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

QUERY
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90 100 110 120
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I E L A V E A E E D D D Q T L V L Y A Q R D D A D E G V E A T T R L R L E F F R R R M F S G E Y
F D M G R A E E E D D D T L V S E M E S E L E G A K H T L L S E F F R R R M F S G E Y
W E M A M E E E K D D D T L V S E M E S E L E G A K H T L L S E F F R R R M F S G E Y
L E L V I E E E G D D S L L P D L Y D S D A Q A I E R K A R F F E S F F L L L L L S D E Y
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L E M A A E E G D E S V I T A A A R E V D A L G Y R A T A E D M E F F R R R M F S G E Y
L E L G E A E E G D E S V I T E A A G A V D E G V L E K A I D S E L Q L L M T M L N G E Y
I E M I E E E N D P S V L A S E G A G A V D E G V L E K A I D S E L Q L L M T M L N G E Y
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I E L G E A E E Q D D A T A V A E T E G E L D R V T A R V E E L E F F R R R M F S G E Y
L D M A V E E Q D D A T A V A E T E G E L D R V T A R V E E L E F F R R R M F S G E Y
I D L T E A E E G D A T L Y T E G I A A E V L R A A Q K L E A Q R R Q I A L L L S G E Y
I L L A E A E G D A S E K E G I D L L K R G L K I E A E A R R Q I A L L L S G E Y
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I D M A L E E G D D E S F A A I E E D V A S E L E K Q M A E F F R R R M F S G E Y
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C E L A I E E S E D D E S M L D E E L E T G F A S E L E E S I S R Q K L Q T L T G E Y
L D M A R E E E N D D Q T Y S E V V S G L D D D L R R S R V E L V E L E C M F S G E Y
I G L A D E E E N D E S V Y S E A L A D V E R F E S D L E T Q K L S T L L T G E Y
L E M L Q E E E D D E D M Q V I E L E E N V E K L G K K I E T Y E L E T M L N Q G E Y
I E L G E E E R D D E G V I A E A E A A I R D S M Q E A K A R Q V I E T L L S G E Y
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A E L A D M E G D E E S L I P A E A M L E E F T K E I D A L K F A T R L L T G E Y
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Q E M A N E D D P E M R E A M A Q E E V V Q A E Q T M V E L L Q I L L L P K D P N
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R E L L Q S E S D P E A R E E L K D S E A A L E Q L Q E Q L K I L L L P R D P N
Y E L A A E S A D D A G L E D E I S Q T F N K A K E N Y E K G S I L N L L S G E A
A E L A Q E E A D A D T L A E A S E S E L G R V K K D V E A L E V R T L L L S G E Y
L E L A V E A E D E E S T F N E A Q Q E L A E L E D K I I G L E F F R R R M F S G E Y
L Q L L E A E K D E S L Y T E V E K E I N H L E K L E R L E F F R R R M F S G E Y
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E Q M A D D S D A E M R Q L I E R D E G M A R L E E L D V I E L K R L L V P R D P D
V E M A G E E S G Q D A D D L L A E A A A D I L S K D L S E L E I R T L L S G E Y
K E L L R E K L E P D F R E L L V E T E L E A Q E E K K G E L K V L L L P R D P N
F E L G R E G E N V I E P E L A R E I A S I E Q A I E K L E S R T M L S E E T
L A E A D A E E M K E M L A E E I A E A E A E R D R L A E Q M P I L L L P R D P N
T E L S I E E G N H E M S E E L E K E L I S L E R K I D E F K I E I L N D G P Y
E E M L N E D D P E M A Q E E E M K A A K A T L E E Q L R Q D L Q I L L L P K D P N
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S E M Q E E Y D S D T Q V I E E R L L A L K E K L S I Y E L S L L N E P Y
E E M L A E D D A E M R E M G Q M E L N E A K Q R Q E E L L Q I L L L P R D P N
A E L A E M E S D E D S L N D A R A Q L K S L K E R A G R A E L E A L L S G E A
I E M G E A E G D E I V S E A E A A L K S L A V K A E A K E L E A L L D G E A
I E M A I E E N D S S L V T E V Y N E I S T L S D S V E N L R L E L M L S G E Y
I D Y L A N E D D E S L V Q E L D S Q L D I E K E F H P L K V K T L L S Q R F
Q E M P D E M R L A E E A P L N T A K I T A A E K N L Q I M L L P R D P K
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Y A L D N D P D M R E M A V I E V R E A K E L V T L E D L Q R M L L P K D P N
Q E L A A E E D A D T R V E A D T E Q L R K E I L E G L E Q R M T L L N G P H
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R A M L E E E D D D L R N M L V E E E R V L S D K E E K L E Q R L K P K D P N
L E D E E S S K D L E M Q K E L V E E F V F C E R K I T E W E T L R L L S G E L
V T E L Q S S L D E D M K E L V E E E Y V Q Y D Q Y A L F E V R V L L S G P Y
F A L T H E D P S L G N E I E R E V N T L T A E L I D T L E V G L A F S G Q Y
Y E L V K E E D D E S L F G T E I E R E A G V K Q L G K E L N E Y E L Q M L L S E P Y
Y E F V K E E D D Q E L R Q E L N E E L E K L I K D L N Q Y E L L L L S D P H

QUERY	D	S	A	D	C	Y	L	D	I	130	140	150	160																																			
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UniRef90_C1DB67	D	P	N	S	C	C	F	V	L	D	I	Q	A	G	S	G	G	T	E	A	Q	D	W	A	S	M	L	L	R	M	Y	L	K	R	Y	W	A	C	E	R	S	K	K	N	F	K	V	
UniRef90_R6MAB1	D	A	N	N	A	I	M	N	L	D	I	H	A	G	A	G	G	T	E	A	Q	D	W	T	S	M	L	L	R	M	F	T	R	Y	A	C	E	R	S	K	K	G	F	F	K	V		
UniRef90_COZ6T5	D	K	N	N	A	L	L	E	L	D	I	H	P	G	A	G	G	T	E	A	S	Q	D	W	A	S	M	L	L	R	Q	Y	T	R	Y	W	G	E	R	S	K	K	G	F	F	K	V	
UniRef90_D5W950	D	P	N	N	A	F	L	D	I	Q	A	G	S	G	G	T	E	A	Q	A	C	D	W	A	S	M	L	L	R	Q	Y	L	R	Y	W	C	E	R	S	K	K	G	F	F	K	V		
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UniRef90_B8GRJ1	D	E	N	N	A	Y	M	D	I	Q	A	G	S	G	G	T	E	A	Q	A	C	D	W	A	N	M	L	L	L	R	M	Y	L	R	Y	W	C	E	R	S	K	K	G	F	F	K	V	
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UniRef90_B8E5Q1	D	A	S	N	C	F	L	D	I	Q	S	G	S	G	G	T	E	A	Q	A	C	D	W	A	N	M	V	L	L	R	M	Y	L	R	W	G	E	A	H	G	F	S	P					
UniRef90_M5DGC0	D	P	N	N	C	F	V	L	D	I	Q	A	G	S	G	G	T	E	A	S	Q	D	W	A	A	M	L	L	L	E	R	M	F	T	R	Y	W	C	E	R	S	K	K	G	F	F	K	V
UniRef90_F6DND9	D	R	G	S	A	L	S	L	D	I	H	A	G	A	G	G	T	E	A	S	Q	D	W	V	Q	M	L	L	L	R	M	F	T	R	Y	A	E	N	H	H	G	F	F	K	V			
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UniRef90_L0E9H8	D	R	L	N	A	L	L	E	L	D	I	H	P	G	A	G	G	T	E	A	S	Q	D	W	A	Q	M	L	L	L	Y	R	M	Y	T	R	W	A	E	K	K	G	F	F	K	V		
UniRef90_R7ALN3	D	G	C	N	A	L	L	E	L	N	A	G	A	G	G	T	E	A	A	M	D	W	C	S	M	L	L	L	Y	R	M	Y	T	R	W	A	D	K	K	G	F	F	K	V				
UniRef90_A1VL58	D	P	L	N	C	F	L	D	I	Q	A	G	A	G	G	T	E	A	C	D	W	A	S	M	L	L	L	R	Q	Y	L	K	Y	A	E	R	K	K	G	F	F	K	T	T				
UniRef90_H1XP10	D	P	K	N	A	L	L	T	T	F	H	P	G	A	G	G	T	E	A	S	Q	D	W	A	S	M	L	L	M	R	M	Y	L	R	F	A	E	R	K	K	G	F	F	K	T	T		
UniRef90_D4MHL4	D	H	N	N	A	L	L	T	F	H	A	G	A	G	G	T	E	A	Q	D	W	V	E	M	L	L	L	Y	R	M	Y	N	H	W	A	E	Q	H	G	M	K	V						
UniRef90_UPI0002EB7E01	D	P	L	N	C	F	M	D	I	Q	A	G	A	G	G	T	E	A	Q	A	C	D	W	A	S	M	L	L	L	R	Q	Y	L	R	Y	C	E	N	K	D	F	F	K	A	T			
UniRef90_UPI0003B67A3F	D	A	N	N	C	F	L	D	I	Q	A	G	A	G	G	T	E	A	Q	A	C	D	W	A	S	M	L	L	L	R	M	Y	T	R	W	A	E	G	K	K	G	F	F	K	V			
UniRef90_A8IFK1	D	S	N	D	T	Y	L	E	V	H	A	G	A	G	G	T	E	A	S	Q	D	W	A	E	M	L	L	L	R	M	Y	R	R	W	C	E	R	H	G	F	F	K	V					
UniRef90_D1PN73	D	H	N	N	A	L	L	T	F	H	A	G	T	G	G	T	E	A	Q	D	W	A	E	M	L	L	L	Y	R	M	Y	T	R	W	A	E	A	H	G	F	F	K	V					
UniRef90_C5R8M1	D	K	N	N	A	L	L	E	V	H	P	G	A	G	G	T	E	A	S	A	D	W	G	A	N	L	L	L	Q	R	M	Y	T	R	W	A	E	Q	H	H	G	F	F	K	V			
UniRef90_D8JU72	D	G	M	S	T	Y	V	E	V	H	A	G	A	G	G	T	E	A	S	Q	D	W	A	S	M	L	L	L	A	R	M	Y	A	R	W	A	E	R	R	G	F	F	K	V				
UniRef90_UPI0003692256	D	P	N	N	A	Y	L	D	I	Q	A	G	S	G	G	T	E	A	Q	A	C	D	W	A	N	M	L	L	L	R	M	Y	L	R	W	G	E	R	R	G	F	F	K	T	T			
UniRef90_E1IEJ5	D	D	R	D	A	F	L	S	V	E	H	A	G	M	G	G	T	E	A	S	Q	D	W	A	D	M	L	L	L	R	M	Y	L	R	W	A	E	R	H	R	F	F	K	V				
UniRef90_B2II03	D	S	N	D	T	Y	L	E	V	H	S	G	A	G	G	T	E	A	S	C	D	W	A	R	M	L	L	L	F	R	M	Y	A	R	W	A	E	R	H	R	F	F	K	V				
UniRef90_D1C1P0	D	E	H	D	A	I	M	A	I	H	A	G	T	G	G	T	E	A	Q	D	W	A	E	M	L	L	L	M	R	M	Y	L	R	W	A	S	N	R	K	G	F	F	K	A	T			
UniRef90_V7ICY9	D	V	J	N	N	C	F	I	D	I	T	A	G	A	G	G	T	E	A	E	D	W	A	G	M	L	L	L	L	R	M	Y	V	R	Y	C	E	R	K	K	G	F	F	K	V			
UniRef90_D7AM99	D	K	N	S	C	F	I	D	I	N	A	G	A	G	G	T	E	A	A	Q	D	W	A	E	M	L	L	L	R	M	Y	L	R	Y	C	E	R	K	K	G	W	K	T	T				
UniRef90_R8VXR3	D	K	N	N	A	L	V	S	F	H	A	G	A	G	G	T	E	A	Q	D	W	C	S	M	L	L	L	Y	R	M	Y	T	R	W	A	E	S	H	G	F	F	T	Y					
UniRef90_E8RES9	D	A	N	N	A	I	L	T	F	H	A	G	A	G	G	T	E	A	Q	D	W	V	G	Q	M	L	L	L	L	R	M	Y	L	R	W	A	E	S	K	G	F	F	K	A	T			
UniRef90_B0PF23	D	A	N	N	A	I	M	T	F	H	A	G	A	G	G	T	E	A	Q	D	W	A	Q	M	L	L	L	L	Y	R	M	Y	T	R	W	A	E	R	H	G	F	T	Y					
UniRef90_S0JYV3	D	H	M	N	A	L	L	E	I	H	P	G	S	G	G	T	E	A	S	Q	D	W	G	S	M	L	L	L	M	R	M	Y	E	R	W	G	A	A	H	G	F	F	K	V				
UniRef90_E8TLD6	D	S	N	D	T	Y	L	E	V	H	A	G	A	G	G	T	E	A	S	Q	D	W	A	S	M	L	L	L	L	Y	R	M	Y	T	R	W	A	E	R	R	R	F	F	K	V			
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UniRef90_E8RT08	D	G	N	D	A	Y	V	E	I	N	S	G	A	G	G	T	E	A	S	C	D	W	A	G	I	L	L	L	L	R	M	Y	T	R	W	A	T	Q	H	G	M	T	V					
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UniRef90_V6F019	D	A	N	D	C	Y	L	E	I	N	S	G	A	G	G	T	E	A	Q	D	W	A	E	M	L	L	L	L	L	R	M	Y	S	R	Y	W	A	E	Q	H	G	Y	K	L				
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UniRef90_UPI00037AB835	D	G	N	D	S	Y	V	L	E	I	N	A																																				

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170 180 190 200
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V L D Y L P G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E V L D F L P G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
T I E D E S A G D T A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E I M D Y Q P G E E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
V L D Y L P G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
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L L E L S A G D G V A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
L V D E S A G G E Q A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
V L D V L D G D E A G I K S A S A S M M I K T G A N A Y G M L K S E H G V H H R L V R
D I M D Y H P G G E V A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
K L I D E S P G G E V A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E L I E A S P G G E V A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
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E I E E T A G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
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I M E Q D D G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E I T D F Q D G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
K I M D Y Q D G E E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
D I L D L P G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
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E I M S S N E T D I G G F K E V I L N I S G K G S Y S R L K Y E S S G V H H R L V R
E I V S A S E G E H G G Y K E V I A R I V G N D G A Y S R L K F E S S G A H H R L V R
E V L S A N E A E H G G Y K E V I S R V S G N G V Y G R L K F E S S G V H H R L V R
K T L N Y Q S G D T A G I K T V T I E I S G D Y A F G W L K F E N G V H H R L V R
D I M D T S Y S D L G G F K E I I F L V E G R G A Y S K L K F E S S G V H H R L V R
E V I D R L D G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
D V L D Y Q P G E E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E V L D Q S P G E E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E T L D Y L P G D E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R
E T L N Y L P G E E A G I K S A S A T L K R V I S E D G Y A Y G W L R T E T G V H H R L V R

QUERY	Y	R	A	S	G	A	G	G	Q	250	H	V	N	R	T	E	S	A	V	R	I	260	H	L	P	T	G	I	V	V	270	Q	Q	Q	N	D	R	R	S	Q	H	K	N	280				
UniRef90_D5CS04	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N						
UniRef90_Q7VNG1	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	L	T	H	L	P	T	S	N	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_C1DB67	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	L	T	H	L	P	T	S	N	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_R6MAB1	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	M	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_COZ6T5	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	S	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_D5W950	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	M	P	T	S	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_UPI000370275E	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	V	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_B8GRJ1	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	M	P	T	S	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_F9ZET2	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	N	P	T	G	L	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_B8E5Q1	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_M5DGC0	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	N	P	T	G	L	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_F6DND9	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_UPI0004758A46	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	E	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_L0E9H8	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_R7ALN3	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	L	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_A1VL58	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	T	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_H1XP10	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	T	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_D4MHL4	Y	R	A	S	G	A	G	G	Q	K	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	G	I	V	V	C	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI0002EB7E01	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	I	T	T	H	L	P	T	S	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI0003B67A3F	M	R	S	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	T	T	H	V	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_A8IFK1	F	R	S	S	G	A	G	G	Q	H	V	N	K	T	E	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_D1PN73	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	K	P	T	G	I	V	V	S	C	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_C5R8M1	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	S	G	I	V	V	A	S	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N		
UniRef90_D8JU72	A	R	S	S	G	A	G	G	Q	H	V	N	R	T	E	S	A	V	R	L	L	T	V	H	K	P	S	G	I	V	V	I	F	A	S	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N
UniRef90_UPI0003692256	Y	R	A	S	G	A	G	G	Q	H	V	N	R	T	E	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_E1IEJ5	F	R	S	S	G	H	G	G	Q	G	V	N	T	T	D	S	A	V	R	L	L	T	H	L	P	T	S	G	I	V	V	A	T	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N		
UniRef90_B2I103	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	S	G	I	V	V	A	T	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N		
UniRef90_D1C1P0	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	T	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_V7ICY9	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	M	T	H	L	P	T	G	I	V	V	A	T	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_D7AM99	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	C	C	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N	
UniRef90_R8VXR3	F	R	S	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	K	P	T	G	I	V	V	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_E8RES9	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	F	P	T	G	I	V	V	S	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N				
UniRef90_B0PF23	F	R	S	S	G	A	G	G	Q	H	V	N	K	T	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	S	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N					
UniRef90_S0JYV3	F	R	S	S	G	A	G	G	Q	N	V	N	K	V	S	T	G	V	R	L	L	T	H	V	P	T	G	I	V	V	A	S	T	M	D	R	T	Q	Y	G	N							
UniRef90_E8TLD6	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	S	T	M	D	R	T	Q	Y	G	N							
UniRef90_UPI0003FFF3C3	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_E8RT08	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_E6LRE2	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI00036E5D69	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	V	P	T	G	V	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI00047DF91D	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	V	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_R5SFL4	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	F	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI00037CAEC6	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	F	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_E6MGH2	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI0003758442	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	M	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI0003818A23	Y	R	A	S	G	P	G	G	Q	S	V	N	T	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_R5GLG5	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	K	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_UPI000472783A	F	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	L	V	V	E	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N		
UniRef90_V6F019	Y	R	A	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A	A	Q	Q	Q	Q	N	D	R	R	S	Q	H	K	N			
UniRef90_R6J3S9	F	R	S	S	G	A	G	G	Q	H	V	N	K	T	D	S	A	V	R	L	L	T	H	L	P	T	G	I	V	V	A																	

QUERY	290	300	310	320
UniRef90_D5CS04	KAEAMSKML	KSRRLYEEL	EMQKRN	AAEKQAAME
UniRef90_Q7VNG1	KDQACMSQL	KRAKRLYEL	EMMQRN	AAEKQAAME
UniRef90_C1DB67	RAEAMSKML	KARLRFEL	ELMQRN	AAEKQAAME
UniRef90_R6MAB1	KERCLQLL	KARLRFEL	EYKAEI	QDQKLSADL
UniRef90_COZ6T5	RERAMKML	TARLRFEL	EAKREI	QEQKLSADL
UniRef90_D5W950	RAEAMAMML	KSRRLYER	EELRQR	QAQAEKQAV
UniRef90_UPI000370275E	REMANMQL	KAKLLE	ERELQEQ	RNAQAQAV
UniRef90_B8GRJ1	RDTAMKQL	KAKLLE	EELRQR	QAQAEKQAV
UniRef90_F9ZET2	KADALTML	KSRRLYEL	EELRQR	QAQAEKQAV
UniRef90_B8E5Q1	KDAMAMKQL	KAKLLE	EELMQR	QAQAEKQAV
UniRef90_M5DGC0	RADAMAMML	KSRRLYEL	EELRQR	QAQAEKQAV
UniRef90_UPI000370275E	RMAAMKML	KAKLLE	EDLELQR	KKQAEKQAV
UniRef90_UPI0004758A46	RDFAMKQL	RARLWEH	EMAKRN	EAQAQAE
UniRef90_L0E9H8	RERAMKML	KAKLLE	ELKKEE	QRNAQLS
UniRef90_R7ALN3	KDKAMQML	KAKLLE	ELKQEQ	REKLSADL
UniRef90_A1VL58	RDVAVKRL	RSRLYDF	ELERQR	QAQAEKQAV
UniRef90_H1XP10	KANALKIL	AARLLE	ELKKEE	QLAKKKE
UniRef90_D4MHL4	REYAMRML	KSKLLE	EELKRE	HLDKLSADL
UniRef90_UPI0002EB7E01	RAEAMQML	KSRRLYEM	EMRER	MAEQKME
UniRef90_UPI0003B67A3F	RDAAMKML	RSRMLY	EEMELQR	RNVAKQK
UniRef90_A8IFK1	RATAMKML	RARLRF	EEMELQR	REAAQAE
UniRef90_D1PN73	REYAMEML	KAKLLE	YQIALQQ	HKDKD
UniRef90_C5R8M1	KDTAYAML	RARLLE	YELKKEE	QRNAQLS
UniRef90_D8JU72	KDIAFRRL	KARLLE	YEMELQR	REKLSADL
UniRef90_UPI0003692256	KDQCMKQL	KAKLLE	YFELQQR	RNSEAQAV
UniRef90_E1IEJ5	RETAMRVL	RGRRLY	ELERQR	LEEAARL
UniRef90_B2II03	RATAMKML	RARLLE	YKELER	REANATE
UniRef90_D1C1P0	RETAMKIL	RARLLE	TELALR	REEQAKL
UniRef90_V7ICY9	RRVCEML	RARLLE	FELEMR	QRNEEKQ
UniRef90_D7AM99	KATALRML	RARLLE	YKELER	REAVQAE
UniRef90_R8VXR3	KDNCKMML	RSKLE	VEIKERE	HLDKLSADL
UniRef90_E8RES9	KATAMKML	MARLLE	YERERE	QQRNTQ
UniRef90_B0PF23	REMCMKML	TAKLLE	YERERE	HLDKLSADL
UniRef90_S0JYV3	RDKAMAMML	KSKLLE	YQELMQR	KQAEVDE
UniRef90_E8TLD6	KAKAWEMML	RSRRLY	EELKKEE	REAVANAT
UniRef90_UPI0003FFF3C3	KDKAMQML	KAKLLE	YELKKEE	QRNAQLS
UniRef90_E8RT08	RDEAWKML	RARLLE	YELKKEE	QRNAQLS
UniRef90_E6LRE2	KDKAMQML	KAKLLE	YELKKEE	QRNAQLS
UniRef90_UPI00036E5D69	RDRAMKML	KAKLLE	YELKKEE	QRNAQLS
UniRef90_UPI00047DF91D	RDEAWQML	RARLLE	YFELQQR	RQAQAEKQAV
UniRef90_R5SFL4	KDKAMQML	KAKLLE	YELKKEE	QRNAQLS
UniRef90_UPI00037CAEC6	RETAMKML	RARLLE	YERERE	QQRNTQ
UniRef90_E6MGH2	REVAMNML	KSKLLE	VEIMAQE	QKEKLE
UniRef90_UPI0003758442	REMAKML	RSRRLY	EYEQRAE	QRNEEL
UniRef90_UPI0003818A23	KASALAVL	QSKLLE	YVQRRE	EKALSD
UniRef90_R5GLG5	RDFAMKML	MSKLE	VEIKERE	HLDKLSADL
UniRef90_UPI000472783A	RAKAMSVL	AARLLE	YKAEEL	EKRRAEA
UniRef90_V6F019	RARAWMML	RARLLE	YKAEEL	EKRRAEA
UniRef90_R6J3S9	KDKAMKVL	RARLLE	YDAEKAK	HDAAJA
UniRef90_UPI00037AB835	KAEAYNQL	RARLLE	YHELRK	REEAANA
UniRef90_U2K529	RATAMSKML	KARLLE	YEQYKRE	KEANAKF
UniRef90_UPI000477255F	KASAMVVL	KAKLLE	LARKKAE	EAAALKK
UniRef90_UPI00036F2CAB	KDQAMKQL	KAKLLE	YELKKEE	QRNAQLS
UniRef90_C1DXP5	KLKAAMKML	KAKLLE	YQELKKEE	QRNAQLS
UniRef90_B7HX15	REHAMKML	KAKLLE	YQKKEE	QRNAQLS
UniRef90_D1VSK7	RERAMQTL	KAKLLE	YALAEEL	EKRRAEA
UniRef90_V4JNJ6	KDQAMKQL	KAKLLE	YELKKEE	QRNAQLS
UniRef90_F7XY10	KDQAMKQL	KSKLLE	YFELQQR	KNAEQQT
UniRef90_F6IQ25	REIAMGML	KARLLE	YFEEEMR	KEEAASAE
UniRef90_UPI0002197028	RVTAMNML	KSKLLE	YERERE	QKEKLE
UniRef90_W1NBY5	RAKAMSL	AARLLE	KQAALDS	RQEQQA
UniRef90_UPI00040C207D	RAAMRVL	QSRLL	LLELQQR	EEDARKK
UniRef90_F6CQ57	KEKAMRVL	RARLLE	LDRLQEE	QQQKLSA
UniRef90_E8V0V1	KDKAMKML	RSRRLY	EFELQQR	KKAISSR
UniRef90_U2K9X8	REKAMKVL	RARLLE	YDRAQQE	RAAVAA
UniRef90_B9MLV6	REIALKIL	KAKLLE	YELKKEE	QRNAQLS
UniRef90_W7R3N0	KAKAMSVL	VARIL	QAADDE	KRRLE
UniRef90_R5BDC9	RDKAMRVL	KSRRLY	ELQQR	SKAAEA
UniRef90_R2QSA6	REQAMGML	KAKLLE	YQELMQR	KAAEAAS
UniRef90_UPI00047A2DA2	RAKAMSVL	QARLLE	YQQLDQR	RQEEQST
UniRef90_B8GWM3	REEAWKML	RARLLE	YEAELQR	REAAQAL
UniRef90_X7EMZ1	RDIAMKAL	KSRRLY	YQELER	RHAENAH
UniRef90_D9STI9	RETALNML	KSKLLE	VEIKERE	HKKEKLE
UniRef90_F4GJC5	KEVAFKML	RSRRLY	EYEQRAE	QRNEEL
UniRef90_UPI00037C1321	KEKAFKML	AARLLE	LAKLEEL	EKRRAEA
UniRef90_R6XIT4	KETAMKML	KSKLLE	LAKLEEL	EKRRAEA
UniRef90_V8R3I3	RARAWMML	SAKLL	NDQQR	NAEAANA
UniRef90_UPI000477C613	KATAMSKML	QAKLLE	LARQRRE	EEQAAL
UniRef90_UPI00047A6CB4	RETAMRML	KARLLE	YELKKEE	QRNAQLS
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E V I F D T S P E E E A G L K S A T L F Q V K C P Y A Y G T L R S H H G V V H R R V V Q R R
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T V L D E T T S D L G G G Y K D A T L S I P E G S V W S R M K F E E S S G V V H R R V V Q R R
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E V D S V S T E T E L G G G V K E I S F T I E S G D G R A Y S R L K F E E S S G V V H R R V V Q R R
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E L V E M T D G E E A G I K G A T L L I K S H N A Y G W L K T E S S G V V H R R V V Q R R
A 9 W 6 T 9
E T V D V T E G T A G G Y K E V I L K V S S G G E D V Y R G K F E E S S G V V H R R V V Q R R
C 6 X W L 9
E V L G S N P T G L G G Y K E V V F E I N G G K V W R C F K F E E R G A H R R V V Q R R
B 1 G Z I 5
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UniRef90_Q090K6	V	P	A	T	E
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UniRef90_T1DWI4	I	V	P	T	T
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UniRef90_B1R155	V	S	P	Y	N
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UniRef90_L0A4R2	V	S	P	A	T
UniRef90_D3PN93	V	V	P	A	T
UniRef90_O51101	I	S	P	F	D
UniRef90_E1R4Q8	V	P	S	T	E
UniRef90_W2BYS3	V	V	T	E	S
UniRef90_U1SGE7	I	V	V	T	E
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UniRef90_W7ZJT8	D D K N V I V E I	R G A A G G G D E A Q L F A S D L F K M Y S Y R F A E M Q G W K T			
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UniRef90_R5FTD0	D D K N V V C E I	R G A A G G G D E A N	I F A G D L F R M Y S R Y A E E S K N W K I		
UniRef90_F9Z7T2	D S K N V I L E I	R G G T G G G D E A C	L F A G D L F R M Y A K F C E E R K G W K V		
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K P I S A S E S D D L G G F K S I T F F K V I E G G K Y A Y G G Y L R Q N E E K A G G T H R R L V Q R
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E I I D S L P G E E A G L K S V T V R I E G D Y A Y G L L C Q D S S G V H H R R V Q R
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S L L K Y E T A D E S P L Q E A I V E S I E S A G A Y G K L R S Y E A G V H H R R V Q R
E V L E Y T P S E I G G L R H A V A S I A D E V E A S Y K Y M K Y E E S G V H H R R V Q R
K I V S T G K T S G G F L R N E A I L S I I A D E P G S Y D R L R H H A G V H H R R V Q R
T I L K Q D T P S E D R L S E A V I E I Q R A N G A Y D I L R T E S G V H H R R V Q R
E L I D Q Q D G E Q A G V L S E F I I R R G E A G A Y D M M A P E H G V H H R R V Q R
K V V K Y S A E G E L P L Q E A I L E I E R D A G A Y D A F R A E A G M H H R R V Q R
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T I I K Y E T I D D A P I A E V V L E I E T S P Y A Y G R L S V E A Q G T H H R R V Q R
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S I V K Q D M E N D N R L S E A V V E I Q D Q G A F D T F R S E A G M H H R R V Q R
H V I A Q N E N Q S N D L V D A I L S I I D E P G A Y D K L K Y E E S G V H H R R V Q R
N V Q S E N T T E L G G V K D V Q I A I I P E D G V W A S M K Y E E S G V H H R R V Q R
D L L K E Y F S E L G G L R H A E A T L M A S I G D S A G A Y G K L R T E A G V H H R R V Q R
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E L I G M N P T E L G G F K E A I V L G L T Q T G E G V F R H L E Y E S G G H H R R V Q R
E E I S R V I E G T G G K G G G I R E I T V K V Y G A L Q W E S K G V H H R R V Q R
R V V E K Y A S K N G G I K S A T I E F E S E Y V G Y G Y L S G E R G V H H M I R
M M S S N E A E H G G Y K E M I A K V S G D G A Y G V L K F E E S G G H H R R V Q R
D I L E H T T S E V R T L R H A S A S S G P P Y A Y K R R M K F E A G V H H R R V Q R
T L L K K E T E N E N D R L I E A V M E I E T P G S Y E T L R T E A G V H H R R V Q R
E Q L D F S T S E K N G F R E E V I F N I K G P G V W S E L L G Y E G G T H H R R V Q R
E V L N Y M P S E E Y G G L R H H A A V R L S G E C V Y K Y L K Y E E G G T H H R R V Q R
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R V V E K R S S M N G G I K L A T I E F E F K F A Y G Y L S G E R G V H H M I R
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E M L S S T S V D V S S L K E A I V E V K G K G V F Q K L K F E A G V H H R R V Q R
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D L L S A T P V D V D A Y R E A I L Q L H G P N A F E A L R F E A G V H H R R V Q R
K P L S L S K T E N G N G T E A L V S V S G H V Y G E L F F Y E A G V H H R R V Q R
D I L N Y T P A E I G G L R H H A A A H I S G D C V Y R Y L K Y E E G G T H H R R V Q R
E L L N Y T P A D Y G G L R H H A A A R I S G D S V Y K H L K Y E E G G I H H R R V Q R
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UniRef90_D0JBI5	I	K	T	E
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UniRef90_F2U393	V	V	I	T
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UniRef90_Y3BQH6	V	P	E	T
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UniRef90_E3QKU6	V	V	P	A
UniRef90_J7RQ21	V	V	P	D
UniRef90_R7PP38	V	V	P	E
UniRef90_X11141	I	S	P	F
UniRef90_I2K184	I	P	Q	T
UniRef90_A5DMP0	V	P	A	T
UniRef90_A7TJJ1	V	V	P	A
UniRef90_UPI0002B46B5F	V	V	P	Q
UniRef90_Q75B56	V	V	P	A
UniRef90_UPI0003F0EDA3	V	V	P	K
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UniRef90_M2R0M3	V	V	P	A
UniRef90_K1WVY0	V	V	P	A
UniRef90_UPI0003958042	V	V	P	K
UniRef90_H8X732	V	V	P	E
UniRef90_B6HEY3	V	V	P	A
UniRef90_UPI000368695C	V	V	S	P
UniRef90_G3JUF7	I	V	S	T
UniRef90_G7SPU4	I	V	P	R
UniRef90_UPI00035E042E	I	V	S	P
UniRef90_W9CJ38	V	V	P	A
UniRef90_M1VV50	V	V	P	S
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UniRef90_R5MUW4	V	V	V	P
UniRef90_UPI00034F6379	V	V	V	P
UniRef90_N1JLV2	V	V	V	P
UniRef90_X0VRR8	V	V	P	E
UniRef90_E6RDMQ1	V	V	P	A
UniRef90_A5BMQ9	V	S	D	E
UniRef90_Z2EA19	V	V	P	A
UniRef90_I3IXQ8	V	V	P	K
UniRef90_UPI000219627B	I	S	P	F
UniRef90_CONIX9	V	V	P	T
UniRef90_X0RYF5	V	V	P	E
UniRef90_H3AQV2	V	L	P	E
UniRef90_V7BLU0	D	S	N	E
UniRef90_UPI0003EC20F4	V	V	P	K
UniRef90_J9WT91	V	I	S	P
UniRef90_M2ZVC3	V	V	P	A
UniRef90_W9S846	V	V	V	P
UniRef90_X1U632	V	V	V	P
UniRef90_I2FZQ1	V	V	V	P
UniRef90_UPI00035A0654	V	V	V	P
UniRef90_K7FCK4	V	V	V	P
UniRef90_W9W5U1	V	V	V	P
UniRef90_V4AL43	V	V	V	P
UniRef90_UPI00038C2D8E	V	V	V	P
UniRef90_K7IUL3	V	V	V	P
UniRef90_K2RW28	V	V	V	P
UniRef90_B4MX15	V	V	V	P
UniRef90_A8PX78	V	V	V	P
UniRef90_B6JY59	V	V	V	P
UniRef90_M7B8U3	V	V	V	P
UniRef90_M3XFF4	V	V	V	P
UniRef90_S8A979	V	V	V	P
UniRef90_I4YB58	V	V	V	P
UniRef90_W8PN41	V	V	V	P
UniRef90_S2R117	V	V	V	P
UniRef90_K2A094	V	V	V	P
UniRef90_R9YK90	V	V	V	P
UniRef90_E2BXM6	V	V	V	P
UniRef90_M1VAE7	V	V	V	P
UniRef90_R9ASE9	V	V	V	P
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UniRef90_U6HLW2	V	V	V	P
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UniRef90_UPI0002C35C08	V	V	V	P
UniRef90_E3KYH0	V	V	V	P
UniRef90_W5NEM1	V	V	V	P
UniRef90_R1BUJ4	V	V	V	P

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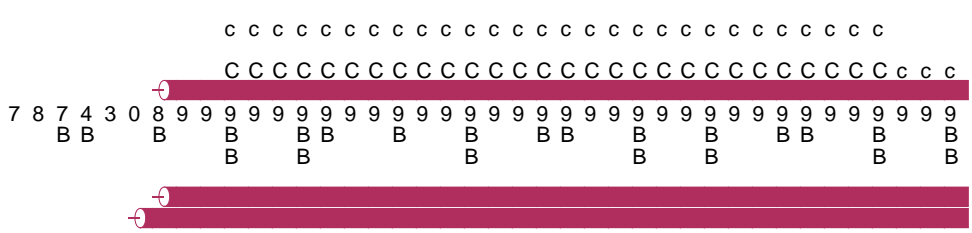
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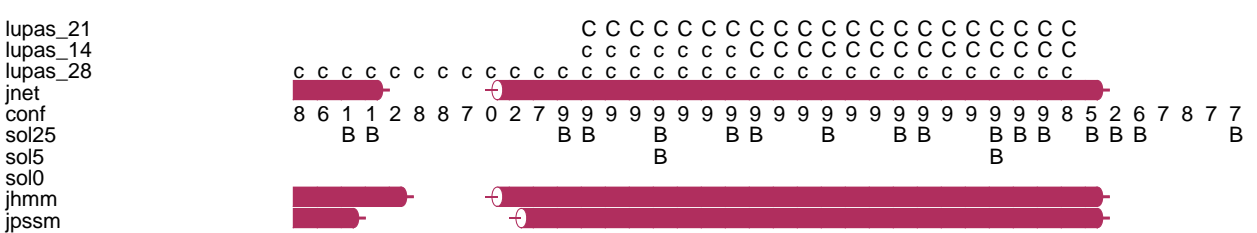
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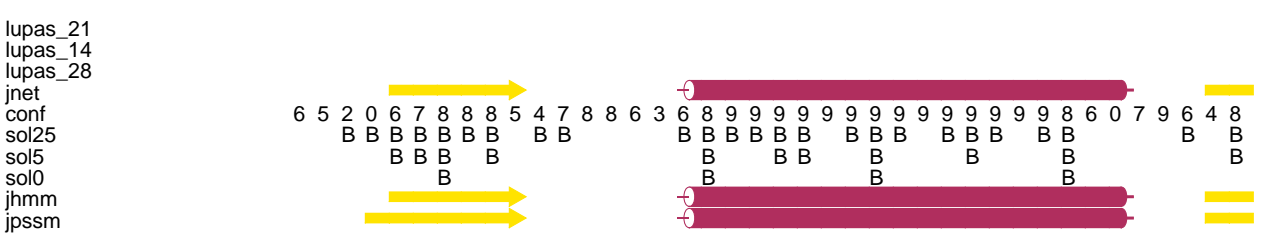


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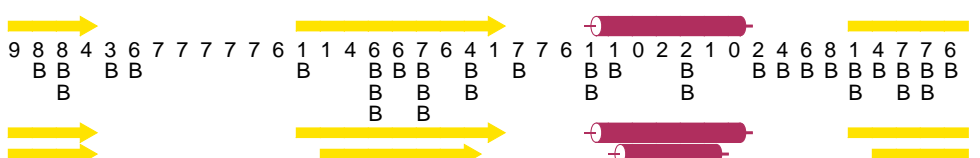
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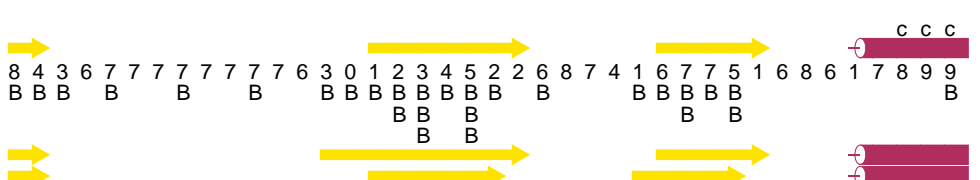
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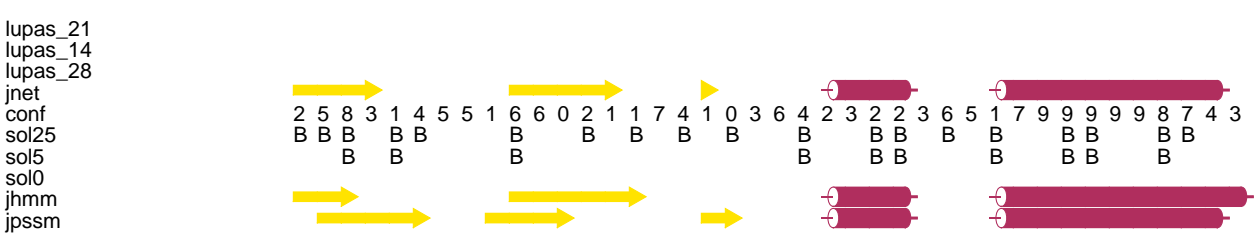
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