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210 220 230 240

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250 260 270 280

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

QUERY	A	Q	G	L	Y	W	A	Y	D	G	S	N	L	I	G	T	P	P	R	F	Y	N	Q	I	V	R	R	I	A	V	T	Y	K	K	E	E	D	L	A	N	320								
UniRef90_B2W269	V	Q	G	M	F	W	A	Y	D	G	S	N	L	I	G	T	P	P	R	L	Y	N	Q	I	V	R	R	I	A	V	A	Y	K	Q	E	D	N	L	A	N									
UniRef90_QOUE79	A	R	G	H	F	W	A	Y	D	G	S	N	L	I	V	G	T	P	P	R	F	Y	N	Q	I	V	R	R	I	A	V	Q	H	K	Q	D	D	N	L	A	N								
UniRef90_P79087	V	Q	G	M	F	W	A	Y	D	G	S	N	L	I	G	T	P	P	R	L	Y	N	Q	I	V	R	R	I	A	V	T	Y	K	K	Q	D	N	D	L	A	N								
UniRef90_R7Z3F2	V	A	A	Y	F	W	A	Y	D	G	V	N	L	I	G	T	P	P	R	Q	Y	N	Q	I	L	R	V	I	A	W	E	R	K	T	D	P	A	P	D										
UniRef90_R7YUC7	A	K	A	L	F	W	A	Y	D	G	V	N	L	I	G	T	P	P	R	L	Y	N	Q	I	L	R	K	I	A	C	I	E	R	M	P	N	K	A	D	L	A								
UniRef90_J3PBZ4	V	T	A	H	F	W	A	Y	D	G	T	N	L	I	G	T	P	P	R	L	Y	N	Q	I	L	R	K	I	A	F	E	R	R	P	N	D	T	S	D	L	A								
UniRef90_S3E7G3	T	A	G	Y	F	W	A	Y	D	G	S	N	L	I	G	T	P	P	R	N	Y	N	Q	I	L	R	K	I	A	V	E	K	R	P	A	A	G	L	T	D									
UniRef90_V9DHC2	V	A	G	L	F	W	A	Y	D	G	V	N	L	I	G	T	P	P	R	F	Y	N	Q	I	L	R	Q	V	A	F	D	N	K	V	G	S	D	A	D	H									
UniRef90_S8B8K1	T	A	G	Y	F	W	A	Y	D	G	A	N	L	I	G	T	P	P	R	F	Y	N	Q	I	L	R	T	L	A	W	K	N	K	R	D	G	P	T											
UniRef90_F9XCW4	V	G	A	V	F	W	A	Y	D	G	V	N	L	I	G	T	P	P	R	L	Y	N	Q	I	V	V	K	Q	I	A	F	D	A	K	V	G	D	D	I	S	S								
UniRef90_UPI00034560A0	E	I	A	Q	F	W	A	D		G	A	G	T	Y	T		P	P	G	H	W	N	E	I	A	Q	D	V	S	L	Q	Q	G	N	T														
UniRef90_G0LAH5	Q	I	A	R	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	A	H	W	M	G	I	A	K	L	A	A	R									K									
UniRef90_K9RWK0	E	I	A	R	F	W	A	D		G	T	G	T	Y	T		P	P	G	H	W	N	Q	L	T	E	Q	A	A	I	D																		
UniRef90_A0YME9	L	I	A	E	Y	W	E	D	G	P	G	T	S	F			P	P	G	K	W	M	A	F	G	Q	Y	T	S	Q									R										
UniRef90_I4FYC4	Q	I	A	K	F	W	A	D		G	A	G	T	F	T		P	P	G	H	W	N	Q	I	A	Q	N	V	A											A	E								
UniRef90_E6X4Z9	Q	I	A	Q	F	W	D	C	N	P	Y	V	S	V	T	T	P	P	G	A	H	W	I	G	I	T	K	I	A	S											K	K							
UniRef90_UPI00041951FA	Q	I	A	K	F	W	D	C	N	P	Y	V	S	T	Q	T	P	P	G	H	W	L	G	I	T	K	I	A	C	R											K								
UniRef90_A9F9Q6	V	I	G	L	F	W	S	Y	D	S	A	P	R	L	I	G	E	P	P	R	L	Y	N	Q	I	A	R	V	L	A	V	K	E	C	N														
UniRef90_A3XK50	E	I	A	K	F	W	D	C	N	P	Y	V	S	T	I	T	P	P	G	H	W	I	G	I	V	K	I	A													T	K	K						
UniRef90_UPI000255B0C6	A	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	A	H	W	I	G	I	A	K	I	A	A	R											K	K						
UniRef90_A2TV62	A	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	H	W	V	G	I	T	K	L	A	S													K	K						
UniRef90_D8G2G4	A	L	A	K	F	W	A	D		G	A	G	T	F	T		P	P	G	H	W	N	Q	I	A	Q	Q	S	S	V	L																		
UniRef90_F3YZW8	L	A	G	L	F	W	A	Y	D	K	T	P	G	L	G	S		P	P	R	Q	Y	N	Q	I	A	L	T	I	A	E	T	M																
UniRef90_UPI00047BC287	A	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	A	H	W	I	G	I	V	K	I	A	S												K	K						
UniRef90_UPI00036699A4	A	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	S		P	P	G	A	H	W	L	G	I	V	K	I	A	A												K	K					
UniRef90_UPI0003689904	E	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	H	W	M	G	I	T	L	I	A	S	R													K						
UniRef90_L8N3N5	E	I	A	K	F	W	A	D		G	A	G	T	Y	T		P	P	G	H	W	N	Q	I	A	Q	N	I														V	A	N					
UniRef90_D5BD89	A	I	A	K	F	W	D	C	N	P	Y	V	S	T	Q	T	P	P	G	H	W	I	G	I	T	K	V	A	C	N													K						
UniRef90_I2ETX5	R	I	A	W	F	W	D	N	A	A	S	K	K	M	T		P	P	G	H	W	L	A	V	H	T	V																	C	K	D			
UniRef90_A4CJ32	A	I	A	R	F	W	D	C	N	P	A	T	K	K	I	S		P	P	G	A	H	W	L	G	I	A	K	I	A	C	R													K	K			
UniRef90_H2BWB0	Q	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	H	W	M	G	I	T	K	I	A	S																K	K			
UniRef90_L8JW92	E	L	A	S	F	W	D	C	N	P	A	T	K	K	V	T		P	P	G	H	W	M	G	I	A	K	I	A	C	Q														K				
UniRef90_Q2YAJ1	E	Q	A	Q	F	W	A	D		G	M	G	S	Y	T		P	P	G	H	W	N	Q	I	A	E	E	I	A	R	A	Q	Q	G	N														
UniRef90_K9ZMS6	V	T	A	E	Y	W	A	D	G	P	A	S			E	T		P	P	G	H	W	N	L	F	A	Q	F	V	S	Q	R	D	N	H														
UniRef90_M7NQN0	E	I	A	S	F	W	D	C	N	P	A	A	K	K	I	T	P	P	G	H	W	M	G	I	T	K	L	A																C	Q	K			
UniRef90_K9VHB5	A	I	A	K	F	W	A	N		G	A	G	T	F	T		P	P	G	H	W	N	Q	I	A	Q	D	A	S																A	L			
UniRef90_UPI000478AB7E	A	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	H	W	M	G	I	V	K	I	A	C	Q															K				
UniRef90_UPI00034564CD	K	I	A	L	F	W	S	D	G	P	G	T	Y	T		P	P	G	H	W	N	Q	I	A	A	V	V	A	D																R				
UniRef90_A2U0E5	A	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	S		P	P	G	A	H	W	L	G	I	V	K	I	A	A	R														K			
UniRef90_G2PLH2	A	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	A	H	W	L	G	I	A	K	I	A	S	R															K			
UniRef90_D6U1D4	V	I	A	E	Y	W	A	D	G	P	A	S	S	E	L	T		P	P	G	H	W	C	L	F	A	H	F	V	S	M	R	D	H	H														
UniRef90_I2GSS2	K	I	A	Y	F	W	D	N	A	A	S	K	K	M	T		P	P	G	H	W	L	A	I	A	E	T	V	A	R	Q	K	K																
UniRef90_A0M062	A	I	A	K	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	H	W	I	G	I	T	K	I	A	C	Q																K			
UniRef90_UPI00047EC755	Q	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	T	P	P	G	A	H	W	I	G	I	T	K	I	A	S	R															K			
UniRef90_A0A024F10	Q	I	A	Q	F	W	D	C	N	P	A	T	K	K	I	S		P	P	G	A	H	W	I	G	I	T	K	I	A	C	R															K		
UniRef90_UPI00035DFA19	A	L	A	Q	F	W	D	C	N	P	A	V	K	K	I	T	P	P	G	A	H	W	L	G	I	T	K	I	A	A																K	K		
UniRef90_UPI0003F75598	D	M	A	K	F	W	D	C	N	P	A	T	K	K	I	S		P	P	G	H	W	M	G	I	T	K	I	A	S																		K	K
UniRef90_S2DG62	D	I	A	F	F	W	D	C	N	P	A	E	K	K	I	T	P	P	G	H	W	M	G	I	A	A	I	A	A																			K	T
UniRef90_UPI00047A08D3	K	T	A	R	F	W	D	C	N	P	Y	V	S	V	T	T		P	P	G	A	H	W	L	G	I	A	K	I	A																	C	K	K
UniRef90_UPI00037540AB	E	I	A	L	F	W	A	D		G	A	G	T	Y	T		P	P	G	H	W	N	Q	I	A	Q	Q	A	S	L	Q																		
UniRef90_K4IC98	A	I	A	Q	F	W	D	C	N	P	Y	V	T	V	T		P	P	G	A	H	W	L	G	I	T	K	L	A	S																	K	K	
UniRef90_K9TLY9	M	I	A	E	F	W	E	D	G	A	G	T	S	F			P	P	G	K	W	M	N	F	G	Q	F	V	S	E	R	D	A	H	T														
UniRef90_A8UPZ2	E	I	A	R	F	W	D	C	N	P	F	V	S																																				

QUERY UniRef90_B2W269 UniRef90_QOUE79 UniRef90_P79087 UniRef90_R7Z3F2 UniRef90_R7YUC7 UniRef90_J3PBZ4 UniRef90_S3E7G3 UniRef90_V9DHC2 UniRef90_S8B8K1 UniRef90_F9XCW4 UniRef90_UPI00034560A0 UniRef90_G0LAH5 UniRef90_K9RWK0 UniRef90_A0YME9 UniRef90_I4FYC4 UniRef90_E6X4Z9 UniRef90_UPI00041951FA UniRef90_A9F9Q6 UniRef90_A3XK50 UniRef90_UPI000255B0C6 UniRef90_A2TV62 UniRef90_D8G2G4 UniRef90_F3YZW8 UniRef90_UPI00047BC287 UniRef90_UPI00036699A4 UniRef90_UPI0003689904 UniRef90_L8N3N5 UniRef90_D5BD89 UniRef90_I2ETX5 UniRef90_A4CJ32 UniRef90_H2BWB0 UniRef90_L8JW92 UniRef90_Q2YAJ1 UniRef90_K9ZMS6 UniRef90_M7NQN0 UniRef90_K9VHB5 UniRef90_UPI000478AB7E UniRef90_UPI00034564CD UniRef90_A2U0E5 UniRef90_G2PLH2 UniRef90_D6U1D4 UniRef90_I2GSS2 UniRef90_A0M062 UniRef90_UPI00047EC755 UniRef90_A0A024F10 UniRef90_UPI00035DFA19 UniRef90_UPI0003F75598 UniRef90_S2DG62 UniRef90_UPI00047A08D3 UniRef90_UPI00037540AB UniRef90_K4IC98 UniRef90_K9TLY9 UniRef90_A8UPZ2 UniRef90_UPI00038233AE UniRef90_I3Z1K1 UniRef90_E4TSE2 UniRef90_M7X7V5 UniRef90_H7FQ49 UniRef90_F0RC70 UniRef90_B1X1G5 UniRef90_UPI00046F7C8E UniRef90_UPI000423F571 UniRef90_I0K4E4 UniRef90_UPI000366E91B UniRef90_K9TFZ7 UniRef90_K1KXH2 UniRef90_I2ER91 UniRef90_Q54FF5 UniRef90_F4L1L3 UniRef90_UPI00036D6C22 UniRef90_G0LBK6 UniRef90_U6TRF2 UniRef90_UPI00036E6D53 UniRef90_N1WZF6 UniRef90_K9Y9X5 UniRef90_UPI0003490468 UniRef90_UPI00028A1FB6 UniRef90_UPI0002DBC1A2 UniRef90_U5BWA0 UniRef90_UPI00040A8FAD UniRef90_G8TJY3 UniRef90_UPI00047CE948 UniRef90_G2Z5E5 UniRef90_I2ER92 UniRef90_UPI00035D5F8E UniRef90_UPI0003B46F19 UniRef90_F8EP94 UniRef90_Q10YE8 UniRef90_I2GGW3 UniRef90_K9RJ74 UniRef90_A0YQM5

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

QUERY		370		380		390		400
UniRef90_B2W269	GVR	DDGR	PD	HGD	P	F	W	L
UniRef90_QOUE79	GVR	DDGR	PD	HGD	P	F	W	L
UniRef90_P79087	GVR	DD	VLR	DR	PE	E	G	K
UniRef90_R7Z3F2	GVR	RED	PR	RS	YA	D	P	F
UniRef90_R7YUC7	GVR	RED	PR	PE	HA	D	P	F
UniRef90_J3PBZ4	GVR	RED	PR	SG	L	G	D	P
UniRef90_S3E7G3	GVR	QD	IQ	SP	L	H	D	P
UniRef90_V9DHC2	GVR	AD	PT	GS	P	V	P	E
UniRef90_S8B8K1	AVR	ED	AN	QS	M	V	D	P
UniRef90_F9XCW4	GV	H	A	D	P	S	G	P
UniRef90_UPI00034560A0	AI	N	Q		Q	A	D	S
UniRef90_G0LAH5	VI	N	Q		H	I	D	D
UniRef90_K9RWK0	AI	R	S	L	F	N	G	Q
UniRef90_A0YME9	AI	Q			N	A	D	S
UniRef90_I4FYC4	LI	N	Q	Y		I	D	E
UniRef90_E6X4Z9	LI	N	Q	Y		I	D	E
UniRef90_UPI00041951FA	LI	N	Q	Y		I	D	E
UniRef90_A9F9Q6	AI	R	R	A	D	R	D	G
UniRef90_A3XK50	LI	N	Q	Y		I	D	E
UniRef90_UPI000255B0C6	LI	N	E	H	F		D	E
UniRef90_A2TV62	LI	N	E			H	I	D
UniRef90_D8G2G4	AI	R	E			A	E	K
UniRef90_F3YZW8	GI	R	E	A	D	P	G	T
UniRef90_UPI00047BC287	LI	N	Q			H	I	D
UniRef90_UPI00036699A4	LI	N	Q			H	I	D
UniRef90_UPI0003689904	VI	N	Q			T	V	D
UniRef90_L8N3N5	AI	Q				Q	A	D
UniRef90_D5BD89	LI	N	K	F	I	D	D	Q
UniRef90_I2ETX5	LI	N	A			S	V	D
UniRef90_A4CJ32	LI	N	Q			H	I	D
UniRef90_H2BWB0	LI			T	K	Y	I	D
UniRef90_L8JW92	VI	N				K	F	L
UniRef90_Q2YAJ1	AI	N				N	A	D
UniRef90_K9ZMS6	AI	H	Y	L	Y	Q	G	Q
UniRef90_M7NQN0	VI	N	R	Y		I	D	E
UniRef90_K9VHB5	AI	R				Q	A	D
UniRef90_UPI000478AB7E	VI	N				K	Y	I
UniRef90_UPI00034564CD	AI	R				Q	A	D
UniRef90_A2U0E5	LI	N	Q			N	I	D
UniRef90_G2PLH2	VI	N	E	Y		L	D	D
UniRef90_D6U1D4	AV	H	Y	L	Y	N	G	K
UniRef90_I2GSS2	VI	N				K	S	I
UniRef90_A0M062	LI	N				K	Y	I
UniRef90_UPI00047EC755	LI	N				I	H	I
UniRef90_A0A024F10	LI	N	K	H	F	D	D	S
UniRef90_UPI00035DFA19	LI	N	T	Y	F	D	D	
UniRef90_UPI00037F5598	LI	N	Q	Y		L	D	E
UniRef90_S2DG62	YI	N				K	Y	I
UniRef90_UPI00047A08D3	LI	N				K	Y	I
UniRef90_UPI00037540AB	AI	H				Q	A	D
UniRef90_K4IC98	LI	K	T	Y	F	D	D	
UniRef90_K9TLY9	AI	R	E	L	F	A	G	E
UniRef90_A8UPZ2	LI	N	K	Y	I	D		
UniRef90_UPI00038233AE	VI	N	K	Y	M			
UniRef90_I3Z1K1	YI	N				K	Y	I
UniRef90_E4TSE2	YI	N	R	Y		I	D	E
UniRef90_M7X7V5	YI	N	K	Y	M			
UniRef90_H7FQ49	VI	N	Q			H	I	D
UniRef90_F0RC70	LI	N				T	I	D
UniRef90_B1X1G5	AI	R	E	L	G	R	L	C
UniRef90_UPI00046F7C8E	YI	N	T	Y		I	D	E
UniRef90_UPI000423F571	LI	N				K	Y	I
UniRef90_I0K4E4	VI	N				K	S	I
UniRef90_UPI000366E91B	FI	N	Q	Y		I	D	E
UniRef90_K9TFZ7	AI	R	D	A	F	A	G	E
UniRef90_K1KXH2	YI	N				K	Y	I
UniRef90_I2ER91	YI	R				T	T	I
UniRef90_Q54FF5	MI	P	V	L	F	K	G	V
UniRef90_F4L1L3	AI	R				K	Y	I
UniRef90_UPI00036D6C22	FI	N	R	Y		I	D	E
UniRef90_G0LBK6	YI	N	N	Y		I	D	E
UniRef90_W6TRF2	AI	R				S	Y	I
UniRef90_UPI00036E6D53	LI	N	Q			T	L	D
UniRef90_N1WZF6	LI	N				K	Y	I
UniRef90_K9Y9X5	AI	R	E	L	G	R	L	G
UniRef90_UPI0003490468	LI	R	D	L	G	E	L	G
UniRef90_UPI00028A1FB6	AI	R	E	L	Y	R	G	K
UniRef90_UPI0002DBC1A2	AI	R	Y	L	Y	K	G	Q
UniRef90_U5BWA0	YI	N				F	L	D
UniRef90_UPI00040A8FAD	VI	N	E	N	I	N		
UniRef90_G8TJY3	VI	N				K	Y	I
UniRef90_UPI00047CE948	YI	N	Q			H	I	D
UniRef90_G2Z5E5	YI	N	Q			H	I	D
UniRef90_I2ER92	YI	R	Q	A		I	D	P
UniRef90_UPI00035D5F8E	LI	N	Q			N	I	D
UniRef90_UPI0003B46F19	AI	R				K	Y	I
UniRef90_F8EP94	VI	N	S	D		I	D	P
UniRef90_Q10YE8	VV	R	E	L	G	I	D	S
UniRef90_I2GGW3	VI	N	A			N	I	D
UniRef90_K9RJ74	AI	R	E	A	D	K	D	N
UniRef90_A0YQM5	LV	R	E	L	G	D	L	G

QUERY		450	460	470	480
UniRef90_B2W269		L N G I S R R D L R R Q P Y D P T A P I E D D Q P G G I V R T R L V R H F D S A W E L M			
UniRef90_QOUE79		L N G I S R R D L R R Q P Y D P K R R D I T D D Q P G G I V R T R M P Y K F S S L W E A L			
UniRef90_P79087		L N G I S R R D L R R Q P Y D P K R R P I T E D D Q P G G I V R T R M P Y K F S S L W E A M			
UniRef90_R7Z3F2		L N G K S R R D L R R E N P Y D D N R R R I E D D Q V G G I V R T R V K R H F G S L W E A T			
UniRef90_R7YUC7		L N G V S R R D L R R Q P Y D P A R R P I T D D Q P G G I V R T K I P R E F S S L W E A L			
UniRef90_J3PBZ4		L N G V S R R D L R R Q P Y D P A R R P I T D D Q V G G I V R T R V P V C F S S L W E A L M			
UniRef90_S3E7G3		L N G I S R R D L R R Q P Y D P S A P I T D D Q G G I V R T D I A R K F P S L W S A T			
UniRef90_V9DHC2		N G I S R N I L L Y R Q T Y D P A Q A I T D D Q A G E V R T R L V F K F Q S M K W E A I			
UniRef90_S8B8K1		L D G V S R D L R Y Q T Y D P T Q L I T N Q P G G T A R T R V K R R F S L W E A I			
UniRef90_F9XCW4		L N G V S R N L Y S A Y D P K L P L E S Q A G D V R T R V P I T Y N S L K E A L			
UniRef90_UPI00034560A0				L P E V R R S F S F T Q A A	
UniRef90_G0LAH5			D D T E V P Y G L P I R S F K S F K Q A A		
UniRef90_K9RWK0		Y S F T S T S V G L P G V S R N F T N F S A A A			
UniRef90_A0YME9		S S H F E P E I T P S Q D I T L S W P T F S D A A			
UniRef90_I4FYC4			L G T P G L Y R T F S N F T N A A		
UniRef90_E6X4Z9			D F E D D S E I N F G L P V R H F K S F L Q A A		
UniRef90_UPI00041951FA			S F E D D T E V S Y G L P V R T F N S F N E A S		
UniRef90_A9F9Q6	Y N G V T		T D E R G N V R P E I T R C Y S F F E E A S		
UniRef90_A3XK50			F D D D T E T A Y G L P V R S F D S F R N A S		
UniRef90_UPI000255B0C6			D D T E I P Y G L P V R S F T S F N A A A		
UniRef90_A2TV62			S F N D D T E I A Y G L P I R N S F K S F R A A A		
UniRef90_D8G2G4			V G D P S V N S L R K F D S F E S A A		
UniRef90_F3YZW8	L N G V T		T D N D G S V R P Y A P R H Y S S L S E A E		
UniRef90_UPI00047BC287			S F E D D T E T P Y G L P I R K F N S F N E A A		
UniRef90_UPI00036699A4			F D D D T E L P Y G L P V R S F N S F N E A A		
UniRef90_UPI0003689904	F		G L T A R H F D N S F T Y E A S		
UniRef90_L8N3N5			L G T P G L Y R T F D N S F T S A A		
UniRef90_D5BD89			F L D D T E V P Y G L P K R E Y A S F R N A A		
UniRef90_I2ETX5	F		G H G V G Q F K S F Q E A A		
UniRef90_A4CJ32			D D T E L P Y G L P V R S F N S F N E A S		
UniRef90_H2BWB0			S F S D D T E V I Y G L P V R E F Q S F N H A A		
UniRef90_L8JW92			F V D S T E V R Y G L T A R E F N S F S E A S		
UniRef90_Q2YAJ1			T L P G V T R S F D N S F D A A A		
UniRef90_K9ZMS6			S F V D S T E V R Y G L G F R S F T S F T H A A		
UniRef90_M7NQN0			G D P S V N T L R T Y E N F T E A A		
UniRef90_K9VHB5			D D T E V D Y G L P V R S F E S F N K A S		
UniRef90_UPI000478AB7E			T I G S L G L P G A T R S F Q S F S H A A		
UniRef90_UPI00034564CD			D D T E V P F G L P I R S F D S F A D A A		
UniRef90_A2U0E5			D D T E V P Y G L P V R S F T S F N Q A S		
UniRef90_G2PLH2			T S S F E T G V L P A S D I T L S W P T F S A A A		
UniRef90_D6U1D4			T D S T E H K Y G H G V R S F K S F K A A A		
UniRef90_I2GSS2			S F E D D T E V D Y G L P V R N F T S F K A A S		
UniRef90_A0M062			F E D D T E V P Y G L P I R N S Y T S F N Q A A		
UniRef90_UPI00047EC755			D D T E I P Y G L P V R S F Y Q S F N D K A A		
UniRef90_A0A024F10			S F A D N T E V P Y G L P V R S F T S F N A A A		
UniRef90_UPI00035DFA19			F G D D F S F D D T E V P Y G L P I R E F N S F K H A A		
UniRef90_UPI0003F75598			F H F V D S T E V A Y G L P I R E F S F R H A A		
UniRef90_S2DG62	E P		F Q F D D D T E M Q F G I P V R S F N S F N Q A A		
UniRef90_UPI00047A08D3			I G L P G V E R Q F D S F S D A A		
UniRef90_UPI00037540AB			F D D D T E L V F G L P I R S F A S F E A A A		
UniRef90_K4IC98			L G D S V I E S G N T P T T D I T L A W P T F S T A A		
UniRef90_K9TLY9			E L P Y G L P M R S F K S F R L J A A		
UniRef90_A8UPZ2			T D S T E F K Y G H G V R T Y K S F K D A A		
UniRef90_UPI00038233AE			F V D S T E V A Y G L P V R E F K S F R L J A A		
UniRef90_I3Z1K1			F V D S T E V A Y G L P V R T F E S F L D A S		
UniRef90_E4TSE2			S T E V A Y G L P I R E F D S F R Q A A		
UniRef90_M7X7V5	E P F H F V D		S F V D D S E L Q F G L P N R S F K S F N E A S		
UniRef90_H7FQ49			S F T D D T E L P F G L P S R K F T S F N T A A		
UniRef90_F0RC70			F T P S R P V T L S W T T F T E A A		
UniRef90_B1X1G5	E P G		Y K F T D S T E L P Y G L P A R S F D S F T A A A		
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UniRef90_UPI000423F571			T D S T E Y K Y G H G V R A F K S F N D A A		
UniRef90_I0K4E4			E P G V T P T T E I T L S W P T F S A A A		
UniRef90_UPI000366E91B	F D I		I Y D S T E V A Y G L P V R E F N S F R E A A		
UniRef90_K9TFZ7			F T D N S H V G R G F K P R S F D S F F E F A		
UniRef90_K1KXH2			V P K T D I N L Y W E T F T D A A		
UniRef90_I2ER91	P		Y T D T V E E R F G L K S R K F S F Q Q A A		
UniRef90_Q54FF5			F V D S V E V E Y G L P V R S F E S F L A A S		
UniRef90_F4L1L3			F V D A T E V P Y G L P P R S F Q S F W Q A A		
UniRef90_UPI00036D6C22			Y H Y T D D V E E K Y G L P S R K F T S F K E A A		
UniRef90_G0LBK6			F D D D T E I P Y G L P V R S F N S F Y D A S		
UniRef90_W6TRF2			E F L D T T E L P Y G L P A R F F K S F K S A A		
UniRef90_UPI00036E6D53			P K E P V T L E W E T F R E A A		
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UniRef90_K9Y9X5			G S K I E P G C T P C E N I T L E W K V L K D A A		
UniRef90_UPI0003490468			Q P Q N P P A P T Q D I T L F W S T F T D A A		
UniRef90_UPI00028A1FB6			F V D S T E V A Y G L P I R E F N S F R L J A A		
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UniRef90_U5BWA0			P F R D S T E R P W G F P D R S F K T Y R E A A		
UniRef90_UPI00040A8FAD			Y G L P I R E F N S F T E A A		
UniRef90_G8TJY3			S Y T D D S E I P F G L P K R D F T S F K Q A A		
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UniRef90_I2ER92			Y T D N V E V S Y G V P R R F A S F T Q A A		
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UniRef90_UPI0003B46F19			F V D S T E H P F G H G V Q T F A S V D E A Y		
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UniRef90_Q10YE8			F E P G Q S R F E P N L T P Q Q E V T L A W D T F S E A A		
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QUERY UniRef90_B2W269 UniRef90_QOUE79 UniRef90_P79087 UniRef90_R7Z3F2 UniRef90_R7YUC7 UniRef90_J3PBZ4 UniRef90_S3E7G3 UniRef90_V9DHC2 UniRef90_S8B8K1 UniRef90_F9XCW4 UniRef90_UPI00034560A0 UniRef90_G0LAH5 UniRef90_K9RWK0 UniRef90_A0YME9 UniRef90_I4FYC4 UniRef90_E6X4Z9 UniRef90_UPI00041951FA UniRef90_A9F9Q6 UniRef90_A3XK50 UniRef90_UPI000255B0C6 UniRef90_A2TV62 UniRef90_D8G2G4 UniRef90_F3YZW8 UniRef90_UPI00047BC287 UniRef90_UPI00036699A4 UniRef90_UPI0003689904 UniRef90_L8N3N5 UniRef90_D5BD89 UniRef90_I2ETX5 UniRef90_A4CJ32 UniRef90_H2BWB0 UniRef90_L8JW92 UniRef90_Q2YAJ1 UniRef90_K9ZMS6 UniRef90_M7NQN0 UniRef90_K9VHB5 UniRef90_UPI000478AB7E UniRef90_UPI00034564CD UniRef90_A2U0E5 UniRef90_G2PLH2 UniRef90_D6U1D4 UniRef90_I2GSS2 UniRef90_A0M062 UniRef90_UPI00047EC755 UniRef90_A0A024F10 UniRef90_UPI00035DFA19 UniRef90_UPI0003F75598 UniRef90_S2DG62 UniRef90_UPI00047A08D3 UniRef90_UPI00037540AB UniRef90_K4IC98 UniRef90_K9TLY9 UniRef90_A8UPZ2 UniRef90_UPI00038233AE UniRef90_I3Z1K1 UniRef90_E4TSE2 UniRef90_M7X7V5 UniRef90_H7FQ49 UniRef90_F0RC70 UniRef90_B1X1G5 UniRef90_UPI00046F7C8E UniRef90_UPI000423F571 UniRef90_I0K4E4 UniRef90_UPI000366E91B UniRef90_K9TFZ7 UniRef90_K1KXH2 UniRef90_I2ER91 UniRef90_Q54FF5 UniRef90_F4L1L3 UniRef90_UPI00036D6C22 UniRef90_G0LKBK6 UniRef90_W6TRF2 UniRef90_UPI00036E6D53 UniRef90_N1WZF6 UniRef90_K9Y9X5 UniRef90_UPI0003490468 UniRef90_UPI00028A1FB6 UniRef90_UPI0002DBC1A2 UniRef90_U5BWA0 UniRef90_UPI00040A8FAD UniRef90_G8TJY3 UniRef90_UPI00047CE948 UniRef90_G2Z5E5 UniRef90_I2ER92 UniRef90_UPI00035D5F8E UniRef90_UPI0003B46F19 UniRef90_F8EP94 UniRef90_Q10YE8 UniRef90_I2GGW3 UniRef90_K9RJ74 UniRef90_A0YQM5

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

QUERY	530	540	550	560
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UniRef90_P79087	A T V Y Q N P E D I R Y E T M S T R E G H E G L L P I I G G V P L L G M G I A N D I			
UniRef90_R7Z3F2	A A L F K N V E D I R Y K T K G T R K G H K G L L P I I G G V P L L G L E I A N D I			
UniRef90_R7YUC7	T T A Y K D P G E I S Y D A M S K R H D R D G V F P I I G G V P L L G L E I A N D I			
UniRef90_J3PBZ4	V T R Y Q D P K E I R Y E T K G H R M D S P K E Y P I I G G V P L L G L E I A D D I			
UniRef90_S3E7G3	S T R Y K P V A E V R Y E T R A S R F D R D G L F P I I G G V P L L G L E I A N D I			
UniRef90_V9DHC2	L I N Y K A A Q D L K Y Q T V G A R G D R P G L F P I I G G V P L L G L E I A N D V			
UniRef90_S8B8K1	T T S Y L P V D Q Q D W Q T L G G P R D G V A N K V P F G G V P L L G L E I A Q D I			
UniRef90_F9XCW4	A R H Y K K A S D I K Y M T S G S R T D Q P G S F P I I G G V P L L G L E I A N D I			
UniRef90_UPI00034560A0	S T V Y Q H V G G L D W F A A G N L G P R D G E Y P V G G V P L L G M L I A D N L			
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UniRef90_A0YQM5				

QUERY
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	290	300	310	320
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UniRef90_UPI00047AA5AE	A I A S F W D C N P A T K K I T P G G H W M G I A G I A S R			K
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UniRef90_A3HS69	T I A E F W S D D P Q R T A T P P G H S L S I A L E I			L R N
UniRef90_C0BLB9	E I A S F W D C N P A T K K I T P P G G H W L G I T K I A A			K Q
UniRef90_F8EBE8	E I A V W W A D D P S E T F T P P G H S Y N L A R I A I			K N
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P P V A F S K D T T S E F Y H K L A Q E V Y Q I G N K M S E K N K
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R P P A Y D L N K N S Q Y Y K E L N E L Y L M S L N L T P E Q R
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P P A E Y S E D K N S S F F T Q L L E I Y E V T S Q L T E E Q K
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P L P F S S S I T S Q Y F A Q Y L E V Y T K N K T L S T E E K
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P P A F D L G D G S P F K L Q L D E V W K T S K N L T E E Q E
P P P L V G S K Q L E E E V K E V T E L Q A N L T P E N K
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P P V P F S D K P E S P F V E L L N E V Y S V T S Q L T D E Q K
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P A I P Y S K D P N S T F F K L A K E V Y D A T Q H L T K E Q I
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P P A F S E N P S E F F Q L M R Q V Y E E E L T S E T Q
L P T T Y S E L L P G R D Y A G Q I K E V Q R L G E A H S S E R T R E Q T
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L P V P F S R D T A S A F H R Q A K A V Y H V S K Q L T A D Q T
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P P P A L G S E V W T R D V N E I R F E V G S R S S T T R T P E Q T
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UniRef90_UPI00036F0A30 G P P A L T G K Y A K D L N E V K A I G A V N S T V R T Q D Q T
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UniRef90_U5VY55 G P P A L T S K A Y A R E L N E I K A L G S A T S T V R T P D Q T
UniRef90_F8EGS1 M P Y V V G S S E W Q K E L D E L K A L Q K K Q T R E Q A
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UniRef90_K9UG62 P P P L D C P E Y A T A F N E V K R D G K N D L P Q K A P D K A
UniRef90_UPI0003B6676A P P Y A T N S P E F K K E T E E V L S Y S K D R S R D H E
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	290	300	310	320
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UniRef90_UPI000377A141	R I V H F W A D G A G T S	T P A G H W N A I A A		D D F L K
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UniRef90_G2PSG7	R I A N F W Q D G L G	T Y T P P G H W N R F A N E L I V E Y R		
UniRef90_E4TPQ5	R I A N F W Q D G L G	T Y T P P G H W N E F A K E F I V K Y R		
UniRef90_H8KQ71	I I A R Y W A D	G T G T F T P P G H M I A I T S Q L I		K D
UniRef90_UPI0003A820FA	E L A L W W G D D P D D T F T	P P G H S Y Y I A I A T Q V		L T A
UniRef90_UPI00037E7563	E A A L W W A D D P S Q T F	T P P G H S Y Y I A		T L A V T T
UniRef90_UPI00037348B	D L V I F W N G N	P P L L W V R I A L Q L A		A N
UniRef90_UPI000422DB28	H I A E F W D N D P G S K K F S	P P G H W M S V V G I A A		K Q
UniRef90_I2EZ3	Q I A N F W D D A A T F T Y T A	P P G H S V S L L V Q V		L K Q
UniRef90_C6VUI5	R I A S F W S D	G V G S Y T P P G H W H R K G A E L C H E N K Y		
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UniRef90_B1ZQ73	E I A C F W Y E N S T C G	W N R I A A N V		G A Q
UniRef90_I2GBC3	R I A N Y W A D	G V G S Y T P P G H W H R T A A D A A H E		
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UniRef90_M7XHG9	R I A N W W E D G L G S	Y T P P G H W N K F A K E A I V		R
UniRef90_UPI0003659C1F	Q I G Q F W N G N I Q D	F W N E I A Q T A A L T		
UniRef90_UPI00047B6CBF	R I A N F W Q D G L G	T Y T P P G H W N E F A N R F I V E		
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UniRef90_I4H9A1	D I A F F W A N D V D G T Y K	P P G H L F R I T Q I V A Q Q		
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UniRef90_UPI00047C1329	R I V H F W G D G I A	T Y T P P G H W N E I A		C D D F V K
UniRef90_UPI0004726D9E	W I A E F W A D D V E G L M I S	P P G R Q F S I A N Q L I R Q		
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UniRef90_UPI0003616FCD	S I A D Y W S D G P A S	E T P P G H W C L F A Q Q V S A R D R H		
UniRef90_K1L7F6	R I A N W W E D G L N S	Y T P P G H W N K F A K I		S I V K
UniRef90_UPI00037CB12A	V L A E F W A D G P D S	E T P P G H W F T I L N Y V S D H P E T V K Q F G G		
UniRef90_UPI00036EF6BE	L I A Q F W A D G G G	T F T P P G H W I D I T N G L I G		
UniRef90_W6TVK9	D L A K F W D C N P A T S K F I S	P G A H W L S I A T I A C K M K T F N Y I		L G G
UniRef90_UPI000255ABFD	E A A I W W G D D P D V S F	T P P G H S Y Y L A T V V		L R D
UniRef90_H5WJV3	R V A L Y W A D D P G	K T P T P A G H W T W I L N D L		
UniRef90_Q2Y8C5	E I A R F W E	E V M P P I Y H G V I R S V A E A P G R E		
UniRef90_A2TTG3	W I A E F W S D D V E G L M T S	P P G H Q V S I A N Q L I G Q Y		
UniRef90_UPI00047E5242	Q I G Q F W N G N I Q N	F W N E I T Q T A A I Q		
UniRef90_G8TJY0	R L V H Y W A D G A G T S	T P S G H W D A L A A E		D F I K
UniRef90_A8L0R7	Q A A I W W H D	R H L G E W E I K R Q L A T G		
UniRef90_Q12CZ6	E T A R F W E	T T Q P V I Y Y P L A R A V A L Q P G R		
UniRef90_Q0IDH4	A I A E Y Y E G G P F T S F	P P G L W		Q Q Q S V D L S I S
UniRef90_I2ER98	R I A N Y W E D G A G S	Y T P P G H W H R T A A N S A H A		
UniRef90_A8UH84	V L A E F W A D G P D S	E T P P G H W F T I L N Y V N D H P E F E K R F Q G		
UniRef90_V6S7H0	D I A R F W	V E S S P Y G W N K I A R T I I		A Q
UniRef90_UPI000478EE68	Q I A L F W E D G P W G	I T P P G H F L Y I A A Q V		L Q H
UniRef90_G2Z587	K I V S F W A D	G V G T Y T P P G H W N A I A A E		T F V P
UniRef90_Q605W4	V V A E F W A D G P H S	E T P P G H W N T L A N A V A D S P G F P H R I G G		
UniRef90_A0A011Q2Y6	K I A N W W S D G L G	T Y T P P G H W N R A K E Y I I K Y		
UniRef90_UPI0004728B17	Q I A L F W E D G P W G	I T P P G H F L Y I A M Q L		L Q D
UniRef90_UPI0004104AAC	E I V S F W A D G V D	T Y T P P G H W N A I A S E T F V Q Q S Y		
UniRef90_W0REW9	A I A Q K W N D G A G	T Y T P P G H W N A I A		T S Y V A K
UniRef90_UPI00037130AA	Q A A H F W A N D L D G T Y K	P P G Q L L I Q H T A I I A R Q L P G Q D Q F A N		
UniRef90_UPI00036F0A30	E A A K W W H D	R R L T E W E I T R Q L A Q T		
UniRef90_UPI0003601647	V L A E F W A D G P D S	E T P P G H W F T I L N T V S D N P N L V R K F G G		
UniRef90_A4YMN4	S I A Q F W A Y D G T A G L C A P	P R L Y N Q I V D A V I E S S L V P S A P N V		
UniRef90_UPI00038317B1	V I G A F W W D H D L D G T Y H P	P G Q L L E L T G T L A		K K
UniRef90_D6TG25	V A A K F W A G P I W N T	W N E V A E K A A L I H R T		
UniRef90_U5VY55	E A A I W W H D	R R L G E W E I K R Q L A T T		
UniRef90_F8EGS1	R I A N Y W A D G A G S	Y T P P G H W H R		A A A N A A H E
UniRef90_UPI00036027A7	V L A E F W A D G P D S	E T P P G H W F T I M N Y V N D H P E L V K K F K G		
UniRef90_A6ENL2	V L A E F W A D G P D S	E T P P G H W F T I L N Y V S D H P G L V K K Y K G		
UniRef90_UPI00037CB1C6	V M A D F W A	G G T L G D T P V A L W S Q F A Q F V S G R D H Y A E		
UniRef90_K0JYE2	R I A W F W A N D V N G T Y K	P P G H M L E L T E A V S R		V
UniRef90_UPI00046F67D1	L I A K Y F N D S N P G	Y P A G A H Y L V N L K D V I E Q F		
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UniRef90_F4AY45	W I A E F W S D D V E G L M I S	P P G R Q I S I A N Q L I D Q		
UniRef90_I0KC46	R I A N Y W A D G A G S	Y T P P G H W H R T A A N A A H E		
UniRef90_H0TV94	E N A R F W L M V G	P P A Y H P F V R Q L V I A K Q		
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UniRef90_UPI0003B6676A	E L V A F W A D	G V G T Y T P P G H W N A I A A		D E F V K
UniRef90_G8S502	R S A I W W H D	R R L T E W D M K R Q L A I T		
UniRef90_UPI00047D360C	R I V Q F W A D	G V S T Y T P A G H W D A I A A E		D F I T
UniRef90_W2EIB6	Q A A I W W H D	R H L A E W E I K R Q L A T T		
UniRef90_B5JKZ2	L L A E F W A D G P A S	E T P P G H W N S L L N E V S D D E R R Y L G I G D		
UniRef90_UPI00046A8206	N I A L F W E	E V M P P I Y H G V R S V A E V D G R E		
UniRef90_A2TUM7	W I A E F W A D D V E G I M I S	P P G R Q F S I A N Q L I E Q Y		
UniRef90_UPI00047BD113	D V A R F W Q L T G T A T	H N P V T R H V A		A S
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UniRef90_A0A024H5D9	T A A I F W Q	A P P V A L W N G V E R G L A V E		
UniRef90_A0A024FD52	V L A E F W A D G P D S	E T P P G H W F T I L N Y V S D H P E F E K R F Q G		
UniRef90_K6XFA5	Q M A E F W A D G P E S	E T P P G H W F V I L N T V S D H E L F E K R W A G		

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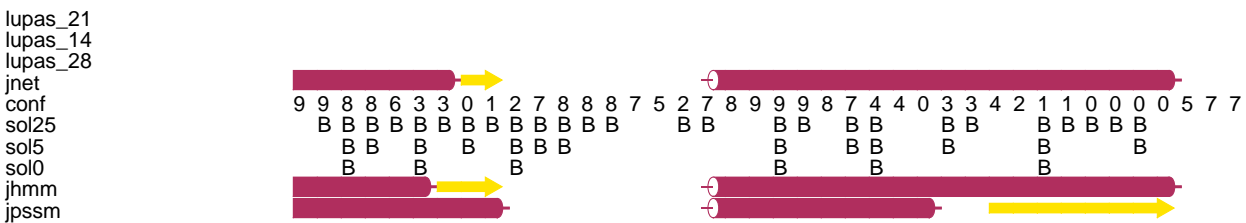
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