G A UniRef90_Q9KDX0 E V L P G G I M P H M I L K D R L D I P I L A G G G L R T E A D V T R A L A G A UniRef90_UPI00047A616A E V L P G G A M P W I I K E I K E I P I F A G G G F I R T I E E A E N S A L D A G A UniRef90_UPI0003738625 E V L P G G L V P K I I V K E L T V P I I T G G F I E T E E E V E R S C I Q D A G A UniRef90_UPI0001E89B97 E V L P G G L L Y K A I I H K V T G K K I I A G G G L I E Y P E E E V E K A L A G A UniRef90_U2CIG1 E V L P G G M M P K V I G N I L C K Q V I A G G G M I R E K E D V I M A L L K A G A UniRef90_UPI0003021B0C E V L P G G V M P K I I H Q I S S Q V P V I A G G G L I R T K K N A M D S L A G A M UniRef90_UPI0002881A80 E V L P G G L M P N L I E E V H G I P V I A G G G L I R T K E D V I K M A L A G A V UniRef90_UPI0003F829FB E V L P G G I A P Y F I E H V Y K E P V I A G G G L I S D K N E I E R A V S S G A UniRef90_UPI000312EEAB E V L P G G I A D K V I Q E I H Q K P V I A G G G L I N T P E E E V E R A V S S G A UniRef90_E3GPD5 E V M P G G V I P H I I A E M H D T P I L A G G G L I R T N E D V E L A L S S G A V UniRef90_B9EBI6 E V M P G G I A S K N I I A E N K V K V P I A G G G L I N N K K D V L E A L S S G A V UniRef90_D4M2D6 E V L P A L M P K V V K R R I S Q I P V I A G G G L V S D K E D V M S L L Q A G V UniRef90_R9IJ16 E V L P G G L P G M I T K D R L G V P V I A G G G L I R T D E E V E K A L A G A UniRef90_J0X134 E V L P G G V M P K I I R E L H N I P V I A G G G L I A R D K E E D V M N A L E A G A UniRef90_I8UA11 E V L P G G L I P D V I I N D E T G L P V I A G G G L I R S S A E A S S A L A G A V UniRef90_X0RNG0 E V L P G G V M P K I I K Q V K E E P V I A G G G L I K D K E D V I E S L K A G A UniRef90_E8SGK2 E V L P A L M P K V I A K V C C Q T P V I A G G G L V S E K E D I L A L L A G A T UniRef90_UPI000248CE89 E V M P G G I V P A W V Y D E L R E L P I V A G G G L I R Q A G D V V E Q A L A G A UniRef90_U2CMK2 E V L P G G V M P H I I A E I R E R P I L A G G G L I R T S A E V E Q A L S A G A UniRef90_D4J677 E V L P G G I P N I I K E I Y G I P V I A G G G L I R T K E D V I K A A L N N G A UniRef90_L5NBY4 E V L P G G L A S K V I H E Q V H I P I V I A G G G L M C D K K F D I S A L S A G A UniRef90_COD9H2 E V L P G G V M P K I I K K I C C K I P V I A G G G L V M D K E D V I M A L S A G A UniRef90_UPI00026264B4 E V L P G G I M P K S I V K E I V R K P I A G G G L I S R T K E E D V T N A L K S G A UniRef90_C5VNL1 E V L P G G V I P H I V S N I H N I K P I A G G G L I R T Q Q D V D E A I Q A G A UniRef90_A0A011AWU2 E V L P G G V L Q P K I I R Y I T K V I M C A G G G L V T V K E E D V H C A Q S G A UniRef90_G2T1W0 E V L P G G V M P E V I R E I S D R P V L A G G G F I R S V E D V N R V L Q G A S UniRef90_S3FGZ0 UniRef90_F5SCW9 UniRef90_UPI00035E22AD UniRef90_UPI00030DCE0C UniRef90_R7RTQ7 UniRef90_R6PXZ3 UniRef90_A6NR62 UniRef90_D3T494 UniRef90_UPI000314E664 UniRef90_R5Z5M1 UniRef90_Q8ENK5 UniRef90_UPI0003FAEBE7

QUERY	A	I	S	T	S	S	R	I	L	W	K	M
UniRef90_F5LPF9	A	V	T	T	S	D	S	S	L	W	K	
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UniRef90_UPI00046EA8D4	A	I	T	T	S	N	T	H	L	W	D	
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UniRef90_C5D311	S	V	T	T	S	N	R	D	L	W	K	
UniRef90_U4VNX2	A	V	T	T	S	R	K	E	I	W	H	
UniRef90_A8FBE8	A	V	T	T	S	N	T	T	L	W	K	
UniRef90_W9ABX4	A	V	S	T	S	N	K	S	L	W		
UniRef90_UPI000380F3A5	A	V	T	T	S	R	R	E	L	W	Q	I
UniRef90_UPI00036AA843	A	V	S	T	S	R	K	G	L	W	D	
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UniRef90_W2EAR7	A	V	T	T	S	T	P	E	L	W	D	L
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UniRef90_Q65M13	A	V	T	T	S	D	T	D	L	W	K	
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UniRef90_UPI0003F75177	S	V	T	T	S	N	K	D	L	W	K	
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UniRef90_UPI00031F9E2B	A	I	T	T	S	K	M	D	L	W	K	
UniRef90_W4Q2X6	G	V	T	T	S	R	Q	E	L	W		
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UniRef90_UPI0003F7676D	A	V	T	T	S	R	K	E	L	W	E	
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UniRef90_R5TXZ5	A	I	S	V	T	N	Q	R	V	W	F	M
UniRef90_V2XYR2	C	V	S	T	S	C	E	E	L	W	Q	
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UniRef90_E3H8W6	G	V	S	T	T	K	T	Q	L	W	D	V
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UniRef90_UPI0003021B0C	A	V	T	T	S	N	E	E	L	W	K	
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UniRef90_D4M2D6	S	V	S	S	T	N	P	E	I	W	F	
UniRef90_R9JI6	S	V	S	T	T	N	Q	E	I	W	F	M
UniRef90_J0X134	G	V	S	T	S	C	K	T	L	W	N	M
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UniRef90_G2T1W0	S	I	S	S	T	N	E	K	I	W	F	L
UniRef90_S3FGZ0	T	V	T	T	S	D	Q	T	L	W	R	
UniRef90_F5SCW9	A	V	S	V	S	G	G	D	L	W	N	L
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UniRef90_UPI00030DCE0C	A	V	T	T	S	N	K	D	L	W		
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UniRef90_R6PXZ3	S	V	S	T	T	N	Q	D	V	W	L	M
UniRef90_A6NR62	A	V	S	S	T	N	P	A	V	W	N	M
UniRef90_D3T494	A	V	S	T	S	E	K	S	L	W	F	I
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UniRef90_R5Z5M1	A	V	S	T	T	R	K	D	L	W	D	L
UniRef90_Q8ENK5	A	V	S	T	S	N	T	T	L	W	K	
UniRef90_UPI0003FAEBE7	G	V	T	T	S	S	R	Q	I	W	N	

	1	10	20	30	40																																							
UniRef90_R6FNU1	R	K	V	A	A	V	R	D	F	E	L	A	L	K	S	R	V	D	V	I	F	L	L	Y	S	S	I	M	N	I	K	G	Y	I	D	K	C							
UniRef90_HODIQ5	P	A	I	R	T	M	K	D	L	E	K	L	I	Q	S	T	D	Y	K	E	C	V	V	L	L	D	T	H	G	H	L	K	S	T	M	E	L	L						
UniRef90_R7ALY3	N	P	V	I	A	A	I	K	D	L	E	K	A	I	L	K	G	T	D	C	C	E	I	I	F	I	L	F	G	D	V	P	D	S	I	V	E	R	I					
UniRef90_D4IZB6	N	P	V	I	A	A	I	K	N	L	H	Q	C	L	T	C	D	S	R	V	I	F	I	L	Y	G	D	V	C	C	C	N	I	A	D	N	I	V	D	T				
UniRef90_R7R1T0	Q	P	I	I	P	A	M	K	F	F	A	I	L	D	S	D	Y	K	F	G	V	F	F	L	Y	D	T	H	D	A	Q	L	R	N	D	I	L	Y	Q	M				
UniRef90_UPI0004068E7E	N	P	V	I	A	A	V	K	D	L	H	K	C	L	F	E	S	D	C	Q	M	V	F	V	L	Y	G	N	I	N	I	P	R	E	I	V	R	E	T					
UniRef90_R5HMS4	N	P	V	I	A	A	V	K	D	L	H	K	C	L	F	E	S	D	C	Q	M	V	F	V	L	Y	G	N	I	N	I	P	R	E	I	V	R	E	T					
UniRef90_UPI000464A485	N	P	V	I	A	A	V	K	D	L	H	K	C	L	F	E	S	D	C	Q	M	V	F	V	L	Y	G	N	I	N	I	P	R	E	I	V	R	E	T					
UniRef90_R6IQ03	N	P	V	I	A	A	V	K	D	L	H	K	C	L	F	E	S	D	C	Q	M	V	F	V	L	Y	G	N	I	N	I	P	R	E	I	V	R	E	T					
UniRef90_R6LIC7	N	P	V	I	A	A	V	K	N	M	D	L	L	K	L	C	S	D	R	V	V	F	V	L	F	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_E6MJW4	N	P	V	I	A	A	I	R	D	T	H	A	V	D	S	D	P	C	Q	V	V	F	V	L	L	T	G	N	I	Y	N	I	K	P	M	V	D	L	V	V				
UniRef90_R6P3D9	M	D	A	P	I	A	A	A	K	L	E	Q	S	L	E	S	D	S	S	V	F	V	L	L	F	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_R6G6Y3	N	P	V	I	A	A	V	K	D	L	E	E	C	L	L	E	S	D	S	G	M	V	F	V	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_UPI0003B4EE5C	N	P	V	I	A	A	V	K	D	L	E	S	A	L	K	T	D	C	G	T	I	F	I	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_R6NMA1	N	P	V	I	A	A	I	K	D	L	H	Q	C	L	T	C	D	S	R	V	I	F	I	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_UPI00046EEC63	N	P	V	I	A	A	L	P	H	L	Q	C	L	H	S	C	S	V	N	V	V	F	V	L	L	F	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_W4QD48	P	A	V	R	N	M	K	D	F	E	T	F	L	K	S	H	Y	D	Y	G	V	F	L	E	L	H	M	S	Q	I	K	A	V	F	E	N	E	M	A					
UniRef90_Q8R8J3	P	V	I	A	A	V	K	D	V	L	E	E	A	L	E	S	S	N	T	Q	V	I	F	L	L	S	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_Q9X1E5	N	P	V	I	P	A	V	K	D	L	E	E	A	L	E	S	S	N	T	Q	V	I	F	L	L	S	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_UPI0004782942	R	T	I	I	P	A	V	R	Q	P	E	D	L	G	A	S	D	W	P	V	L	F	L	L	T	G	N	I	F	T	V	E	E	D	Y	V	K	Q	A	A				
UniRef90_A4XJL3	N	P	V	I	P	A	V	R	D	L	Q	S	A	L	N	S	D	C	R	V	I	F	L	L	H	S	T	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T	
UniRef90_R9NEI8	N	P	V	V	A	A	V	K	D	S	E	G	L	A	R	C	D	L	Q	A	V	F	I	L	L	H	S	T	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T
UniRef90_A8GEM6	L	H	P	V	I	A	A	V	K	D	L	Q	A	V	K	S	D	C	R	I	S	V	L	L	Y	G	N	I	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_UPI000404A5DE	N	P	V	I	A	A	I	R	N	L	E	D	I	K	D	L	S	N	C	E	V	I	F	L	L	R	S	S	L	M	S	V	K	D	Y	V	S	R	I	I	I			
UniRef90_I3VUL8	N	P	V	I	A	A	I	R	N	L	E	D	I	K	D	L	S	N	C	E	V	I	F	L	L	R	S	S	L	M	S	V	K	D	Y	V	S	R	I	I	I			
UniRef90_R5XAJ2	N	P	V	I	A	A	V	K	D	L	K	C	L	E	S	E	I	Q	I	V	F	V	L	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_T0PD60	N	P	V	I	A	A	I	R	N	L	E	D	I	K	D	L	S	N	C	E	V	I	F	L	L	R	S	S	L	M	S	V	K	D	Y	V	S	R	I	I	I			
UniRef90_R5GCN8	N	P	V	I	A	A	I	R	N	L	E	D	I	K	D	L	S	N	C	E	V	I	F	L	L	R	S	S	L	M	S	V	K	D	Y	V	S	R	I	I	I			
UniRef90_U5LJZ3	M	F	T	G	I	P	A	M	K	D	F	E	H	V	L	K	R	D	H	E	H	I	L	L	E	T	R	L	S	Q	I	E	S	V	V	K	Y	A	A	A				
UniRef90_U2B5E1	N	P	V	I	A	A	V	K	D	L	E	E	C	L	L	E	S	S	Q	V	I	F	V	L	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_UPI00028870D1	N	P	V	I	S	A	V	K	D	M	D	K	A	L	E	S	S	D	S	K	V	F	V	L	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_D7N7M6	N	P	V	I	L	A	V	K	N	E	E	A	L	K	E	D	A	K	L	V	F	L	L	L	F	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T			
UniRef90_UPI0003FFC600	P	A	A	K	S	M	K	D	F	E	A	M	I	E	G	P	T	Y	G	V	F	L	L	D	N	T	H	V	A	Q	L	H	S	V	L	M	E	E	A	A				
UniRef90_D6XXK3	H	P	L	I	R	D	L	K	D	L	D	R	V	M	K	T	D	Y	E	H	I	V	L	L	N	T	H	V	A	Q	L	K	S	L	M	K	M	L	L	L				
UniRef90_J0W2S5	I	I	P	A	I	A	A	K	D	L	Q	L	A	L	E	S	D	C	Q	V	I	S	V	L	L	Y	G	N	I	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_UPI00030CCD06	N	P	V	I	A	A	V	K	D	L	E	E	C	L	L	E	S	S	F	E	Y	G	V	F	L	L	N	F	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T
UniRef90_R6RXQ7	N	P	V	I	A	A	V	K	D	M	D	G	V	K	C	E	I	K	V	F	I	L	L	L	H	S	T	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T	
UniRef90_D3UMZ0	N	P	V	I	P	A	A	K	D	M	E	K	I	L	E	L	D	V	T	Y	M	V	M	L	E	T	H	V	A	Q	L	K	S	L	I	K	Y	A	A	A				
UniRef90_UPI00047216AF	N	P	V	I	A	A	V	K	D	E	E	G	V	E	T	C	E	S	K	V	I	F	V	L	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_A0A017RVN7	N	P	V	I	A	A	I	R	N	L	E	N	V	C	E	S	K	A	K	I	V	F	V	L	L	Y	G	N	I	N	L	N	L	K	S	I	C	N	K	L	L			
UniRef90_L7WXC1	N	P	V	I	R	N	M	K	D	L	D	K	L	I	K	E	Y	K	S	C	V	L	L	L	D	M	H	I	G	H	L	K	S	I	L	D	L	L	L	L				
UniRef90_U2Q085	N	P	V	V	A	A	V	K	D	L	E	E	A	I	Q	S	D	V	K	I	V	F	V	L	L	F	G	S	D	I	N	V	N	A	Q	I	C	R	Q	L	L			
UniRef90_L5N6G3	N	P	V	I	S	A	V	K	D	L	D	K	A	I	K	S	P	C	K	L	I	F	L	L	A	G	S	D	I	F	N	L	K	Q	I	V	E	K	A	V				
UniRef90_R1CGX9	N	P	V	I	P	A	V	K	D	F	E	Q	L	L	D	S	R	F	T	Y	I	V	L	L	E	S	H	L	T	Q	L	P	S	L	I	R	T	A	A					
UniRef90_T0CZF6	Q	R	I	I	P	A	I	K	E	F	E	Q	L	L	D	S	R	F	T	Y	I	V	L	L	E	S	H	L	T	Q	L	P	S	L	I	R	T	A	A					
UniRef90_UPI00040D9C59	Q	R	V	I	P	A	I	K	E	F	E	Q	L	L	D	S	R	F	T	Y	I	V	L	L	E	S	H	L	T	Q	L	P	S	L	I	R	T	A	A					
UniRef90_U7PEW8	P	A	I	R	E	M	R	D	L	E	K	L	V	K	T	D	Y	P	T	C	V	L	L	D	A	H	I	G	H	L	Q	S	I	T	D	L	L	L	L					
UniRef90_D3FUE8	P	A	I	K	R	M	K	D	F	E	K	V	L	S	N	N	D	E	Y	M	V	M	L	D	D	S	R	L	A	Q	L	G	A	V	M	N	Q	T	A					
UniRef90_I0JQF5	P	A	V	K	R	K	I	K	D	F	E	A	L	L	D	S	E	T	E	Y	I	J	L	L	D	D	S	R	L	A	Q	L	R	K	V	L	R	I	G					
UniRef90_L0EHD7	K	P	V	I	T	S	I	N	D	L	E	P	V	L	R	T	A	S	N	I	V	F	L	L	T	G	N	I	F	T	L	K	G	I	T	E	R	V	L					
UniRef90_C5EQ20	N	P	V	I	P	A	I	K	D	L	E	A	C	N	E	S	E	S	E	I	V	Y	L	L	L	Y	G	N	I	C	C	C	N	I	P	R	E	I	V	R	E	T		
UniRef90_A5I5K4	N	P	V	I	A	A	I	K	D	L	E	A	C	N	E	S	K	A	N	I	V	F	V	L	L	Y	G	N	I	N	I	K	S	I	C	H	D	T	L	L				
UniRef90_UPI000415B5D7	Q	K	I	L	P	A	Y	K	D	F	E	K	F	L	E	S	P	Y	E	I	G	I	F	L	D	L	H	I	A	Q	L	K	H	V	A	K	M	A	A					
UniRef90_D4MPW5	N	P	V	I	A	A	V	K	D	L	E	K	C	L	L	E	S	S	D	I	Q	I	V	F	V	L	L	Y	G	D	V	C	C	C	N	I	P	R	E	I	V	R	E	T
UniRef90_UPI0003B4CC20	P	L	V	A	A	I	K	N	L	E	V	C	L	K	T	D	I	D	V	I</																								

	50	60	70	80
UniRef90_R6FNU1	H K A G K K L L F L	H M D F L V E G L G K	D R A G L E F L	K Y Q G V D G I L T T K M
UniRef90_HODIQ5	K K A H V E T Y M	H I D L I K G L M S H	D E Y A C E F I	Q H Y H P K G I V S T T K M
UniRef90_R7ALY3	K D A G K V L A L V	H I D L M I K G L L S	T K R E V I A V D F F I	A N T Q A D D G G I I S T T K K
UniRef90_D4IZB6	K S A D G K L A M V	H I V D L I T G G L N	N A K K E I L A V V D F F I	K K Y R A D D G G I I S T T R K N G
UniRef90_R7R1T0	K S A G K L A L V	H L D L I V T G G L N	N A K K E I L A V V D F F I	K K Y R A D D G G I I S T T R K P
UniRef90_UPI0004068E7E	R G S G K K N M L L	H A D L I V T G G L N	K N S K D E Y A A Q D F F I	Q E I K A P F D G G I I S T T R A P
UniRef90_R5HMS4	K G S G K L A M V	H I D L I V A G L L S	S S K E I L A V V D F F I	K Q K Y K A D D G G I I S T T T K P
UniRef90_UPI000464A485	K E H G K Y A T V	H A D L L A A G L L S	S S K E I L A V V D F F I	K N T F A D D G G I I S T T K P
UniRef90_R6IQ03	K T A G K T V F V	H A D L L I E S G L S	S S A R K E A A V V D F F I	L H A R A P D D G G I I S T T R L
UniRef90_R6LIC7	K D S G K V A M V	H V D L L I S E G L S	S S K E I L V V D F F I	L K N T E A D D G G I I S T T R L
UniRef90_E6MJW4	N A A G K Y A F V	H L D L L K G Y A E D	H Y F I R Y F L R K K	I R P T G I V S T T R N A
UniRef90_R6P3D9	K Q K D K V A V V	H I D L I D Q G L S	A A R E A G A V D F F I	K Q T T R V D D G G I I S T T K A
UniRef90_R6G6Y3	K D Q G K I A V V	H I D L I D Q G L S	A A G K D A A V D F F I	K K T Y R A D D G G I I S T T T K P
UniRef90_UPI0003B4EE5C	K D A G R L A M V	H I V D L I T G L N	N S K K V S L D F F I	K N T K A D D G G I I T T T K S
UniRef90_R6NMA1	K A A G K T A M V	H I D L I N D G L S	G K D E L A V D F F I	R R K Y H A D D G G I I T T T K P
UniRef90_UPI00046EEC63	K D R G K R V F V	H I D L I D G L S	G K D L A A V D F F I	L R R Y T Q V D D G G I I T T T K N A
UniRef90_W4QD48	K M K E K K M F L	H A D L V Q G L K	N D E T Y A A E Y L Q E E	V E P Y G L I S T T R K A N
UniRef90_Q8R8J3	K K N G K L A F V	H F D L I V E G L S	G K D T K A V E Y L A E I	K P H G I S T T R N
UniRef90_Q9X1E5	K N G K K E V F V	H V D L V K G L S	L D R C S L E Y F L R E I	I G V D G G I I S T T H
UniRef90_UPI0004782942	D S A G K K V F L	H V D F L A G L S	N D S V A V L E Y F L A D V	R G P T G I I S T T K S
UniRef90_A4XJL3	K Q K N K L V F V	H I D L I E G V S	G K D E K G I E F L K S	T G A D D G G I I S T T R Q
UniRef90_R9NEI8	K E S G K L A V	H I D L L E G L S	S S K E I L A V D Y I K E T	A D D G G I I T T T K P
UniRef90_A8GEM6	K E A G K Y A F V	H V D L L E G S S	S S K E I V I N E F L K V	T A A D D G G I I S T T K T
UniRef90_UPI000404A5DE	K A A G K Y A F V	H V D L M E G T S	S S K E I V L E Y F L A M T	D A D D G G I I S T T K A
UniRef90_I3VUL8	K L H G K T A F V	H F D L V E G L S	G K D Y K A V E Y L K E	V K P A D D G G I I S T T R A S
UniRef90_R5XAJ2	K E G G K T V I	H L D L I S G L G	N R E I V V D Y I K N T	K A D D G G I I S T T K S
UniRef90_T0PD60	K K A G K T I F V	H A D L I D G L R	G D K V G I E F F I K S	T Y A P D D G G I I T T T K V
UniRef90_R5GCN8	K D A G K L A I V	H V D L I V G L S	S S K E I L V V D F F I K S	T E A D D G G I I S T T K V
UniRef90_U5LJZ3	K Q S G K K V F V	H A D L V Q G L K	V D E Y G I E Y L N N	V K V D G G I V S T T R V
UniRef90_U2B5E1	K D A G K L A M V	H I D L I A G L S	G K E V A V D Y I K E T	L A D D G G I I S T T K M
UniRef90_UPI00028870D1	K E K N K L A I V	H I D L I D G L A	N R D I V I T F I K N T	S A D G G I V I S T T K S
UniRef90_D7N7M6	K E G K Y A I V	H I D L I E G L S	S S K E I V A V D F F I K K	Y K A D D G G I I S T T R P
UniRef90_UPI0003FFC600	R R R D K K I L L	H A D L V Q Q G L	K N D E Y A A Q F L Q D	H I R P A F G L V S T T R A K
UniRef90_D6XXK3	K S Y D K K V L L	H A D L V Q Q G L	K N D E Y A A Q F L R D	I K P A F G L V S T T R A K
UniRef90_J0W2S5	K K A N K Y A L V	H V D L L E G T S	N K E I V I N F L K L	T Q A D G G I V I S T T K A
UniRef90_UPI00030CCD06	K Y Q K K I M I	H A D L I Q Q G L	S K N D D Y A T D F F I Q E	E F K P A D D G G I I S T T R A
UniRef90_R6RXQ7	R A H G K V A M V	H M D L V S G L S	G K G E V A V D F F I K N	T R A D D G G I I S T T K P
UniRef90_D3UMZ0	Q S G G K K V L L	H A D L V N G L K	N D E Y A I D F F I K E	I C P D D G G I I S T T R G
UniRef90_UPI00047216AF	K E A G K T A L V	H I D L I T G L S	A K E A A V D Q F I K N	T S A D D G G I L I S T T K P
UniRef90_A0A017RVN7	K E N R K V F V	H I D L M M E G I	R G D F L G I E Y F L K K	A S P F G L I T T T K P
UniRef90_L7WXC1	K N K G I E C Y I	H I D L I K G L S	H D E Y S C E Y I Q Q	Y K P K G I V S T T K T
UniRef90_U2Q085	K E H S K I V F V	H I D L I E G L S	K G D S K G L E Y F V K K	I E P Y G I V S T T K P
UniRef90_L5N6G3	K T H G K L A F V	H I D L L E G T S	N K D E V S L Q F Y L K K	N T Q A D D G G I I S T T K A
UniRef90_R1CGX9	R D N E M Q I Y V	H I D L I D G G F	S K D M V A L R Y F L E N	N K P D D G G I I T T T K S
UniRef90_T0CZF6	K Q H D K K L L	H A D L I Q Q G L	K H D E S A A Q F L C C	Q M K P A G G L I S T T H A
UniRef90_UPI00040D9C59	R R Q G K K V L L	H A D M I Q Q G L	K H D E S A A Q F L C C	Q Y R P A G G L I S T T H A
UniRef90_U7PEW8	K Q H R M E M Y I	H V D L T R G I A	H D E F G C E Y L Q K	F K P K G I V S T T K P
UniRef90_D3FUE8	K R A N K K V I L	H A D M I Q Q G L	R N D K Y S T E F V Q Q	E V K P A D D G G I I S T T R G
UniRef90_I0JQF5	Q A G K K V L V	H V D L I Q Q G L	K A D D Y G M E Y F V Q Q	E V K P A D G G I V I S T T R T
UniRef90_L0EHD7	Q D A G K L M F V	H I D L M E G L G	K D A E S V R Y L A E	I N V D G G I V I T T T R S
UniRef90_C5EQ20	K S M G K Y V V V	H V D L I E G L A	L K E I S V D F F I K K	E K A D D G G I I S T T K P
UniRef90_A5I5K4	K E K E K K I F V	H V D M I E G L K	G D S A G I E Y F L K K	E C E L D G G I I S T T K T
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UniRef90_L7VM46	K K A G K H A V I	H I D F L E G L I	G R D N S A L D Y I C C	Q Q P D G G I I S T T K N G
UniRef90_UPI00047B5DE3	R S K G K K L L L	H A D L I Q Q G L	K N D K Y S A E F L C C	Q C K P A D G G I I S T T R G
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UniRef90_F4LVQ9	K R A D K R V F L	H I D L L E G L I	S K D G M G I K Y I Q E	E K P A D D G G I I T T T R A
UniRef90_R6EQT9	H R A G K L A M V	H M D L I E G L S	S K E I S V D Y L K Y	T H A D D G G I L T T T K N
UniRef90_F7YYP2	H R A S K Y V F V	H L D L I K G L S	G K D E A A V K Y L R E	A K A D D G L I T T T K G
UniRef90_Q46906	K N A G K Y A F I	H V D L I E G A S	N K E V V I Q Y F L K L	T E A D D G G I I S T T K A
UniRef90_W2BZW5	H G A G K K A F V	H V D F A E G I	G R D R A G L E Y F L K K	M G V D D G G I C T T T R T
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UniRef90_G0V3Q3	K N S G K K V F A	H I D L I E G L S	K D E Y A V K Y L K L	V G V D D G G I I T T T K P
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UniRef90_W4QD48	A	V	T	T	S	N	T	S	L	W	R
UniRef90_Q8R8J3	A	V	S	T	S	E	K	S	L	W	F
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UniRef90_R9NEI8	A	V	S	T	T	N	Q	D	V	W	K
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UniRef90_A0A015KR98	A	I	T	S	S	R	E	L	L	W	

	1	10	20	30	40																																					
UniRef90_W4VGL9	P	A	I	R	T	M	K	H	F	E	H	L	L	K	S	E	H	E	L	L	I	L	L	D	T	R	I	A	Q	L	P	Q	I	V	Q	H	A					
UniRef90_A6LKM9	P	I	V	P	A	I	R	D	L	E	K	I	V	Q	K	E	P	V	S	S	V	F	L	L	E	G	D	I	F	N	T	Q	N	A	T	Q	K	L				
UniRef90_W7ZVZ0	P	A	V	N	A	M	K	D	F	F	E	R	V	M	K	E	E	G	V	Y	F	V	V	L	D	V	H	L	L	L	A	K	M	K	K	L	S					
UniRef90_V2Y2S8	P	V	I	A	A	V	K	D	L	E	K	R	S	L	M	R	T	E	D	C	R	I	F	I	L	Y	G	N	L	T	T	T	A	T	Q	K	L	S				
UniRef90_R5J2P5	N	P	V	I	A	A	V	R	D	D	E	Q	L	R	T	D	T	Q	T	V	F	V	L	L	Y	G	D	L	C	N	I	S	E	I	V	R	Q	I				
UniRef90_L0EA11	P	A	V	A	R	H	P	K	E	L	E	R	F	L	L	K	T	S	D	V	I	A	L	F	L	L	C	G	R	D	L	F	G	Q	L	P	E	M	V	K	L	A
UniRef90_B8CWA1	H	P	V	I	A	G	I	R	D	L	E	N	F	A	L	L	K	S	D	V	I	A	L	F	L	L	C	G	R	D	L	F	G	Q	L	R	P	L	V	E	L	A
UniRef90_UPI00040F4BC2	P	A	V	R	T	A	K	E	L	E	G	V	L	A	S	A	P	F	V	Y	L	V	L	L	G	G	H	L	F	G	Q	L	R	P	L	V	E	L	A			
UniRef90_M1YVE5	N	P	I	A	A	L	H	L	D	K	V	L	Q	S	P	F	K	L	V	F	L	L	L	T	G	N	L	L	N	L	G	F	L	V	D	S	L	L				
UniRef90_V6J198	Q	K	I	P	A	V	N	N	M	E	K	L	L	E	Q	S	P	F	Q	N	L	I	L	L	T	G	N	H	L	S	L	I	A	T	M	V	Q	M	G			
UniRef90_UPI000225BD5A	I	I	P	V	I	G	E	M	K	D	V	D	K	L	A	T	Y	N	Y	E	Y	F	A	V	L	D	A	H	I	S	R	L	R	P	T	F	Q	M	A			
UniRef90_UPI0003B7AD7C	I	I	P	V	I	A	A	V	K	D	L	T	K	A	L	S	C	D	Y	G	T	F	I	L	L	T	G	N	L	C	N	L	G	D	I	V	E	K	V			
UniRef90_UPI0002E465C9	I	I	P	A	I	R	N	I	K	E	F	N	Q	A	L	L	S	N	Y	Q	V	G	I	F	M	D	F	H	I	A	Q	M	K	S	L	Y	E	V	A			
UniRef90_D5WR47	I	I	L	S	V	H	E	I	E	T	A	L	D	A	T	S	P	V	E	D	V	F	L	L	I	G	D	V	C	T	L	P	G	Y	M	E	Q	L				
UniRef90_UPI00047C6313	N	P	I	A	G	I	K	D	L	K	T	A	L	L	E	T	S	C	K	I	V	F	V	L	L	N	S	T	M	N	V	A	S	I	V	A	S	R	I			
UniRef90_UPI0002554C38	N	P	V	I	S	A	V	K	S	A	E	A	L	L	E	T	S	S	D	L	V	F	V	L	L	G	D	I	L	S	I	P	A	T	V	A	R	I				
UniRef90_B9DPA9	P	A	V	R	E	M	K	D	L	E	K	L	M	K	T	D	Y	Q	K	C	V	L	L	D	A	H	L	G	H	L	Q	G	E	M	D	L	L					
UniRef90_UPI000248D2B6	K	R	I	P	A	V	R	D	L	E	Q	A	A	C	A	S	E	W	P	V	V	F	V	L	L	I	G	D	L	V	S	A	G	E	Y	V	E	T	A			
UniRef90_A0A037ZFB2	N	N	P	V	I	A	A	L	R	D	L	E	N	V	I	A	N	S	K	A	L	I	V	F	V	L	L	G	N	I	L	M	S	I	S	S	K	I	E	K	L	
UniRef90_C6Q2W9	N	N	P	V	I	V	A	I	R	D	L	E	K	A	L	L	S	K	A	S	I	V	F	V	L	L	Y	G	D	I	L	T	I	S	S	N	I	C	S	R	L	
UniRef90_S0J712	Q	K	M	I	A	A	V	E	G	L	E	K	A	L	L	S	K	A	S	I	V	F	V	L	L	F	G	D	I	C	N	L	S	E	I	V	A	K	V			
UniRef90_M8D850	P	V	L	P	A	V	K	E	L	D	R	A	L	C	H	D	G	A	A	V	F	L	L	C	G	D	I	L	N	I	G	E	L	V	D	R	V					
UniRef90_R6H0G3	P	A	A	R	T	M	K	Q	F	E	R	L	L	D	S	N	F	E	Y	I	V	L	L	E	V	H	L	S	N	V	R	K	T	L	K	Q	E	A	L			
UniRef90_F9DR96	N	V	I	A	I	R	N	L	K	R	L	V	L	S	N	A	N	I	V	F	I	L	L	Y	G	D	I	L	S	L	S	N	V	R	D	I	C	S	K	L		
UniRef90_W6N8E4	A	I	R	T	E	K	D	F	S	K	A	L	K	D	S	R	V	D	V	V	F	L	L	H	S	N	I	I	T	V	N	Q	S	I	V	K	E	I				
UniRef90_X8K6I0	A	S	I	K	D	L	E	K	A	L	D	A	D	V	G	A	V	V	L	S	I	G	N	I	G	N	I	G	N	I	T	R	Y	V	Q	L	L					
UniRef90_U1X3E9	I	K	S	P	K	N	L	E	Q	F	I	E	T	E	T	Q	A	A	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_D5DA50	P	A	I	R	N	M	K	D	F	D	S	L	I	E	S	D	Q	P	L	L	I	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_N4WU32	P	A	I	R	T	E	K	D	F	E	E	A	L	L	A	S	P	S	T	L	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_B9K8F6	N	P	L	I	A	A	V	R	D	L	E	K	A	L	L	C	E	S	D	I	I	F	V	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_R2RF66	N	N	P	V	I	A	A	V	K	D	M	D	G	L	Q	K	A	S	T	R	I	I	F	I	L	L	F	G	D	V	C	N	L	I	S	S	I	V	D	I	L	
UniRef90_R5XML0	R	R	R	L	I	A	A	V	R	D	L	E	K	A	L	L	S	K	A	S	I	V	F	V	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_F5LR24	R	K	L	I	A	A	I	K	E	L	E	K	A	L	L	S	N	D	L	S	V	F	L	L	V	G	D	L	F	T	V	Q	D	Y	V	K	Q	V				
UniRef90_I3VX50	P	I	T	A	V	K	N	E	E	G	A	M	E	T	D	S	T	V	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_G5ILQ5	P	A	V	R	S	M	K	D	F	D	R	L	L	K	M	N	Y	E	Y	G	V	F	L	L	D	I	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_B7GI66	P	S	I	R	Q	L	K	D	L	Q	S	A	L	S	K	S	T	Y	I	F	L	S	E	V	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_UPI00041326F5	P	V	I	A	A	T	K	D	F	D	A	L	L	N	S	E	A	E	V	I	F	I	L	L	Q	S	H	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_R2VCB4	P	V	I	A	A	V	R	D	D	D	G	L	Q	N	A	N	R	V	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_R6R3K4	H	P	V	I	A	S	V	R	D	L	D	E	A	L	R	S	R	C	R	T	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_Q67RT0	M	L	K	H	I	R	S	M	K	D	L	E	K	L	T	M	T	D	Y	K	E	C	V	M	L	D	A	H	L	G	H	V	K	S	I	M	G	L	L			
UniRef90_UPI0002EA011D	M	E	Q	K	V	L	P	A	I	K	D	Y	Q	F	L	H	S	L	E	I	G	I	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_J8TUM5	P	A	I	A	V	Q	L	A	I	E	S	R	V	N	V	I	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_UPI00037E4199	P	A	I	R	K	P	K	D	L	E	K	L	M	G	F	S	Y	E	Y	I	V	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_W8YSS2	M	F	K	R	V	I	A	S	V	R	D	L	E	K	A	V	T	S	N	A	N	V	I	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_Q8EMX0	V	I	A	S	V	R	D	L	E	K	A	L	L	S	V	S	N	N	V	I	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_W4PUF9	N	P	V	I	A	S	I	K	D	L	E	K	A	A	Q	S	N	S	N	I	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_Q4L601	P	A	I	R	N	M	K	D	L	E	K	L	L	K	T	S	D	Y	K	I	C	V	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_UPI000411E800	V	I	A	S	V	K	N	L	R	A	A	E	R	S	R	S	N	I	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_I8SPR7	P	V	I	P	S	A	R	S	M	E	D	F	T	H	T	V	S	P	S	I	V	V	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_M1ZLU9	I	N	P	I	A	A	I	N	E	D	Q	A	L	D	S	P	C	E	I	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
UniRef90_W7CU55	Q	T	L	L	P	A	R	D	V	E	K	L	R	L	D	A	E	Y	M	V	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_UPI00030C571B	P	A	I	Q	S	M	K	D	F	D	K	M	L	T	Y	S	F	R	Y	G	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_B7IGC6	P	I	V	P	A	I	R	N	L	E	K	L	L	S	T	Q	V	S	S	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_R8W122	H	P	I	A	A	V	H	S	F	E	D	A	A	E	S	P	V	C	A	V	F	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L		
UniRef90_E0I9W9	Q	S	I	L	P	A	V	K	E	F	D	A	L	A	S	P	Y	A	Y	I	V	M	L	D	C	K	L	G	Q	L	K	S	E	M	V	S	R	L				
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UniRef90_C8WQ10	P	A	V	R																																						

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50 60 70 80
K K F D K K V L V L H A D L I H G L K V D Q Y G M E Y L R H I K V D G V I I S T T R R S A
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A D H G K R V L L H A D L I N D G L K N D E Y A A E F L Q Q Q I R P A D G L I V I I S T T R R S A
R E R D K L V F L H I D L I D G L K N D E Y A A E F L Q K V I R P A G L I I S T T R R S A
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A Q K Q M K T Y I H L D L T R G V A H D E Y G C E Y I Q K F K P S G I I S T T R R S A
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K Q A N K I A F V H L D M I E G L K G D P A G I R Y I K E A N P A G I I S T T R R S A
K E K N K M V F V H L D L I E G L R G D S A G I R Y I K N V I H P Q G I I S T T R R S A
K A A G K L A V V H I D L I T G L S Y S K E I S V A F F I K Q T K A D G G I I S T T R R S A
K S H D V P V F L H L E R I G G I S D R E G V A F V A H Y K A P D G I I S T T R R S A
H R A G K Q A V I H A D L I A G L A P K E I A V D Y L R R C G A D G I I S T T R R S A
D K R C K K L I H A D L I K T D N F A A D F L C N V I R A D G I I S T T R R S A
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K K H N R T V F L H V E K I P G I S S Y D R E G L K F L A K F K P T G I I S T T R R S A
K K K G K Q V L I H A D L I N G L K V D Q Y G M E Y L I R V K V D G V I I S T T R R S A
K K G N K E V F V H I D L V K G L S F D K C S L E D F L K D V K G A D G I I S T T R R S A
K E A G K I V M V D V D L I D G L A T K E T A V D Y I K R T K A D G I I S T T R R S A
K E N K K I A M I H I D L I G G L S S K D I A V D F I K N T K T D G I I S T T R R S A
I D S G K V F L H V D F I A G L G S D P I I K E Y I A K V R P T D G I I S T T R R S A
R A N D M F T F V H M E K I A G G I S S D K E G L K F L A N Y K P D G I I S T T R R S A
K D H G K L A I V H V D L I A G F S S K E V V I D F I R N T S A D G I I S T T R R S A
N E H G K K M F L H L D L I K S D E Y A T E F I C Q Q V K P Y G I I S T T R R S A
H Q A G K K V I V H V D L V E G L T K S D T K G V K W L K E M K V D G V I I S P N Q
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H T A G K F A I V H V D L I A G L A S K E V A V D F I R Q T E A D G I I S T T R R S A
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N K N N I E T Y M H I D L I K G M S H D E F A C E Y I Q N Y H P K G I I S T T R R S A
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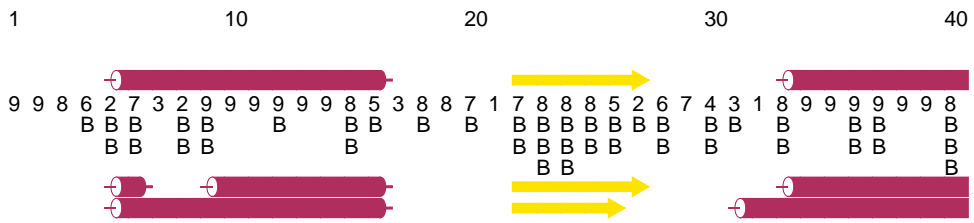
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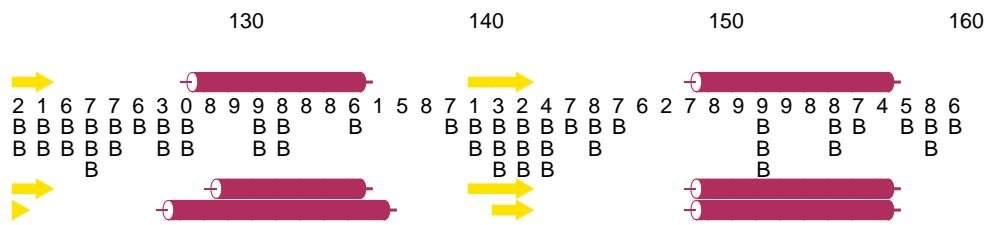
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