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U n i R e f 9 0 _ B 3 S 0 X 5
U n i R e f 9 0 _ U P 1 0 0 0 3 D 7 0 5 9 C
U n i R e f 9 0 _ H 2 M W L 0
U n i R e f 9 0 _ A 0 A 0 2 3 E X I 1
U n i R e f 9 0 _ F 4 P 8 A 3
U n i R e f 9 0 _ A 5 D Z V 6
U n i R e f 9 0 _ U P 1 0 0 0 1 F E 2 6 E C
U n i R e f 9 0 _ A 7 S 3 5 0
U n i R e f 9 0 _ F 6 U E 3 3
U n i R e f 9 0 _ F 2 Q P 8 3
U n i R e f 9 0 _ G 1 X V 7 6
U n i R e f 9 0 _ T 2 M 2 M 8
U n i R e f 9 0 _ W 2 S 6 U 8
U n i R e f 9 0 _ F 2 U I D 5
U n i R e f 9 0 _ G 8 Y V G 4
U n i R e f 9 0 _ S 9 W 5 F 8
U n i R e f 9 0 _ B 3 R P U 5
U n i R e f 9 0 _ S 9 P N E 7
U n i R e f 9 0 _ M 5 B J G 5

50 60 70 80

90 100 110 120

QUERY	UniRef90_S8C9E7	UniRef90_N6TPQ0	UniRef90_D1LWZ6	UniRef90_Q4SN92	UniRef90_E9FUV7	UniRef90_I0Z9I1	UniRef90_M7XU66	UniRef90_Q4T285	UniRef90_UP10003F4A5E6	UniRef90_R1E490	UniRef90_G7PY22	UniRef90_M2XYX3	UniRef90_J3MM34	UniRef90_Q01AF8	UniRef90_C5KDT5	UniRef90_K7U7E1	UniRef90_T1G2F2	UniRef90_D8QTL1	UniRef90_S8CX12	UniRef90_U7Q2E2	UniRef90_W4KE53	UniRef90_E3KS20	UniRef90_E3QSI3	UniRef90_Q0CIX2	UniRef90_G2XDD4	UniRef90_G7EA71	UniRef90_M5E7B8	UniRef90_S3CX44	UniRef90_A0A024JA82	UniRef90_I2FVH0	UniRef90_T1ELT5	UniRef90_UP1000440904F	UniRef90_M3B7Q5	UniRef90_H2TON6	UniRef90_UP10003ACA01F	UniRef90_T0QID2	UniRef90_Q7SAX4	UniRef90_UP1000455DB3E	UniRef90_S2JUI3	UniRef90_Q4RGG5	UniRef90_UP10003DED803	UniRef90_A8NXE0	UniRef90_U6P761	UniRef90_UP10004418362	UniRef90_E5S7R3	UniRef90_UP10004411D6D	UniRef90_C1E9X0	UniRef90_V7D195	UniRef90_F1L7K8	UniRef90_D8PRN3	UniRef90_R0F3H1	UniRef90_UP10003594986	UniRef90_H9J557	UniRef90_W4YVZ3	UniRef90_C4Y7I3	UniRef90_E5SR03	UniRef90_E0VGS6	UniRef90_F2UF98	UniRef90_S4RFX5	UniRef90_T1IKC1	UniRef90_S8CDN2	UniRef90_L1J2N4	UniRef90_H2Y4A9	UniRef90_K0L0D1	UniRef90_UP10002659589	UniRef90_A0A022XMU5	UniRef90_A9VOS6	UniRef90_B6K1P9	UniRef90_B6JXA1	UniRef90_I0YI10	UniRef90_T1J4F0	UniRef90_A8XWC0	UniRef90_B3S0X5	UniRef90_UP10003D7059C	UniRef90_H2MWL0	UniRef90_A0A023EXI1	UniRef90_F4P8A3	UniRef90_A5DZV6	UniRef90_UP10001FE26EC	UniRef90_A7S350	UniRef90_F6UE33	UniRef90_F2QP83	UniRef90_G1XV76	UniRef90_T2M2M8	UniRef90_W2S6U8	UniRef90_F2UID5	UniRef90_G8YGV4	UniRef90_S9W5F8	UniRef90_B3RPU5	UniRef90_S9PNE7	UniRef90_M5BJG5		
Q A L R Q F L W S F R L P G K A Q K I D M M E A F A Q R Y C L C N P G V F Q S	E A I R V F L Q G F R L P G E A A Q K I D R I M E K F A E R Y C K C N P K A F T S	E A L R Q F L W S F R L P G E A A Q K I D R M M E C F A K R Y C D C Q N I F E N	Q A L R Q F L W S F R L P G E A A Q K I D R M M E A F A Q R Y C H C N P G V F Q S	Q A L R Q F L W S F R L P G E A A Q K I D R M M E T F A Q R Y C Q N P N I F S S	T A I R T F F L S G F R L P G E A A Q K I D R Y M L K F A E R Y T A G N P G V F A N	D A L R M F L Q S F R L P G E A A Q K I D R M M E A F A Q R Y C C C N P G V F Q S	Q A L R Q F L W S F R L P G E A A Q K I D R Y M L K F A E R F M H N N P E T F A N	D A V R M Y L Q A F R L P G E A A Q K I D R F M L K F A E R F M H N N P E T F A N	Q A L R R F L T H F W L P G E A A Q K I D R M M E C F A E R Y C S Q N E G V F A N	Q A L R Q F L W S F R L P G E A A Q K I D R M M E A F A Q R Y C L C N P G V F Q S	Q A L R Q F L S N F R L P G E A A Q K I D R I M E K F A S R Y C A C C N P E L F A N	E A I R L F L K G F R L P G E A A Q K I D R I M E K F A E R Y C A D N P G L F K N	A A V R E F L K G F R L P G E A A Q K I D R I M E K F A E R Y C H K L N P T I Y K S	D A I R K F L E G F R L P G E S Q K I D R I M E K F A E R Y H K C K E N P E V Y A N	S A L R E F L D N F R L P G E S Q K I D R M M E K F A E R Y H C K E N P E V Y A N	S A L R Q F L Q S F R L P G E A A Q K I D R F M L K F A E R Y I E G N A N P P F A N	D A L R V Y L Q A F R L P G E A A Q K I D R F M L K F A E R Y I E G N A N P P F A N	E A I R Y Y L R G F R L P G E A A Q K I D R I M E K F A E R Y C K C N P N S F T S	Q A L R Q F L W S F R L P G E A A Q K I D R M M E C F A Q R Y C E L N P Q V F S C	E S I R T F F L M G F R L P G E A A Q K I D R I M E K F A E R Y C L C N P K A F T S	D A I R F F L K G F R L P G E A A Q K I D R I M E K F A E R Y C K C N P N S F T S	D A I R F F L K G F R L P G E A A Q K I D R I M E K F A E R Y C K C N P N S F T S	S A L R Q F L Q S F R L P G E A A Q K I D R F M L K F A E R Y I N D G N P N A F A N	D A L R V Y L Q A F R L P G E A A Q K I D R F M L K F A E R Y I N D G N P N A F A N	E A M R T F F L Q A F R L P G E A A Q K I D R F M L K F A E R Y Y Q G N P P E T L A N	D A L R T F F L Q S F R L P G E A A Q K I D R Y M L K F A E R Y V M G N P P N A F A N	D A L R T F F L Q S F R L P G E A A Q K I D R F M L K F A E R Y V T Q N P N A F A N	D A L R Q F L Q S F R L P G E A A Q K I D R Y M L K F A E R Y V T G N P N A F A N	D A M R V F L Q A F R L P G E A A Q K I D R Y M L K F A E R Y I S D N P S V F A N	D A L R R F L Q A F R L P G E S Q K I D R Y M L K F A E R F V H G N P P N A F A N	D A L R T F F L Q S F R L P G E A A Q K I D R M M E M F A Q R Y F D Q N P P A I F K Y	Q A L R Q F L W S F R L P G E A A Q K I D R M M E A F A T R Y C E C L C N H S V F Q S	V A I R H F A G F R L P G E S Q K I D R M M E T F A T R Y C L C N H S V F Q S	D A L R Q F L Q A F R L P G E A A Q K I D R F M L K F A N R Y M L C Y H N P G V F T S	D A L R M F L Q S F R L P G E A A Q K I D R F M L K F A D R Y I A G N Q T P F K N	E A I R F F L Q A F R L P G E G Q K I D R F M L K F A E R Y V H G N P P G A F A N	Q A L R Q F L W S F R L P G E A A Q K I D R M M E A F A T R Y C D C N A N V F Q S	Q A L R Q F L W S F R L P G E A A Q K I D R M M E C F A Q R Y C Q L N P N I F T N	D S L R H F L Q A F R L P G E A A Q K I D R F L L K F A E R Y I N G N A K T P F A	S A I R L F F L E K F R L P G E A A Q K I D R L M E K F A S R Y C E C L P G L F A S	D A L R L F F L Q S F R L P G E A A Q K I D R Y M L K F A E R Y V A G N Q T P F A N	E A I R H F L W S F R L P G E A A Q K I D R M M D S F A K R Y C A M N P G I F R T	D S L R L L L Q S F R L P G E A A Q K I D R Y V L K F A A R F M E C K T T P F K N	D S L R R F L Q S F R L P G E A A Q K I D R Y V L K F A A R F M E C K T T P F K N	K A L R S F L D G F F L P G E A A Q K I D S R I L E V F A A R Y H E A N P G A V A D	T A I R V L L E S F R L P G E S Q K I D H V L V L E A F S E R Y Y E Q S P D I L A N	Q A L R Q F L W S F R L P G E A A Q K I D R M V N A F A K R Y C A N N P G V F S S	D A L R T F F L Q S F R L P G E A A Q K I D R Y M L K F A D K Y M A N N K T P F I N	T A I R L F F V G T F R L P G E S Q K I D Q R V L E A F S E R Y Y E Q S P P H I L I N	S A L R K F L E G F R L P G E A A Q K I D R L M E K F A S R Y C N Q E I F A S S	S A L R K F L E G F R L P G E A A Q K I D R L M E K F A S R Y C E C L T N P G V F E S	Q A L R Q F L W S F R L P G E A A Q K I D R M M E C F A K R Y C E C L T N P G V F E S	D A M R T F F L Q A F R L P G E S Q K I D R F M L K F A E R Y V L G N P G V F T N	S A L R C F L E R F R L P G E A A Q K I D R L M E K F A S R Y C A N N P N L F T S S	S A L R Q F L E G F R L P G E A A Q K I D R L M E K F A S R Y C E C C N P N N F S S	V C L R L F F L L A F R I P G E A A Q K I D E R V M A A F A H R Y H S C C N P T C F C H	S A L R L F F L E G F R L P G E A A Q K I D R L M E K F A A R F C E E C N Q G Q F A S S	S A L R V F F L E G F R L P G E A A Q K I D R L M E K F A S R Y C E E C N Q G Q F A S S	A A L R L F F L E T F R L P G E S Q K I D V R V L E A F S E R Y Y E Q S A P N I L V N	A A L R H F L S G F W L P G E A A Q K I D R M M E K F A E R F C K D T D S F S N	K S L R Q F L W S F R L P G E A A Q K I D R M M E S F A A R Y C T C C N P G M F S T	D A M R T F F L Q S F R L P G E A A Q K I D R F M L K F A E R Y L D G N P N V F A N	G A L R R F F L W S F R L P G E S Q K I D R M M E S F A T R Y H E C N P N Q F R M	S A L R Q F F L Q C F R L P G E A A Q K I D R F M L K F A E K Y V V D N L G V F R N	D A M R D F F L Q A F R L P G E G Q K I D R F M L K F S E R Y M E E N E E S F A T	M A I R L Y F L E S F R L P G E A A Q K I D N R V M E S F G K H Y H A Q C P D L F K N	D A L R D F F L Q S F R L P G E S Q K I D R F M L K F A Q R Y V T Q N P N A F A S	K S L R Q F F L W S F R L P G E A A Q K I D R M M E S F A A R Y C T C C N P G M F S T	S A L R Q F F L Q C F R L P G E A A Q K I D R F M L K F A E R Y L D G N P N V F A N	D A M R D F F L Q A F R L P G E G Q K I D R F M L K F S E R Y M E E N E E S F A T	M A I R L Y F L E S F R L P G E A A Q K I D N R V M E S F G K H Y H A Q C P D L F K N	E A I R H F F L R M P G E A A Q K I D E R L M E I F G Q H F C E C C N H D I V H S	A A L R L F F L E K F R L P G E A A Q K I D D R L M E K F A S R Y L D C C N Q G I F A S S	T A I R L F F L E G F R L P G E A A Q K I D D R L M E K F A A R F C E T T N N G I F D S S	R Q F F L W S F R L P G E A A Q K I D D R M M E A F A S R Y C L C N P P R Q F Q N	D A L R K F F L Q A Q I K V Q G E A A Q R V E R L V E A F S Q R Y C L C N P P R Q F Q N	S A I L R Q F F L Q G F R L P G E A A Q K I D D R L M E K F A S R Y C E C C N P P N F A S S	E A I R T F F L E G F R L P G E S Q K I D D R F M L K F A E R Y V M G N P G L F A N	D A M R R F F L Q A F R L P G E A A Q K I D D R L M E K F A Q R Y C K D N P E Y F S N	E A L R K F F L E G F R L P G E A A Q K I D D R L M E K F A S R Y C T C C N P P N F A S S	UniRef90_UP10001FE26EC	UniRef90_A7S350	UniRef90_F6UE33	UniRef90_F2QP83	UniRef90_G1XV76	UniRef90_T2M2M8	UniRef90_W2S6U8	UniRef90_F2UID5	UniRef90_G8YGV4	UniRef90_S9W5F8	UniRef90_B3RPU5	UniRef90_S9PNE7	UniRef90_M5BJG5

QUERY	130	140	150	160
UniRef90_S8C9E7	T D T C Y V L S Y S V I M L N T D [L] H N P N V R D K M G [L] E R F V A M N R G I N			
UniRef90_N6TPQ0	A D T A Y I L A Y S V I M L N T D A H N P M V R E K M S A E D F I S N N R G I D			
UniRef90_D1LWZ6	S D T C Y V L S F A I I M L N T S L H N P S V K D K P S V D Q F I S M N R G I N			
UniRef90_Q4SN92	E D T C Y V L S F A I I M L N T S L H N P N V R D K P G V D R F I S M N R G I N			
UniRef90_E9FUV7	T D T C Y V L S F A I I M L N T S L H N P S V K E K P T L D K F I A M N R G I N			
UniRef90_I0Z9I1	P D T C Y V L S F A V I I L L N T D A H N P Q V K K P M S K V E F I S M N R G I N			
UniRef90_M7XU66	A D T A Y I L A F S V I L L N T D A H N P Q V K K P M S K V E F I K N N R G I D			
UniRef90_Q4T285	T D T C Y V L S F A V I M L N T S L H N P N V R D K P S V Q R F S A M N R G I D			
UniRef90_UP10003F4A5E6	A D T A Y I L A F S V I M L N T D A H N K N M Q K R M T K S E F V K N N R G I D			
UniRef90_R1E490	A D T A Y V L A Y S L I M L N T D A H S S Q I K K K M T Q Q E F V N M N R G I D			
UniRef90_G7PY22	T D T C Y V L S F A V I M L N T S L H N P V R D K P G E R F V A M N R G I D			
UniRef90_M2XYX3	A D T A Y V L A Y A V I M L N T D A H H P Q V K K H M S K E E F I K N N R G I D			
UniRef90_J3MM34	A D T A Y V L A Y A V I M L N T D A H N P M V W P K M S K S D F V R M N T V S D			
UniRef90_Q01AF8	A D T A Y V L A F S I I M L N T D A H N P Q V K N K M T K E G F I R N N R G I D			
UniRef90_C5KDT5	A D C Y I L S F S L I M L N T D [L] H S S Q V K N K M S F E D F K R N N R G I D			
UniRef90_K7U7E1	A D T A Y V L A Y S V I M L N T D A H H T M V K D K M S K S D F V R N N R G I D			
UniRef90_T1G2F2	T D T C F V L S F S I I M L N T S L H N P S V K E K M T V D R F I T M N R G I D			
UniRef90_D8QTL1	A D T A Y V L A Y S V I M L N T D A H N V M V K D K M S K A A F I K N N R G I D			
UniRef90_S8CX12	UniRef90_U7Q2E2	A D S A Y V L A Y S V I M L N T D A H N N M V K D K M T K A D F I R N N R G I D		
UniRef90_W4KE53	A D T A Y V L S Y S V I M L N T D L H S T N V V K R M T Q Q D F I R N N R G I D			
UniRef90_E3KS20	A E T A Y V L A F S I I L L N T D A H S P Q V K N R M T R K E E F I R N N R G I D			
UniRef90_E3QS13	A D T A Y V L A Y S V I M L N T D [L] H S S K I V R R M T K E D F I K N N R G I D			
UniRef90_Q0CIX2	A D T A Y V L A Y S V I M L N T D Q H S S K V R R M T K E D F I K N N R G I D			
UniRef90_G2XDD4	A D T A Y V L A Y S V I L L N T D [L] H S T K I A R R M S K E D F I K N N R G I D			
UniRef90_G7EA71	A D T A Y V L A Y S T I M L N T D A H N P Q V K N R M T L Q D F Y K N N A G L			
UniRef90_M5E7B8	A D T A Y K L A Y S V I M L N T D A H P Q V K H R M T L Q D F Y K N N A G L			
UniRef90_S3CX44	A D T A Y I L S Y S V I M L N T D L H S K N V V R M T P E D F I K N N R G I D			
UniRef90_A0A024JA82	A D T A Y V L A Y S V I L L N T D L H S P Q V K N R M T F D F I L R N N R G I D			
UniRef90_I2FVH0	UniRef90_T1ELT5	A D T A Y V F A Y S V I M L N T D A H N K Q V K H R M T L Q D F I K N N S G I D		
UniRef90_UP1000440904F	H D T C Y V L S F A I I M L N T C L H N P S V K D K P T V E R F I A M N R G I D			
UniRef90_M3B7Q5	A D T A Y V L A Y S V I M L N T D Q H S A Q V K K R M T V E D F I K N N R G I D			
UniRef90_H2TON6	T D T C Y I L S F A I I M L N T T L H N P N V K D K P N L Q R F I V S M N R G I D			
UniRef90_UP10003ACA01F	A D T A F I L S F S I I M L N T S L H N P N V R D R P F E D F I K N N R G I D			
UniRef90_T0QID2	A D T A F I L S F S I I M L N T Q D L H N P S V E K K M K K H Q F I G N N R G I D			
UniRef90_Q7SAX4	A D T P Y V L A Y S V I M L N T D [L] H S S K I V R R M T K E D F I K N N R G I D			
UniRef90_UP1000455DB3E	A D A A Y I L A Y S V I L L N T D A H S P Q V K N R M T K L D F R K N N R G I D			
UniRef90_S2JUI3	A E T A Y V L A Y S V I M L N T D L H S P H V K R R M T L E D F I K N N R G I D			
UniRef90_Q4RGG5	S D T C Y I L S F A I I M L N T S L H N P C V K D K P S V E Q F I S M N R G I D			
UniRef90_UP10003DED803	T D T C Y V L S F A I I M L N T S L H N P S V K D K P S V E Q F I S M N R G I D			
UniRef90_A8NXE0	N D A A Y V L G Y S V I M L N T D A H N P Q V K K R M T K T D F I V N M N R G I D			
UniRef90_U6P761	A D T A Y V L A Y S V I M L T T D L H S A Q V K S K M T K E D F I V N M N R G I D			
UniRef90_UP10004418362	A D A A Y V L A Y S T I V M L N T D Q H N P Q V K K R M T K A D F F I K N N R G I D			
UniRef90_E5S7R3	T D A C Y V V S F A I I M L N T S L H N P N V K E K V T L E Q F I V L R T R D V			
UniRef90_UP10004411D6D	A D A A Y V L S Y S V I L L N T D A H N P Q V K K R M T K T D F I K N N R G I D			
UniRef90_C1E9X0	A D S A Y V L S Y S I I M L N T D Q H N P Q V K R K M T L E Q F I R N N R R G T N			
UniRef90_V7D195	K D A A L V L S Y S V I M L N T D H H N V Q V K K M T E E D F F I R N N R R G T N			
UniRef90_F1L7K8	T D T C Y I L C F A I I V M L N T S L H N R N V V K N P L T E G F I S M Y R G I D			
UniRef90_D8PRN3	A N A A Y V F A Y S V I M L N T D A H N P Q V K K R M T K A D F F I K N N R G I D			
UniRef90_R0F3H1	K D A A F V L A Y S I I L L N T D Q H H S Q V K T R M T E E D F F I R N N R G I D			
UniRef90_UP10003594986	UniRef90_H9J557	A D T A Y V L A F S I I M L T T D L H S P Q V K S K M T K E Q Y I R M N R G I D		
UniRef90_W4YVZ3	A D T V Y V L S F A I I M L T T D L H S P Q V K N K M T K E Q Y I K L N S G I D			
UniRef90_C4Y7I3	T D T C Y V L S F A I I M L N T S L H N P N V K D K P T L E R F F H M N R G I D			
UniRef90_E5SR03	A D A A Y V L A Y S T I V M L N T D Q H S P Q V K N R M T V D N F V A N N A G I D			
UniRef90_E0VGS6	A D T A Y V L A Y S I I M L T T D L H S P Q V K S K M T K E Q Y I K L N R G I D			
UniRef90_F2UF98	E D T A F I L A F S I I M M L H T D L H N P S N V R K M T L N E F V V R N N R G I D			
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QUERY

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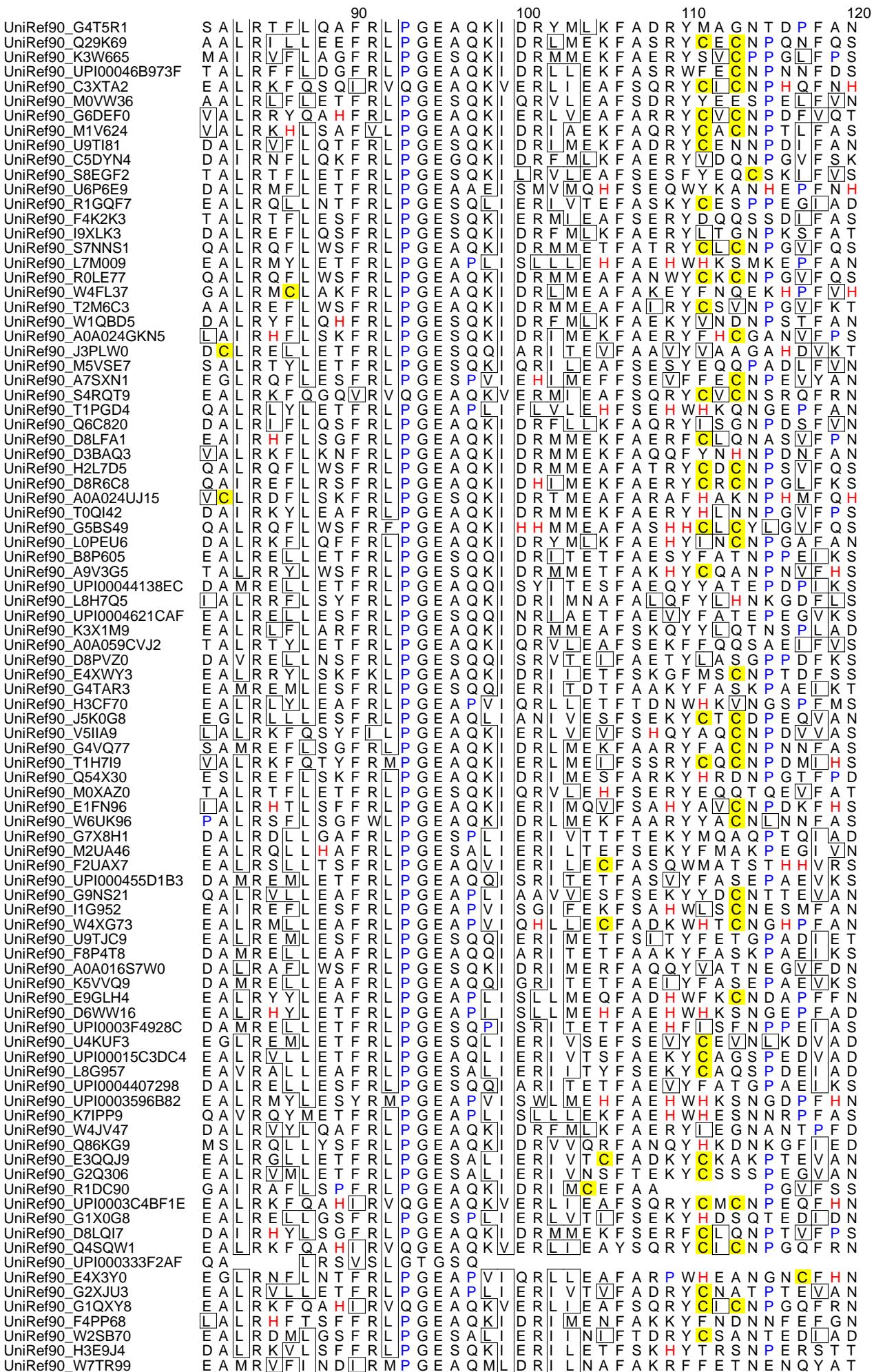
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 K I I I I K G T S M F N E K P K K G I G Y L E E A Q G I I N S D P K E V A R F F L K
 R Q Y R V G L N L F N K K P E K G I V R Y L V D R G F L D A C P R A V A R F L V
 R Q Y R V G L N L F N K K P E K G I T Y L M K K G F L D N T P Q A V A K F L I
 L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

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UniRef90_UPI00046B973F	V D E R L D K T A I G E Y L G N C Q D F N R D V L D C V V D E M D F A D L E L D
UniRef90_C3XTA2	S R R G L S R Q M I G E Y L G N H D E F S I Q V L H E F S R T F D F K E L N L D
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UniRef90_U9TI81	S T P G L S K A A I G E Y Y L G E G D P E A I K I M H A F V D R M D F M G L G F V
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UniRef90_S8EGF2	Y A V G L D K N L V G F F L S R R D E F S T Q V L R D F A K S F D F H D M N L L E
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UniRef90_19XLK3	R N E R L D K A A V G E F Y L G E G D A E N I A I M H A F V D L M D F G D R G F V
UniRef90_S7NNS1	K G E G L L N K T A I G T Y I G E R D P I N L Q V L Q A F V D C H E F A N L N L V
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UniRef90_Q6C820	E T D G L D K A K I G D Y Y L G G H E K E N V E I M Y A F V D H H D F T G M R Y V
UniRef90_D8LFA1	Q A D R L D K T E I G E F M G H M G G F C V K V L H A Y V D G I D F T D M E F D D
UniRef90_D3BAQ3	S H D D L S K Q S I G E Y Y I G D G D E F N I Q V L H A F V D E L D F S G L L D F D
UniRef90_H2L7D5	K Q E G L L N K T A I G N F Y L G E R E K M H I L E T L K A F V A L H E F Y D L N L V
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UniRef90_T0QI42	Y N S R L D K F Q I G E Y Y I L G K E A Q F C V K V L H E F V D Q M D F H H L N V D
UniRef90_G5BS49	K G E G L L N K T V P G D Y Y L D K R D E F N I K V L Q A F V K L H D F A D L N L I
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UniRef90_F8P4T8	N C T R L D K R L L G D Y Y L S S K P D N I E E L L K E F I I G L F N F H D K P V A
UniRef90_A0A016S7W0	U N I D G L K S T A I G E L L G S H D P F C I L E V L D Q F V L C H N F Q N M F I V
UniRef90_K5VVK9	U N I D G L S K T A I G E L L G S H D P F C I L E V L D Q F V L C H N F Q N M F I V
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UniRef90_UPI0003596B82	E N N R L D K K M I G E Y Y I S D K R N K E V L E A F V R S F N F E D T R V D
UniRef90_K7IPPI9	E N P T L D K K A I G E Y Y I S K K E N T I A T M Y T F V N M D L R N M P F V
UniRef90_W4JV47	H I N G L S K S M I G E Y Y I S K K E N T I A T M Y T F V N M D L R N M P F V
UniRef90_Q86KG9	E C P L L D K K S I G D Y Y L G D A E P F C I L V L E S L I S R F N F K D L D F D
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UniRef90_UPI000333F2AF	K G E G L N K T V I G D Y Y L G E R R D E F N I K V L Q A F V E L H E F A D L N L V
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170 180

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UniRef90_S7NNS1	A G S D L P E D Q L R	
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UniRef90_M5VSE7	G G K D L P R E Y L L S E L F Q S S S N N A I T L	
UniRef90_A7SXN1	G G N D F P A T M L E E I F T C K N E E I V M P A E	
UniRef90_S4RQT9	D G K D I P R E M L L S I Y D R I S K K E E L K T N E D	
UniRef90_T1PGD4	G G I D Y D Q D L L A T I Y N A I K N D E I I M P A E E	
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UniRef90_D8LFA1	Q G K S L P D E F L L G G V F D R I E R S P I S L K E D	
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UniRef90_T0QI42	N G E D L P A E Y L G G I Y D R I K S L P S I K E D	
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 A N P W L D K K M I G E Y I S D R R H P E I L D N F V R T T F K F E G L R L D
 E N P R L N K N K I A E F I V N R K N R P V L D A F V K S F D F R K L R I D
 S R K G V S K Q M I G E Y I G N Q N A F F N M A A L D F F I E E L D F F A A L D V D
 N N S R M N K K T I G L L C D P K Q G S L L R K F M N L F D F K G L R V D
 T C Q R L D K R V L G E Y I G A L G N E E I L Q Q A F L G L F A Y E G K V I S
 G T S R I D K Q K L G S K G N E P I L M D S F D F E N K R V D
 Y L E G F K R C D V A R H L G K N N E F S Q L V A S E Y L I S S F D F T G L S L D
 N L D G F K K S D V A R H L G K N N D F S K M V A E E Y L R F F D F T G M S L D
 E N P R V D K K K T L G D F I G T R K N A E Y L K A F V G S F A M K N L R I D
 G T T R V S K S K I L G E F F I A K K Q N E K L L A F I N L F D F A G K S V I
 K G E G L H K S A I G E Y I G E K N E F N L K V L R A F T F M H Q F S D I L L V
 E N P R L D K K R I A D Y I C S R K N A A V L D A F V R S F P F G N T R L D
 N L E G F K R S D V A R H L G K N N E F S R L V A E E Y L R Y F D F T G M T L D
 H L D H F K R S D V A K H L G K N N E F S Q L V A E E Y L K F F D F T G M T l D
 H L D G F K R T D V A P Y L G K N N E F S Q T V A E E Y L K F F D F T G M D l D
 T Q S Q L S K I Q I G E Y I L G G E K P L N Q K V M H E Y I N R Q L A N M D F V
 E N P R L D K K A M I G E Y V A K K S N H K V L E A F V K S F N F E D L R V D
 A R K G L S K Q M I G E Y I L G N Q K Q F N M E V L R C F A E I D L T N M Q I D
 A Q E G L L S K T R I L G E D A P F N K K V L H A L V D S L D F R G K E I D
 G T T R V D K K V L G E F F I A K K G N E A I L D A F L D L F D F Q G L R V D
 R N D K L D K T Q M G E E A L G R E P D F W V R I L H H Y A D A L D L S G L P F D
 G N P K L D K K Q I G E Y I S N S K K N N K V L E A Y Q K S F V F D D T R V D
 H L D G F Q S D V A A Y I L R K N N D F S R A V A E E Y L S S F Q F G G Q S L D
 R N D R L D K A T L G E Y I L G E G D A E N I I A I M H A F V D C M D F K K R R F V
 E N P R L D K K M I G E Y I L A N R K N T D I L V A F V R H F N F R G T Q I D
 N K S G L L N K K V L G E Y I L A K S S N K E K I L E A F M E L F D F E G V G I V
 G T S R I S K K T L G E Y I S N R N N E K I L E A F M E L F D F E G V G I V
 N L D G F R K C D V A R H L S K N N D F S R M V A E E Y L G Y F N F T G Q T l D
 E N P D L D K K M I G E Y I C N R H C G D T S V L G A F A D S F E F G G L R I E
 Q E E R L D S T Q V G E F I L G D N D K F N K E V M Y A Y V D Q H D F S G K D F V
 K G E G L N K K T A I G T Y I L G E R D P V N Q V L Q A F V D C H E F A N L N L V
 S T N R L S K R V L G E Y I L T K A S S N T E I L D A F M V A F D F K G K R I D
 N K S G L L N K K V L G E Y I L A K S S N K E K I L E A F M E L F D F E G V G I V
 G T S R I S K K T L G E Y I S N R N N E K I L E A F M E L F D F E G V G I V
 N L D G F R K C D V A R H L S K N N D F S R M V A E E Y L G Y F N F T G Q T l D
 H L A D L D K G Q L G E Y I L G H E D F A C C A V M Y A Y I D G E Q F Q G Y S I D
 H L D G F K R S D V A K H L G K N N D F S K I V A E E Y L K F F D F T G L T l D
 G T S H V S K S V L G D F L S K K G N D A I L E A F M D Q F D F S G K R I D
 E K S G V D K K M L G E L L A K P A N A G L L K Q V L E E L F E F S G L R V D
 E R K G L S R Q M I G E F I L G S R Q Q F N K D V L D C V L D E M D F S G K M D l D
 Q R K G L S R Q M I G E F I L G N K K P F N R D V L D C V L D E M D F S G K M E l D
 E T E G L L D K V S L G I Y I L S E R E D F N I A V H Y T E L F N F S G F T l D
 H T P G L D M K I L G E F F I L A K R Q D F N G E I I R K E F M H S F K F A G M P V V
 D N N R L N K K T I G E F F I A A P E K V G L L L A K F I I G M F D F T G L R I D
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 G T A R V S K S K I S G E F F I L S K K G N E S V L E A F M N T Y N F K G K R I D
 N L E G F K H C D V A R Q L G K N N E F S K S V A E E Y L S S F D F S G L T l D
 Q G G G L L S K Q T I G E Y I I G S N E P F N V Q V L E E Y V K L H D I S N L F l D
 T R K G I L S R Q V I L G E F F I L G N G S D R S K K I L K A V C N Q M D L S D D l D
 S K S G L L N K K V L G E F F I L A K P S N S E L F G H F I D L F D F H D I R V D
 E N S G L L D K K M I G E Y I I S K K K N V E S K I L E V F V K S F D F A G L T l D
 R V G Q G L L N K R V I L G D F L G E R Q D F H E R V L R E Y A G L F R F H A L P V
 N T N Y V N K K L L G I Y I L S K Q E N T H I L D C F V N T F D F H G K R I E
 N S A R L N K K V L G E Y I L A K P S N M D L L K E F M H L F K F A G L R V D
 S N S N L L D P K K V G E Y I L V Q Q N S N F N S V L F K Y V E L F D F K D M N I D
 S L P G L L N K N A V G A Y I L G D T M D F H R D V L V D F V K S F N F E G E N I V
 N T P T L L D P A S I G Q I I G G N T P E S V Q I L H S F M D E F D F K G L T F E
 G T S R I S K K V L G E Y I I S K K S N E P P L L D E F I S L D F N G K S V H
 T R K G L S K Q M I G E Y I I G N Q N P F N Q V L E Y F A Q E L D S G L Q V D
 R L D G F R K S E V A A Y I L Q K N N D F S K D V A E K Y L S F F Q F K D K S l D
 G T T R I S K K E L G D F L S H R N N E P L L N A F I I G L Q D F K G K N V V
 N N S R M N K K T I G L L C D P K R E L L K K F I I N L F D F K D L R V D
 E N G L L N K K T I G E Y I I L A N P A K I I S L L K K F I I N L F D F K D L R V D
 K G E G L L N K T A I G D Y I L G E K N D F N E D V L K A F V A L H E F A D L N l V
 S D D R L L D K T A V G D Y M G E I I D D F N K N V M Y A F V D C H E F D F N G L D F V
 N T E D F S K L L M G E F M G E Q V N S D I L H A F T E L Q S F A G L P F D
 Q R K G L S R Q M I G E F I L G N K K Q F N R D V L D C V V D E M D F S S M E l D
 H L E G F R K S E V A V H L Q K N N D F S R A V A E E Y L S S F F Q F G G Q S l D
 N L E G F R K A D V S R H L S K N N D F S Q T I I A E E Y L S S F F N F A G L N l D
 L N N G L L N K K T I G L L C D P K K T A L L K E F I I D L F D F K S L R V D
 S T Q L L D K K A L G E Y I I G R P E N L E V Q V Y M R Q F D F K N K R M D
 E T D N L L D K E S I L G V Y I I S E R E D F N I S V L H H Y T D L F N F S G F T l D
 K S P S A S H S P F C P L P R D P I N L Q V L Q A F V D C H E F A N L N l V
 N D E R L L D K A G S T K R S C T P I L T I L T S Q T W T L Y L S G N F S
 T N Y Q L L D K N K L G E Y I I S N R K N V E V L E P L R A F V M S F A F A N T R I D
 N N T R M N K K T I G L L C D P K R I I P L L K C F I I E L F D F K D L R V D
 D N E Q I L D K I A L G E F F I L G E G D Q E N I A I M H A F V D L M D F T K

90 100 110 120

UniRef90_D3BMV3 UniRef90_W9YNK2 UniRef90_K9G292 UniRef90_U7Q0T7 UniRef90_B8C2A3 UniRef90_I2G5Y4 UniRef90_I1G163 UniRef90_L8GXZ9 UniRef90_C7Z901 UniRef90_G4MSP5 UniRef90_M5BU11 UniRef90_H3EDA3 UniRef90_E5SY31 UniRef90_A0A024JH23 UniRef90_H2ZA12 UniRef90_E5SD40 UniRef90_E9H1A2 UniRef90_J7S8J1 UniRef90_M5FP93 UniRef90_G2YK0 UniRef90_E7EZ7 UniRef90_UPI0004573775 UniRef90_T2M8S2 UniRef90_B6Q4Q7 UniRef90_T1EHY3 UniRef90_A8P3A3 UniRef90_V9K8D5 UniRef90_UPI000443145E UniRef90_V9KD93 UniRef90_X6ND86 UniRef90_K1PI78 UniRef90_T1EEU4 UniRef90_F0VK14 UniRef90_M2MZK6 UniRef90_B7G1F2 UniRef90_R7UJM2 UniRef90_F6U6G3 UniRef90_C1GIX9 UniRef90_U6I3Q2 UniRef90_W5KDX4 UniRef90_UPI00034F9027 UniRef90_UPI00029DB7F2 UniRef90_UPI0003290959 UniRef90_S9PUK2 UniRef90_G3AXP4 UniRef90_J3K2I2 UniRef90_W5KCQ5 UniRef90_10YK3 UniRef90_UPI00034F2D13 UniRef90_T4ZY17 UniRef90_W6MGX8 UniRef90_UPI0003EC4BFE UniRef90_Q4SBR3 UniRef90_Q556T7 UniRef90_C5K824 UniRef90_Q6CM60 UniRef90_T1JZW9 UniRef90_A3M001 UniRef90_N1JDK0 UniRef90_F7CF33 UniRef90_H3F6U4 UniRef90_E4YB4 UniRef90_B9WDB0 UniRef90_B0W2G3 UniRef90_UPI00035A0FA1 UniRef90_L1IRL8 UniRef90_L0P958 UniRef90_C4Y877 UniRef90_F0ZHI8 UniRef90_K3WAR7 UniRef90_A2F824 UniRef90_C1GUW0 UniRef90_K1R3P6 UniRef90_F6TUY9 UniRef90_C5FR43 UniRef90_H2AZD9 UniRef90_G8JND4 UniRef90_U6DRS6 UniRef90_B4IG6 UniRef90_UPI00021A4856 UniRef90_D2VF12 UniRef90_UPI00033467F7 UniRef90_I3MMY8 UniRef90_H2MBW6 UniRef90_H0GWZ4 UniRef90_I1BP97 UniRef90_F1A579 UniRef90_UPI0003C48D93 UniRef90_T1EMI5 UniRef90_UPI00026599C9 UniRef90_G0VH1 UniRef90_Q0UQA3	MA [L] R Q [L] Y C F R L P G E A Q K I D R I V Q R F A N Q F Y R D N [G] I F E D E A [L] R E M L G S F R L P G E S A L I E R I V S T F T E N Y C S T S S E E I A D D E A [L] R E L L S S F R L P G E S P L I E R I V T T F S E H Y V E K K P D G I A D E A [L] R M M L E A F R L P G E A Q K I D R I V T A F T E K Y C A G E P E D V A D D A [I] R Y Y L S G F R L P G E A Q K I D R I V M E V F A A R Y T D Q N P T T F P T E A [L] R E M L E S F F R L P G E S Q Q I E R I V T Q T F A A T Y F A A K P E G I A T D A [I] R A F L G S F F H L P G E A Q K I D R I V M E F A E R Y L F C N P G A L S D Q A [L] R H F L A K F K M A G E A Q I V D R F M T H F A E R F C A C C P D V F K F E A [L] R Q L L E S F R L P G E A P L I S T I V E S F A D K Y C S N D T E E V A D E A [L] R Q M L E T F R L P G E S A L I E R I V Q F C K K Y Y D K T N Q D V A D D A M R E L L E S F R L P G E S Q P I A R I T E T F A K Q F S C D P P G I K S [VAL] R L F L E T F R L P G E A P L I S M V M Q H S E A W F K A N D E P F N H E A [L] R L F L E T F R L P G E A P L I S M V M Q H S E A W F K A N D E P F N H H A [L] R R F L H G F H L P G E S Q K I E R I L E A F A S R Y C Q C N P P T T K Q E A M R E L F A S F R L P G E S Q Q I E R I M E K F A E H Y V E E N T K D V A D E S L R L Y L E T F R L P G E A P V I Q R L I E A F S A Y W S E C N H H P F M N S E S L R E F L E S F R L P G E A A E I S T I I E Y Y A D H W H K S N G T P F A S [VAL] R R F Q T Y F R M P G E A Q K I E R I L E A F S R Y S E S Q D E P Q P D E A [I] R L L T K F R L P G E S Q Q I E R I I E A F S S R Y S E S Q D E P Q P D E A [L] R D I L E T F R L P G E A Q P I S R V T E A F A K E Y R A K G K T E I K S E A [L] R E L L E T F R L P G E A S A L I E R I I S T F A E N Y C S G T P E G I A D E A [L] R E L L E T F R L P G E A S A L I E R I I S T F A E N Y C S G T P E G I A D R A [L] R N F L K A F P I M G E T T Q E R E R V L V H F S K R F C H C N P E T L T S Q A [L] R A F L K E F A L M G E T T Q E R E R V L V H F S H R Y H Q C N P G K I S A E A [L] R N F L E S F R L P G E S P V I S L I L E E F S S V Y F N N N P D P Y K N D E A [L] R E L L G S F R L P G E S P L I E R I V T F F S E I L Y M K A Q P E G I A D Q A [L] R Q Y L W S F M L P G E S Q K I D R I M E C H C N P H V F T N H D A [L] R M F L E A F R L P G E A A E I S M V M Q H F A D H W Y [A] N G E P F N H Q S L R N F L K A F A L M G E T T Q E R E R V L V H F S N R Y Y Q C N Q G M I P S S Q S L R Y F F K A F S L M G E T T Q E R E R V L V H F S N R Y Y H C N P N T V F S S Q A [L] R N F L K A F P I T G E T T Q E R E R V L V N H F S Q R F H C N P H T S T S D A [L] R V L C A S F F L P G E G Q K I D R I L Q R F A D R Y C E D N P D V F P N E A [L] R Q Y L E A F R L P G E A P V I S Y I L E H F S D H W H K S N A E P F A N [VAL] R K F Q S Y F R M P G E A Q K I E R I L M E A F A S Q Y C H C N P D I F H R A A [L] K T F L Q L F R L P G E A Q K I D R I M M E K F A E K F F L D N S A P Y A S E A [L] R Q M L N T F R L P G E S A L I E R I I V T V F S E K Y C A T Q S E Y V A N E A [L] R L F L S G F R L P G E A Q K I D R I I M E K F A E K F T S Q N P D L F P S E A [L] R M Y L E T F R L P G E A P V I S Y I L E H F A D H W H K T N G E P F A N R A [I] R H F L Q A F V L T G E T T Q E R E R V I L L C H F S E R Y H R C N P K A F S S D A [L] R Q F L Q S F R L P G E S Q K I D R F F M L K F A E R Y L T G N P N A F A T E A [L] R A Y L E A F R I P G E A P L I Q H L M E S F A E Q W Y E A N D A P F A N C S A R R S R G Y F K A R G V I E K A V R I L Q V F S Q R Y C M C N P D Q F H N Q A [L] R L Y L E T F R L P G E A P L I F L V M E K F A E R W H S T N G C P F A N S A [L] R M F L E G F R L P G E A Q K I D R I L M E K F A A R Y L E C N Q G Q F A S Q A [L] R Q F L W S F R L P G D L I S L A S T P P Y S K H F R S G G D A L S R P E A [L] R M L L Q S F R L P G E S Q L I E R I V V E A F A H Y Y V E A N P G V V A S E A [I] R L L K T F R L P G E A Q Q I E R I V V E T F S A R Y A E C Q E E K Q P D D A [L] R H V L G S F R L P G E S P L I Q R I V T V F A E K Y L A G K P K E A A D Q A [L] R S F L L E F A L M G E T T Q E R E R V V L A H F S R R Y L L Q C N P M L L S A A [L] R L L G N F R L P G E A Q K I D R I I M E K F A E R Y C R D N P G A F K T Q S L R I F F K A F S L I G E T T Q E R E R V V L V H F S N R Y F L C N P N S I S S E A [L] R V L L E T F R L P G E A P L I A S I V D S F A D K Y C S G S P D E V A N E A [L] R V L L K S F R L P G E S Q Q I E R I V V E T F S E R Y V S C Q T E V V P D D A [L] R K F Q A Q I K V Q G E A Q R V I E R L V E A F S Q R Y C V C N P R Q F Q N E A [L] R K F Q A H I R V Q G E A Q K V I E R L V E A F S Q R Y C M C N P D Q F H N G A [L] R Y Y L S H F R L V G E A Q K V D R L M E V F S K K Y Y D D N D N I V V N E A [L] R L M L A T F R L P G E A Q E I E R I V V E S F S L A Y F G A Q Q R I L M H S E A [I] R A L L T K F R L P G E S Q Q I E R I V V E Q F S A K Y V E D Q H Y N Q P D E A [L] R L Y L E S F R L P G E S Q Q I E R I V V E L F E A Q R Y V D C Q P E L V D G E A [L] R E L L K A F R L P G E S A L I E R I I I T S F S E H Y C A G S T D G I A N R A [L] R T F L K T F P I M G E T T Q E R E R V V L T H F S R R Y C Q C N Q G E S P S D A [L] R M F L W S F R L P G E S Q K I I E R M M A K F A D H F H T S S T H A F D C E A [L] R K F Q S S V R I Q G E A Q R V I E R L V E A F S Q R Y V E S N P E L T N N E A [L] R V L L K T F R L P G E S Q Q I E R V V E R F A E R Y V E C Q A Q G R I N Q A [L] R L Y L E T F R L P G E A P L I F L V M E H F A D H W H V I L H F L E Q A [VAL] R K F L S Q F S I F G E T T Q E R E R V V L A H F S Q R F M E C N P G S F N S D A [L] R L F L E T F R L P G E S Q Q I E R I I T E A F A R T Y Y E Q D R S V F F S E A [L] R E L L T F F R L P G E S Q Q I E R I I I K F A N K Y Y E T N S I E I T E A [L] R L L K A F R L P G E S Q Q I E R I I V E L F A D D Y V E C I S D E S A D E S L R N I L F G F L L H F G E N Q C D K I I E K F A E K Y F N D N S K I F S N A A [L] R M F L A S F R L P G E A Q K I D R I L N T F S L Q V Y E Q C R D R F V S Q A [F] R S F L S K F L I P G E S Q M D R I M E Q F G S K Y F N D N P Q M F S C E A [L] R D L L G S F R L P G E A P L I T R I L T F F S D K Y I R V Q P A G I A D M A L R K F Q S H F R L P G E A Q K I E R I I M E A F A N R Y C T C N P D Q I K N Q A [L] R G F L Q A L V L S G E T T Q E R E R I I L Y Q F S K R Y H H C N P G A F S S E A [L] R E L L G S L R L P G E A P L I A R I I V T V F S E K Y L D A H P E E I A D E A [V] R I L L T K F R L P G E S Q Q I E R I I I E A F S L S Y V E S Q D Y V Q P D E A [I] R I L L T K F R L P G E A Q Q I E R V V E S F S A K Y V D S Q D E V V Q P D Q A [L] R Q F L W S F R L P G E A Q Q I E R I I M M E A F A S R Y C L C N P G V F Q S Q A [L] R Q F L W S F R L P G E A Q Q I E R I I M M E T F A Q R Y C Q L N P D I F T N S A A [L] R I L L A S F R L P G E S Q Q I E R I I M E K F A G R Y C E T N P D I F A S K A F R N Y L N T F R L P G E G Q Q I D R I V V Q K F A E K Y F K D N S H V F A N E A [L] R K F Q A H I R V Q G E A Q K V E R I I L I E A F S R R F H H C N P E Q F H N R A [L] R G F L Q A L V L S G E T T Q E R E R V V L Y Q F S R R F H H C N P G A F P S Q A [L] R G F L R Q F A L M G E T T Q E R E R V V L S H F S R R Y M V C N P G V M P S E A [I] R I L L T K F R L P G E S Q Q I E R I I I E A F S A R Y S A D Q N N K Q P D E A [L] R M V L E T F R L P G E A Q Q I E R V V T D T F A E T F F E T G A P E I D N G A [L] R Y F L S H F R L P G E A Q K I D R I M E S F S R K Y F E D N K M E I L D Q A [L] R Q F L W S F R L P G E A Q Q I E R I I M M E T F A T R Y C L C N P G V F Q S K A R Q F L W S F R L P G E A Q Q I E R I I M M E T F A T R Y C E C N P G V F Q S S E A [L] R M Y L E S F R L P G E A P L I S L V L E Q F A E H W H T S N N Q P F A S D E A [I] R I L L T K F R L P G E S Q Q I E R I I I E A F S T R Y V E S Q N Y D P T D Q A [L] R Q U A 3 T R K I D R F M L K F A E R Y I T G N P N A Y A N
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P D A V Y I L A F A I I L L N T D V H S P V I K A T L Q K F I U K S L S R I N
K D A A F V L S Y A I I I M L N T E L Y N P N V Q K R M T Y E D F A K N L R G V N
K D A A L Y I L T Y A I I I M L N T E L Y N P N V Q K R M T C A G F A K N L R G V N
K D A V Y I L T Y A V I I M L N T D Q H N P A I D R K M T I K S F Q R M N S G V C
A D A A F I L A F S I I I M L N T D L H N P A I D R K M T I K S F Q R M N S G V C
E D A V F F I L S Y S V I I M L N T D Q H N P Q N K R M T V D Y R K N R G V N
E D A V F F I L S Y S V I I M L H T S L H N P S V K D K P S I E T F I S M N R G I D
S E T C Y M L A F A T I M L N T D A H N P Q V R D K M S K T A F I L A N N R K L T
K D A V Y I L T Y A I I I M L N T D Q H N P N L D K R M T C E N F S R N L R G T N
E D A V Y V L S Y A I I I M L N T D Q H N P N L D K R M T C E N F S R N L R G V N
E D A V F V L S Y S V I I M L N T D L H N P Q N K R M T I V D Y Q K N L K G V N
V D A A F T L S Y A V I I M L N T D Q H N P R N Q P S M T V E C F R R N L S G T N
R D T V F V L A F A V I I M L N T D L H S P N V K P C M K L E D F V K N L Q G V D
K D A A F I L G Y A V I I M L N V D L H S P K V K N Q M T I D Q F K R N L R K T N
L D A A F T L S Y A I I I M L N T D Q H N P N V K P C M K L E D F V K N L K G C N
T D A A F T L A Y A V I I M L N V D L H S P Q A K R Q M S L E Q F V K N L N G V N
P D T V F I L A F A V I I M L N T D L H T P S I D K R M K L E D F V K N L R G I D
A D S V F F L L S Y S V I I M L N T D L H N P Q V K E H M S F E D Y S S N L R G G Y
D D A A F V L A Y S V I I M L N T D L H N P Q N K K R M T L E E Y G R N L R G V N
K D S V Y V L T Y A I I I M L N T D Q H N P N M K K R M E L E N F A R N L R G V N
E D G A H T L T C A L M L L N T D L H G H N I G K K M S C Q Q F I S N L D G L D
E D G I H T L T C A L M L L N T D L H G H N I G K R M S C S E F I G N L E G L N
T D A A F T M A Y A V I I M L N V D Q H N P N V K N Q M T I D D F K R N L R K T N
K D A L F V L I Y G I I M L N T D L H N P V N K R M T C V D D F K A R N L R G V N
S E V C F V L S F A L I I M L N T S L H N A V K D K L S S E K F S K M V R G L A
V D A A F T L A Y A V I I M L N T D Q H N P Q V R K N Q R P M Q F K R N L S G T N
Q D G I H C L T C A L M L L N T D L H G H N I G K K M S C Q Q F I T N L D G L N
A D G V H C L T C A L M L L N T D L H R H V N I G K K M S C Q Q F I T N L Q G V N
Q D G V H T L T C A L M L L N T D L H G Q Q N L G K S M S S Q E F I M N L E G M N
A D I A Y I L A Y S C I L L H V N V H S P K V K K K M T K E E F V L Q T K G A T
V D A A F T L T Y A I I I M L N V D Q H N H N A K K Q M T V A E F K K N L T K C
P D T V F L L A F A T I I M L N T D L H N K N S I I D R K M K L E D F I K N L R G I D
A D C C Y V L S F S L I I M L H T D A H S R E I K Q R M S K D A F V R N N R G I D
T D A L F I L T Y A I I I M L N T D Q Y N P N L Q N R M T V Q D F S K N L R G V N
A D T A F F L L A F S V I I M L N T D L H N P S I K R R M T V D S F V R N N S G I Q
U h i R f o R T U J M Z
A D A A F T L A Y A V I I M L N V D Q H N T A K K Q M T V H E F K K N L T K V N
A D S V H T L T C A L M L L N T D L H G Q Q N I G K S M S C Q Q F I T N L D G M R
A D A A Y V L A Y S V I I M L N T D L H S S K K M K R R M T K Q D F I N N N R G I D
V D A A F T L A Y A L L M L N T D Q H N P I S R R Q M T C A D F K R N L K G M N D
Q D G V H T L T C A L M L L N T D L H G Q Q N L G K S M S S Q E F I M N L E G M N D
A D A A F R L A Y A V I I M L N M D Q H N H N A K K P M T V E D F V R N L R G C N
A D T A Y V L A Y S V I I M L T T D L H S P Q R W Q L V V Q L F
A D T C Y V L S F S I I I M L N T S L H N P N V R D R P P F E R F V S M N R G I D
K D A A F V L S Y S I I I M L N T D Q H N P N I Q A R M T L D D F C R N V R G V N
S D S V F V L S F S I I I L M L N T D L H N P Q V K K H M T L E A Y K K N L R G Q Y
S D S L F V L T Y A I I I M L N T D L H N P N V Q N R M T L E G F T K N L L G G V N
E D S V H T L T C A L M L L N T D L H G Q N I G K R M S C T Q F I G N L E G L N
A D G A Y L L A F A L I I M L N T D A H N P Q A D K K L A L D D F V N M C Q V Q N
V D A A F T L A Y A L L M L N T D Q H N P I S R R Q M T C A D F K R N L K G M N D
T D A A F R L A Y A V I I M L N M D Q H N H N A K K P M T V E D F V R N L R G C N
A D T A Y V L A Y S V I I M L T T D L H S P Q R W Q L V V Q L F
A D T C Y V L S F S I I I M L N T S L H N P N V R D R P P F E R F V S M N R G I D
K D S V F F L L A F A T I I M L A T D L H S S S I I K N H M S K Q Q W L K M N S K N N
S D T V F F I L S Y S L I I M L N T D L H N P M V K N K M S L D E F K R N N R G I D
A D S V F V L S Y S V I I I M L N T D D F Y N P Q V K K H M T F E D Y T L N L K G C N
E D A A F S L A Y A V I I M L N V E H H N A N A K K Q M T C D E F I N M L R Q V N
Q D M M V F V L S Y S V I I M L N T D L H N P Q V K Q Q M V L D D Y R R N L L R G V Y
S D A V F V L T Y A I I I M L N T D S Y N P N L K A R M T L D Q F S N N L L R G V N
E D G I H T L T C A L M L L N T D L H G H N I G K K M S C Q Q F I A N L D R L N
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P D T A H V L S Y S C I M L N T L L H N P A V K D K P S L E R F V A M N K E S V
P D S I F V L A F A I I I M L N T D A H S P S M R K R M S E E D F V V N N L R G I D
P D K V F I L S Y S I I I M L N T D L H N P Q V K K Q M A L D E Y R R N L L R G V
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U n i R f o U P I 0 0 0 3 5 A 0 F A 1
E D A A C H T L T C A I M L L H S D L H S R N V R R R M T C Q E F I E N L S G G L N
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A D A A F V L A Y S I I T M L N V D L H N T Q V K K R M T I E E Y T K N M R N L
U n i R f o U P I 0 0 0 3 4 F 2 D 1 3
R D A V F V L S Y S I I I M L N T D L H N P K K V K Q Q M D L I E A Y K R N L K G V Y
A E S V Y L L S Y S I I I L L S T D L H N P S I T S K T M K S D W I K M N S K S N
A D V V A Y L L S F S I I I M L N T D L H N P N I R K K M K L E D F I K N N K N Y G
A E T V Y V L A F S A L M L H T D A H H P T L K K H M T L P E F I V A N N R G I D
K D S L F V L T Y A I I I M L N T N L Y N R N V K P Q M S F E G F V K N L R G V
F D T I F L M A F A I I I M L N T D S H N S S I K R K M K V E D F I R N L L R A I
A D A V H T L T C A I M L N T D L H G Q N I G K S M T C Q E F I T N L N G L K
U n i R f o U P I 0 0 0 3 4 F 2 D 1 3
K D S L F V L T Y A I I I M L N T D M Y N P N I Q N K M T Y E G F A K N L R G V
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U n i R f o U 6 U D R S 6
T D T C Y V L S F A I I I M L N T S L H N P S V S T L I C L D T R I
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P D T I F I L A F A I I I M L N T D M Y S P N I I D R K M M L E D F I F I R N L R G
A D S V H T L T C A I M L N T D L H G Q N I I G K S M S C Q D F V T N L L H G L Q
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A D S V F V L S Y S I I I M L N T D F H N P Q V K E H M S F D D Y S K N L L R G G C Y
I E A A Q V L A Y S I I I M L N T D Q H N P Q V R H Q M S F V D Q Y I R N L S G V N
Q D S V F V L S F A T I I M L A T D L H S V S I I K N H M S K Q Q W L K M N S K S N
T D T C Y V L S F S I I I M L N T S L H N P N V R D K P P F E R F V V S M N R G I D
U n i R f o U 1 E M I 5
A D T A Y V L A Y S I I I M L T T D L H S S Q V R H K M T K A Q Y I R M N R G I N
A D A T F T L A Y A I I I M L N V D Q H N P Q V R V K K Q M K E E D F I K N L K G V
S D S V F V L S Y S I I I M L N T D L H N P Q V K D H M S F A D Y S G N L R G G C C
A D T A Y V L S Y S V I I M L N V D Q H N S K K M K P R M T P E D F I K N N R G I N

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N G K D L P [] D Y I E D L Y D R I C S D E K M N	S G K D F P P E [] L Q D I Y D A I K E N E I L P D E	G G G D F A E E F L E D I Y D S I K N N E I L P D E E	G G N D F A T E Y Y L Q D I F D S I Q S N E I L P E E	D G G D F P D E M L A D I F N R I K N N P I S L K E D E	G G D D F D [] D L T G A I Y D S I R K R E V M P E E	N G K D [] P S E L T E F Y E N V K K E E F K V P D	V Q E E I P S A F L E E Y D K I V K N E K M E V D	N G K N F A P E Y Y L Q G I Y E S I K S N E I L P D E	G G K D F A P E Y Y L Q A I F E A I K F N E I L P E E	D G T D F D P E Y Y L Q A I Y D S I R K R E V M P E E	G G Q D F D P D M L E Q V Y N A I K T E E V M P A A D	E G R S L N R T F L G E I Y A R I K N Q Q L R T G A D	N G Q D F D P Q Y L E N I Y Y T I K Q R E I I P E E	G G Q D F D P H M L E E I Y T T I R N D E V L P D E E	G G Q D F D Q H M L E E I Y T T I R N D E V L P D E E	G G D N F D R T M L E K I Y Q A V R T E E V M P E E	E G A N V D Q E [] L V G I Y E R V K A A E F K P G A D	N S E D F P H W Y L D K I Y C S I R D K E I V M P E E	E G E N F T P E F I S N I Y D S I K K Q E I I M P E E	G G Q D F D P A Q Y L Q D I Y E S I K S N E I L P D E	D G K D F D P K E L L K V L Y N S S K N E K L E W A I E	D G K D F D P K D L L K V L Y S S S K N E K L Q W	G G E D F P A E L L E E I F E N I R T N E V M P S E	G G K D F D Q D E L Q S I Y D S I K Q N E I L P D E	S M H E [] P A D L I E T L Y K S I K R E P L K L P S	G G Q D F D P A M L D E M Y N A I R N E E I V M P A E	E G K D F P K E [] L K P L Y N S S K N E K L E W A	E G S D F P R D Q L K A L Y N S S K N E K L E W A V D	D G K D F D P S K D L K T L Y H S K N E K L E W A I D	K D E T [] S A E L L S H Y D N V A K E M K L P	G G A E F D Q D M L E E I Y N A I K S D E I V M P A E	D G E D F D V G D L T G I Y G R I K D S E F I P G A D	N G R D L E T S Y L E T L Y D R I V Q E E W R L E D D	D G K D F D P A Y L Q E I Y D A I K A H E I V L P E E	D G G D L P K E F L E E I F D R I K E Q P F S L K E D	G G E D F E Q E M L D E M Y Q A V K S D E I V M P A E	D G G N F P K E Q L K T L Y M S I R N E K L E W A M D	D N S D [] P E E Y L S G I Y D E I A N N E V L	G G G E F D S E [] V E S S V Y K S I R E R E I V M P S E	D G A D [] P R D M V V G I Y E R I Q L R E R S N E D	G S G D F D Q A M L E Q V Y Y S I K R E I I I P E E
D G C [] P E E Q L R H F D S I K S E P F S I P E D	D G A D F D R Q F L S D I Y K A I R N F E I I V A E E	N G G D Y P E W Y L S K Y Y S S I R D R E I I M P E E	A G R D F P A E Y L E G I Y R S I Q Q N E I I L P D E	S G H D F P R E [] L K A L Y N S I K N E K L Q W T I D	D E G A [] P P A E L E D I Y R R I L A N E L V M E E	E G R D F P R V L K A L Y N S I K N E K L E W A A D	D G Q N F S [] K Y L Q D I F D S I K S N E I I L P D E	N G K D F P A W Y L E K I Y F S I K E R E I I I P E E																																	
D G A D [] P R D M V V G Y E R Q L R E L R S N E D	G G A D Y D E Q F L L G I Y D R I S S E P L K L K E D	A G R D [] D S D F L T D I Y N S Y D E E I R L F D	N Q K D F P [] W Y L D K V Y C S I R D K E I V M P E E	G G Q D F D P N L R E I Y [] T K N N E I V M P A E E	N G R D F D P E W Y L S K I Y N S S K D R E I I M P E E	G G K N F D P Q Y L K D V Y N S I K A D E I I L P D E	N G Q D F D A K D L K T L Y N S S K N E K L E W A I D	Q Q N G V S V E T I A Q I Y D S I A K Q P F K L P D E	G G Q D L D Q K M L Q N V Y R R I V K N K E F K S V D D	N G Q D F P E W Y L S K I Y F S I K S R E I I M P E E	G N S D F D Q E M L T N V Y N A I K N E E I V M P A E	D G E N F P K E V L K A I Y Q A I K T G T I E W A V D	E D E D [] P R S M L E Q V F H S I A T D E I R I	N N K D F N P E Y L K A I Y E A I R T N E I I A P D E	G G K D F P E W Y L A K I Y Q S I K D R E I I M P E E	N K Q D F E E S F L I G I Y D R I V L K E P F K I I N D	N G R D L P D D F L T E L Y Y T I A N N E I K T F E D	Q G K D [] P K D F L T D L Y N G I T S K K I F V S R D	G G K D F D T D F L Q D I Y T S I E R N E I I L P D E	D G Q D V [] D R M I G I Y N R I Q T Q E F R	D G G N F P K E Q L K A L Y W S I R S E K L E W A V D	N G K D F S T K Y L Q D I Y S S I Q D S E I I L P D E	N Q K D Y P F W Y L D R I Y C S I R D K E I V M P E E	N Q K D F P M W Y L E K I Y Y S I R D K E I V M P E E																	
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UniRef90_D3BIH4	K I E E A K K F K S S P K K G D Q F V N L G V V E R N D V Q L A K F F R
UniRef90_K1WXX3	K I V I T G A G K F N E S P K A G L A Y H A Q G I D D D A Q Q L A T F K
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UniRef90_W4XJ31	F L E S A A L F N K K P K E G I S L L L E K G F I S D T D E D I A K F L F
UniRef90_A4VE41	R G M E I A T K S F K K A L E Y L I A M G L I K E T P R D I T S F L R
UniRef90_G8BPY7	R E Y R V G L N L F N K N P E R G I Q Y L F D K G F I D D D K A L R V A L F L
UniRef90_UPI00034FFA92	C Q G G V S E A A H R L A R R L Y
UniRef90_T0S7V4	R L Y R V C L N Y F N K S P V K G M D M L I R F R F L E A S P R Q I A R F L H
UniRef90_T1KGE2	S A S R L A K R L Y S A I R L A K R L Y
UniRef90_UPI000350E84E	F L K C T K T F D K S F K E G L K T L Q E K G F V D D D L D E L A N F F F
UniRef90_U6HVD9	F L K C A E E F N I K P K I G P M L I E K G F I K S S D S D L A E F L F
UniRef90_V4A281	K A I G Y L C A M N F L E E T P K E I S S F L R
UniRef90_E0VI67	I L E H G I E L F N M K P K H G L K T L H G K G H V D E D P K S V A A F L H
UniRef90_C4QYF9	R Q Y R V G L N L F N K K P K R G I Q F L Q E Q G M L G T S V E D I A Q F L H
UniRef90_G8C1L8	E F L K S A E L F N E N P K L G P S L I E K G F I K N S D E D L A E F L F
UniRef90_F0W2F2	G Q E F N R K P L A G K Y L Q Q N G F L P I D S K S F A M F L R
UniRef90_F0XZH6	Q K L L L T A A Q K F N E K P K K G V A F M L E N G L V D V D P K S L A R F L K
UniRef90_G5B9N3	I V M A G N L F N D K P K K E F L R
UniRef90_B4H849	Q L E Q G V L L F N N S P E E G I S Y L I E H Q L V E D D P L Y I A N F L
UniRef90_G0WDG1	A T M F N Q D P D K W R M L A V E Q G V L D S N V H G V A E L L H
UniRef90_M4BIF1	F L R C A K L L N E K P K N G I K A L A E E G F I K D D L H E V A E F F F
UniRef90_L8WTF8	F L R C A K L L N E K P K N G I K A L A E E G F I K D D L H E V A E F F F
UniRef90_F4QE23	R H Y R I G L N L F N K K P E K G V Q Y L I E R G F V P D T P V G V A H F L L
UniRef90_UPI00034FFCEF	R H Y R I G L N L F N K K P E K G V Q Y L I E R G F V P D T P V G V A H F L L
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UniRef90_M3JCH3	K R F Q E A I A A F N A K P L T G I S L E A H G F L P S D A S S L A R L L R
UniRef90_E9H3M8	N R K F I D C I E K F N E N S K E G I E L L I E N K F I P H N N E E I A K F L F
UniRef90_UPI0003AE6F87	F K N G K V D K A M A R S L A E R L F
UniRef90_S9YEE1	K K A V Q Y L V A S S F M S D T P R D V A S F L F
UniRef90_J9I309	I V E H G T L L F N R S P M T G I R F L Q Q Q N I L D D D S L A V A A F L L
UniRef90_F0W8P4	L D K A V L L F N Q H G L E A V A V L E D Q G I L K N D P E A V A L F L Y
UniRef90_T0S803	K S F E I S R S E P N S P S K T S V P D Y D R S E F D T E A P V R L A K R F
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UniRef90_J7S250	N I L L E Q G K Q K F S S H P K K G I E F L T Q C G L L K E T P T D I A E F L R
UniRef90_UPI0002A482B3	E M N K A V Q K F N F K P E H C V K H L I A V Q Y M E N D P K L F A Q F L W
UniRef90_W7U6C9	L A K R L Y
UniRef90_UPI0002221F8A	R K L T S R K P E R G V Q L L T A W G F V K S S P D S L A S L L F
UniRef90_F0VB25	D A A K R L A K R L F
UniRef90_UPI000185D71F	I V E H G T L L F N R S P M T G I R F L Q Q Q N I L D D D S L A V A A F L L
UniRef90_E1FP95	R L D K A V L L F N Q H G L E A V A V L E D Q G I L K N D P E A V A L F L Y
UniRef90_B7FTA4	K S F E I S R S E P N S P S K T S V P D Y D R S E F D T E A P V R L A K R F
UniRef90_W5BAZ3	R L M R K A A R I F N H K A S R G I E F L L D A G L V A D T P M S V A T F L R
UniRef90_D3B5W1	N I L L E Q G K Q K F S S H P K K G I E F L T Q C G L L K E T P T D I A E F L R
UniRef90_Q9NQ4	E M N K A V Q K F N F K P E H C V K H L I A V Q Y M E N D P K L F A Q F L W
UniRef90_U1M7X4	L A K R L Y
UniRef90_E7EXV5	R R Y R I G L N L F N M N P D K G I Q F L I S R G F I P D T P I G V A H F L L
UniRef90_U6GEN6	V D K A V L L F N K E G H A A L Q L L G E R K L I E A D P A A V A R F L Y
UniRef90_S9YCW8	A K R T A E F L K
UniRef90_S9VYF6	C E V D G E K V R G L A Q R L F
UniRef90_H3CUF0	A F L R V
UniRef90_A4IA28	S A A R L A K R L F
UniRef90_R7VD12	A Q R V A V L W Y
UniRef90_B6DTH6	A R R L A K R L Y
UniRef90_Q4S2P2	S R I E K V G I R K K P E R G V Q L L T A W R F V D D S A E S L A N L L F
UniRef90_W2SWQ7	E F I K C C E K F N K K P K E G I S M L I S K G F I I S D A E D I A D F L F
UniRef90_R7QLD3	V A I A A N H Y N R D E K K G M E Y L R L S Q L V P T P P E S M A F F L R
UniRef90_J7SB16	A K R L A K R L Y
UniRef90_B9FIU1	E T Q R A I Q K F N K K P S L G I K H L I Q T G I I P D D A V G I A K F L I
UniRef90_I3JJ35	K L Q H A A K V F N S S E K R L L A M L K E H G L L E A D V Q S I V R F L R
UniRef90_Q24126	L F I K C A K A F N K K A K V G L E M F V E N Q F I K D N D L D S Q F L R
UniRef90_W5QI27	R L E K G S Q F F F N N N S S R C I E D L Q G L D L P M T A K D M A L F C R
UniRef90_R7QFS6	M E G C A A I F N K S I K Q G I Q S L I Q S E L V E D D L Y K I G V F L R
UniRef90_G0V7F3	E P G S A D P L A N G C Q G V S E A A R R L A R R L Y
UniRef90_B6AD16	K K F I E C T S A F N A K W K V G I S K L I E N K F I I E S D N E D I S R F L F
UniRef90_T1EJ17	S L A A D Y F N A E N K W I S K V E S L G I L P V N A K L V A Q F L H
UniRef90_A2DUZ2	N N S K Q N S I Q L H R E T P I I D D T P A K Y L V R
UniRef90_L5LBX5	E F Q K G I S K F N F K P K V G I R H F I Q H G L I E E N P K H L A E F F K
UniRef90_UPI0001D5E8A5	E S P A K Y L A R E T A H S M Y
UniRef90_I2H0S2	N R K L Y H A A K L F N D K P K K G Q Y L L D N E M L P S P P Q S V A A F L R
UniRef90_F0YNK5	Q E I Q K G V D L F K K N P E K G V S F L I K A N I L Q D D P A S I A R F L I
UniRef90_K1WJ33	E E D D T S A T Y L T K
UniRef90_Q22E49	M N F V K D S P R D V T S F L R
UniRef90_E9E988	E H K V G K E H C I D M I N L T N
UniRef90_F2UHJ8	UniRef90_F6WI12
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UniRef90_E3RJB5	UniRef90_B6DQ971
UniRef90_K3WH1	UniRef90_UPI0004625CAB
UniRef90_B4DYN7	UniRef90_B4DYN7

50 60 70 80

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UniRef90_K1WXX3	G T A R I S K K Q F G E F I S K K G N E P I L E A F I A S F N F D G K R V D D
UniRef90_UPI00044224F5	H L D G F G K S Q V A A F L Q K N N A F S Q R V A E A Y L S F F H F F A Q T L D
UniRef90_K4E095	L Q K E L D P V G V G E Y L G K D N E E R K A I L R A F I G L N D F S G L P I D
UniRef90_UPI0001A64070	Q N H N L S K H A V G T Y I G E C K E F N M Q V L D A F S K L H D F K D E E F L D
UniRef90_11FTP0	D Q Y G L S K E R I G E F V G E R Y D F N M L V L E C L V I Q L I D L S G K S I D
UniRef90_C5KK92	K Q E N L D K H V I G E Y L G K D N E E R F N I A A V L N R F A Q L F D Y R D L P A D
UniRef90_D8TLF1	T C P G L N K N T T I G E L L G D P D P F Y L Q V L E S Y T I G F D F A H L K F D
UniRef90_Q6FQV9	N N S R L N K K T L G L Y L C D P K K T G L L Q E F I D F F D F K G L R V D
UniRef90_L1IEB4	Y T D G L D D T A V G D Y I L G D G D E L C G K V L L H H Y V G T F N F T G L G F D D
UniRef90_UPI0003596DE3	H L D R F K R S D V A K H L G K N N E F S R L V A E E Y L K F F D F T G M T L D
UniRef90_UPI00034FFBFA	K L D G F E R S Q V A P Y L Q K N N E F S A K V A E E Y L S F F D F T G K P L D
UniRef90_W4XJ31	K D E R L E K R G D F V
UniRef90_A4VE41	T T E G L N K E Q L G Q F F G S N K E R N Q K I L E A F C G L M D F R N L R F D
UniRef90_G8BPY7	N N T R M N K K T I G L L L S D P D K K S L L N Y F I G L Y D F N E L R V D
UniRef90_UPI00034FFA92	H L D G F K K S D V S R H L S K N N E F S R A V A E E Y V K H F E F A N T T L D
UniRef90_T0S7V4	Y H T F D E S D I G D Y L G E D E E F K L H V R L T Y A R A L S F T G M T L V
UniRef90_T1KGE2	T K K G L S K Q M I G E Y L G D Q S P F N Q L V L K F F V R E M D F T G M L L D
UniRef90_UPI000350E84E	H L E G F Q R C D V A R Q L G K N N E F S R L V A G E Y L L S F F D F S G L T L D
UniRef90_U6HVD9	I R G L A R T A I G E Y L G E M H D L C V A T A R Q F I R Q V D F R E K E I D
UniRef90_V4A281	A L D G F R K S D V S R H L F K K N D F S R A V A E E Y L K N F E F T G D T L L D
UniRef90_E0VI67	T L D G F K K S D V S R H L S K N N D F S R A V A E E Y L K H F T F T K D T L D
UniRef90_C4QYF9	K S S R L N K R T L G E F L L A K P K N L D L L K K F V G L F D F K G L R V D D
UniRef90_G8C1L8	N N S R V N K K Q I G L L L C D P K R T G L L N E F I K L F N F E N L R V D
UniRef90_F0W2F2	Y H D F F D E A D I G D Y L G E G D E D L K Q I R L T Y V R A M S F E G M T L V
UniRef90_F0XZH6	A H A A A D K T V V G D Y L G K E E A F C V K V L H E Y V D A M D F T G L E F D
UniRef90_G5B9N3	Q E E R L D S
UniRef90_B4H849	T R K G L S R Q M I G E Y L G N Q N Q F N M A V L S C F A M E D L S G R Q V D
UniRef90_G0WDG1	N N S R M N K R T I G L L L C N P K R T P L L K C F I D L F D F K G L R V D
UniRef90_M4BIF1	S L P D L S K T S V G V Y L G D T I D F H R D V L T N F V R S F N F E G E S I V
UniRef90_L8WTF8	N C P R L D K K K V L G E Y I S H L D N P E L L K E F I I G L F D F R G V S I T
UniRef90_F4QE23	T C P L L N K R S I G D Y L G E S D P F S I S I L E A F I A R F N F Q D L L D F D
UniRef90_UPI00034FFCEF	H T D F L D K R K V G E L L G G H S N L S I L N N Y V H L F N T N S L E P D
UniRef90_Q5CLE2	T A P G L D K S Q V G I F L S K E Y P F H A E V R A S F A S L Y D F A D L P F A
UniRef90_B7GEP6	U h i R g l D k s q v g i f l s k e y p f h a e v r a s f a s l y d f a d l p f a
UniRef90_M3JCH0	S K S G L N K K V L G E F L L A K P T N S E L F G Y F I D L F D F T D L R V D
UniRef90_E9H3M8	S L D G F Q K S D V S R H L S K N N D F N R T V A E E Y L K H F D F E G A T L D
UniRef90_UPI0003AE6F87	Q R K G L S R Q M I G E F L L G N R Q Q F N R D V L D
UniRef90_S9YEE1	R L D G F R K A D V A R H L G K N N D F S K L V A G E Y L K F F V F T G M T L D
UniRef90_J9I309	T T P G L S K Y A I G Q Y I G L N D P F S K E V L K E F S N K L D F R E L E V D
UniRef90_F0W8P4	S L P G I D K K M V G I Q Y L G D T V S F H Q D V L K Q Y V A S F D F D G E C I L
UniRef90_T0S803	S L P G L D K N C V G Q Y L G T M I E F H Q E L L P A Y V A A F D F D D V Y L L V
UniRef90_Q15795	F T D L N L V
UniRef90_J7S250	A N N G M N K K Q L G L L I C K P T N V S L L D K F M S N F D F R G L K I D
UniRef90_UPI0002A482B3	N L D R I Q R A D V V K H L D K D N D F S H A V G E E Y L Q F F D F T G Q T L L D
UniRef90_W7U6C9	Y R D L L D P E A I G D Y L L G E G G H A H D A A Y W S Y V R A V S F H N M T L E
UniRef90_UPI000221F8A	G R R G L S K S M I G E Y I G T H S P Y H S L V L K Y F T G M L D I R G L E V D
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UniRef90_UPI000185D71F	E T P G L D K R K V G L L L G D A S P F N I S I L R F S S L F D V R G V S I D
UniRef90_E1FP95	V L D G F K R E D V A A H L S K T N E F G S V A E E Y C A L F N F S G I R L D
UniRef90_B7FTA4	N G V G L D K K A V G A Y L G E R D W F H K D V L Q S Y Y C G L F R F E G Q S L L
UniRef90_W5BAZ3	M H A Y V D S M K F S G L K F D
UniRef90_D3B5W1	Q S D F D Q K K I G E Y L C S H I H S F I Y V L Y K F I D T F D F K N I D I D
UniRef90_Q9NQ4	E N R D L N K D K L L G E L L F G G S N E F D Q K V F S L Y V D F M N F K G L Q V D
UniRef90_U1M7X4	A L D G F R K C D V A A H L S K T N D F G V A V A D E Y C A L F N F L G I R L D
UniRef90_E7EXV5	N L D G F R K C D V A R H L S K N N D F S R M V A E E Y L H Y F N F T A M T L D
UniRef90_U6GEN6	D T P G L D K K K V G E V L G D C S S F S I L V L Q S F S A S L C D Y R G L S I D
UniRef90_S9YCW8	Q R K G L S R Q M I G E F L L G N K K Q F N R D V L D C V I D E M D F S A M E L D
UniRef90_S9VYF6	N E D F I D K V I L G D Y F S K C Y R D N K A I F E A W I K L H D F T K L S D
UniRef90_H3CUF0	K L D G F Q R V D V V K H L D K D N D F S R A V G E E Y L K F F D F A G Q P L D
UniRef90_A4IA28	K E D Y L D K M V L G D Y F A K C F R R P R V V F E E W I G L H D F T G K T L D
UniRef90_R7VD12	H M D G F K K S D V T K H L S K N E F A Q L V G E E Y L S F D D Y S T R P L D
UniRef90_B6DTH6	S L D G L D R L V L G D F F G F R K E L H Q T I F K M W I E L H D F R N K A I D
UniRef90_Q4S2P2	N L E G F R K S D V A R H L S K N N Q F S Q M V V E E Y L S N F D F T G T T I D
UniRef90_W2SWQ7	G R R G L S K Q M I G E Y I A T H S T F H S C V L K Y F I G Q D V R G L E V D
UniRef90_R7QLD3	M H A Y T D M N E F G D L T F D
UniRef90_J7SB16	N N N R M N K K T I G L L L C D P K N V P L L E N F I D L F N F K S L R I D
UniRef90_B9FIU1	Y S P G L D K N K I G E L L G D P E E Q S L R V L K E F T T E T F D F T G V I L D
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UniRef90_Q24126	E N P S I S K D Q I G E Y I G G H H E L N I V L S E F T D L I N F Q D R R I D
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UniRef90_B6AD16	Y S P G L D P Q I L G E Y I S K N D W N G Q V R A A Y M S T F S F C G E T L V
UniRef90_T1EJ17	K L D G F N K T D V V A K H L G K K D S F S N L V Q G E Y L K N F D F R S Q K L D
UniRef90_A2DUZ2	S S P L L N P T N I S E Y I V K P E N Q K A L E G F I S T F N F Q K V T L D
UniRef90_L5LBX5	U h i S p g l d p q i l G e y i s k n d w n G Q V R A A Y M S T F S F C G E t l v
UniRef90_UPI0001D5E8A5	H L E G F Q R C D V A R Q L G K N N E F S R L V A G E Y L S F F D F S G L T L D
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UniRef90_F0YNK5	N N E R L N K K M I G L V L C D P N N T E L L E K F N D L F D F R S L R V D
UniRef90_K1WJ33	E N P R L D K R R I G E L L S K G P P R L H V V L R E Y A S R F D F R A Q P F H
UniRef90_Q22E49	L E E V V S R G L V A S V L S K T D P F S Q A V L R S Y M R G F G F G D P M D
UniRef90_E9E988	F N N Q I N H E K I G E L F G S H E E N N K R I L A E F I E Y L N F E N L D L V
UniRef90_F2UHJ8	R L E G V S R G V I A S A L S K G D P F S V A V L R S Y M R S F S F G D P M D
UniRef90_F6WI12	E G R G L N K D E I A R V I G A E E S K Y E R L V C M Y Y L Q L F D F K A Q D I V
UniRef90_K0QZA8	M I G E F L G N R Q F N R D V L D C V V I D E M D F S A M E L D
UniRef90_A0D6X2	T G V G L D K P A V G Q Y Y L G E Q D T F H K E L L T S F C S S F V F E N Q T V L
UniRef90_E3RJB5	E N K S L P K E S V G Q Y Y L G G H H P I N Q V L S E Y T N F L
UniRef90_B6Q971	L Q E S V P K G S I G T I L S K Y D D F Y K V A L R K F M R T F A F F G E P I D
UniRef90_K3WH1	M H D S F D E A E I G D Y L G E G D E F K V Q V R L S Y V R A S F K G M T L V
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130 140 150 160

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170 180

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UniRef90_G3JDB5	P D Q A Y F I A F S S L L I L H T D F V F N K N N K H K M Q K A D Y V K N T R G		
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UniRef90_Q6CCN3	A E L A Y V V A F S L M I L L H T D S F N K S N K H K M Q K S D Y I N N T		
UniRef90_W6PTH9	P D N A Y F I A F S S L L I L H T D V F N K N N K R K M Q K A D Y V K I S R		
UniRef90_F9X5P7	A D A A Y I I A F S S I M M L H T D A F N K N N K R K M Q K Q D Y I K N T S G		
UniRef90_C3Y059	E D A V H T L T C A L M L L N T D L H G Q H G G K R M T C T A F I D N S G L N		
UniRef90_G3Q881	P D T I F I L A F A		
UniRef90_K4E3C2	A N T A F I L S F S I C M L N T D A H S P H V K N K M T C D E F A R N N R G D		
UniRef90_E3KMA3	P D Q V Y I L A F S S I I M L H T D A F N K S N K A K M S R A D Y V K N T R		
UniRef90_G2X311	P D Q A Y F I A F S S L L I L H T D V F N K N K Y K M Q Q N D Y I K N T R G		
UniRef90_M9LV11	D D Q P Y I L S F S S L M M L H T D A F N K N A K N K M T K V D Y L R N T		
UniRef90_UP10004412C20	Q D A V Y I L A Y S V L L L N T D Q H N H P Q N W K R M T P E D Y Q R N R G M N		
UniRef90_G4T821	K D H A Y I L A F S S L I M L H T D A F N K S N K T K M T K A Y V K N A R L P G		
UniRef90_A4I0A3	D S G A F V L S F A I I M L N T D Q H S G K V A Q Q M K R E D F V K M N R G D		
UniRef90_H8NJ92	K D A A Y I L A Y Q A I M L N T D L H S P S I S K K M T F E Q L K K N L K G T N		
UniRef90_W6KI61	A E S A F I L S Y S V C M L N T D A H S P H I K D K M T E E G F I K N N R G D		
UniRef90_W4GAL9	V D V A Y L L S F S M I M L N T D L H N A N I R K K M S C A D F V K N N V N Y N		
UniRef90_Q5CQZ7	S D T I F I L S Y S I I M L N T D L H N H Q V K N K M T I D E F I K N N K G D		
UniRef90_A2E17X	A S A I H L L A Y A W V M L Q T S M F N R N A T K D S F D Q F R S M L S G Q N		
UniRef90_X8JQ67	E D Q A Y V I A F S S L M M L H T D A F N K S N K N K M T K P D Y V K N T R		
UniRef90_K8EXJ9	V D C V T L I I A F A I I I M L N T D A H N P M V D M R M S R E D F L N M A L D T P		
UniRef90_K2S2M1	P E E A Y F I S F S S I V L L N S D F F P S N K R K M Q K P D Y I K N C N G S N		
UniRef90_S8EJ45	D D N P Y I L A F S S L I M L H T D V F N K H N K R K M T K A D Y M K N T R		
UniRef90_UP1000440FC4B	P D T I F I L A F A I I V L L N T D M Y S P N I K R K M L L E D F I R N R G V D		
UniRef90_C5G6V0	T E Q A Y F I A F S S L L I L H T D V F N K N N K R K M Q K P D Y V R N T Q G		
UniRef90_A2EDW6	V E E V Y S V M Y S V I L L N S D I I N P K N P R P M T T S Q F I S N I R T I		
UniRef90_D3BTU0	D T D V F V L L S Y S S I I M L S D L H T A S I K N H I T K K E W I D N Y N R A R		
UniRef90_G3H7U4	P D T I F I L A F A I I I L L N T D M Y S P S V K R K M K L D D F I K N L R G V D		
UniRef90_K7FL71	P P L H H S P A L P V T L I H T G L I S N N I G K R M S C S D F I G N L E G L N		
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UniRef90_X6NZJ8	K D A A F I L M A F S S I V Q L H T D A H S P Q V R L Q E K Y S R E R R G R		
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UniRef90_UP10002C3E701	V D E I Y Q I A M S I I C L S T E T H N P N A K V K D K F R D V I L S D R G F N		
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UniRef90_K7H678	A D Q A H T V A Y S C I M V N T L L H N P N V K D K P S L E K Y I E M N E D L L		
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UniRef90_W2SQW8			
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UniRef90_G0TUA1	E K G P F I L S F S S I I M L N T D Q H S G K L T T P M T Q E D F R R M L R G S D		
UniRef90_A0A024UF20	S D V A F F L A F S S V I L L Q T D L H N P S V P N K M T K D Q F I R A N E G A G		
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UniRef90_I7MD08	S D I V Y I L A Y S I I M L H T D I E S D K I E K K M K R Q D Y V E R T I N V T		
UniRef90_T1GMJ1	D Y P V K E K P S V D Q F I S M N R G I N		
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UniRef90_B6JZG5	A D E C Y I L S F S S L M I L H T D A F N V V N N R R K M T R S E F I T T N T		
UniRef90_K2GS54	S N Q I Y F L A T T I I F L S T E T H N A N V R T M D T Y E K F K G M V E Q F N		
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UniRef90_S9Q006	E D Q C Y I L V F S S L I M L H T D F Y N I N N R Q K M T K S E F I A N T N L P N		
UniRef90_S9Q0Q5	S D E C Y I L T F S S L I M L H T D F Y N I N N R Q K M T K S E F I A N T N L P N		
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UniRef90_U6PY88	V D E V H T L T C A L L L N S D L H G E N L G K K M S I R D F I I N N I G H		
UniRef90_Q22BX7	S D S I V Y V I S A M M M L H S D L H N E N N Q K M Q L E Q F I L N Q V R G C N		
UniRef90_W6KWH4	E S G A F V L S F A I I I M L N T D L H S G K M Q K C M T Q N D F K N I N R S I D		
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UniRef90_O13817	Q D Q C Y I L V F S S L I M L H T D V F N S N N K H K M T K P E F I N L C		
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UniRef90_S2K7D8	A D V V Y A V V Y S L L L N T D L H V A Q N H A R M T R S E F I R N L M G H K		
UniRef90_K3X252	E D A V Y T L A F S A V L L N T D A H N P N L A R R F K K D A F I R N H R I L V		
UniRef90_C9ZMK7	E Q G P F I L G F S S L I M L N T D Q H S G K M S K P M T Q E D F R R M H R D S D		
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UniRef90_G3IEU0	V D L H G Q N I G K S M S C Q E F I T N L N G L Q		
UniRef90_R7V3T3	K D T V Y V V C F S S L I M L S V D L T S P H V R N K M S K R E F I R N T R Q A V		
UniRef90_B6K3Q5	P D K C Y I L V F S S L I M L H T D A F N V V N N K H K M T K P E F V Q L C K		
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UniRef90_W4GAL9 Q G T P L P E P F L I S I I Y H N I A T N Q F R T S D

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 UniRef90_UP10003341399 Q G V N Y F M S K G I L D D S S K E I A K F I F
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<p>Q D Q C L I L A Y A V L M L N T E L H N P N V N G P M T Q L Q F A N L V R N T D V V H T I C Y S I L L L N T D L H M A D I E Q K M T R S Q F V I K N T A S V V H A V V Y S I L L L N T D L H V A E L A S R M S R S Q F V V R N T P S A C F V F T I S V V M L N T E L H N M K A L C N S T V E S F V E R N S I T E D A V Y T L A F S V L L L N T D A H N P K L A R K M S R A D F I R N Y H R L G F D T I F L M A F A I I M L N T D S H N S S I K R K M K V E D F I R N L R A I D R N M A G R L V L A V R L N M I L H G D Y P V E D F P L R D W I N V V Q R A D</p>	<p>L D A T H T L V C A I A L L N T D L N G V K A R R R M T C K Q F I N N A G M G R D E I Y L L C F S M I M L S V D L W S P S I K N K M S K R E F I R N T R Q V V A S V V H A V S Y S L L L N T D L H V A D L V T R M S R S Q F V V R N T E D A A Y V L S F S L V M L N T D L H S Q N I K D R M T R D G F V S N N R G I D</p>
<p>L D V V H T T C Y S I M L L N T D L H I A D I E S K M T R S Q F I K N T M D V I H T M C Y S I M L L N T D L H V A D I E H K M T R S Q F I K N T K D V A V R L V R A I V Q L N E A M H T G Y P K R N I I A R D F M D A F R R Y D</p>	
<p>I D I V H T I C Y S I L L L N T D L H I A D I D Q K M T R S Q F I K N T M P T V S D V V H T I C Y S I L L L N T D L H I A D I G Q K M T K N Q F V V R N T D I I H T I C Y S I M L L N T D L H V A E I E S K M T R S Q F I K N T T D V V H T I C Y S I L L L N T D L H M A D I E Q K M T R S Q F I K N T T D V V H T I C Y S V L L L N T D L H I A D I E Q K M T R S Q F I K N T K D L A I R L V R G L N Q L N D L H T G L P R R N I T A R D F I D A F R R C D P E Q I Y L L A T S V M C V A L D T K T K R I T F K E F S E M I T D V V H T I C Y S I L L L N T D L H I A D I E S K M T K S Q F V V K N T T D V V H T I C Y S I L L L N T D L H M A D I E Q K M T R S Q F I K N T R D L A V R F V R A I V Q L N E L V H T G Y M L N Q I S S R D F I S A F R R F D T E S V H I L C F A W L M V H T S L H N T S V T E K T T Q E S F R S M I K G Q N K D L A V R L V R A I A Q L N E V M H T G Y P K R N V I S R D F I V E A F R R Y D V D V V H T I C Y S I L L L N T D L H M A D I E S R M T R S Q F V V K N T I E D V S L L T T S V I G I A M D T S N K E M T L K K F Q E M V S G I K S Q L A S D L V F A I M A L N D A L H T P N F P R P V T K Q D F V S V F R Q H D S N I V H A V A Y S L L L N T D L H V A D L A T R M S R N Q F V V R N T S D T V H T V V S S L L L N T D L H H N K I V D K K M T S R Q F V V D N T E N A C F I M G V A I I M L N T N L H N P H A A S K M T D S S F C A Q L R G C N A D T P F I L S F A I I M L N T D L H R A N R R R M T K E D F I S N L S D V V F L L S F A I V M L N T D L H H P D A K T K M S V D N F L A N T Y R I E S K L V G R F V I A I M E L N D A L H S G K P N E A I T R D F I V A A F R G T D K D L A V R V A R A L V I Q L N E V L H G G I V Q R N V T N R D F I D A F R R Y D P D G A Y L L A F A A V M L N T D A H N P Q A E R R I A A A D F V L M A Q Q E A Q D Q C L I L A Y A V L M L H T E L H N P N V N G P M T Q A Q F A N L V R N A V G V H A V S Y S I L L L N T D L H V A E L Q S R M S R G Q F V V R N T R D L A S K L V R A L I Q L N E V L H P T Y L H R N V T D R D F I E A F Q R I D E D Y C Y I L T Y S L I M L H T D R F N Q N N K K M A K Y E F V V D N N E D W G S D V P Y V L V A F S M V M L N T D H F N P N A K S K M T K A D Y I K N T R I S D I V H T I L Y S V L L L N T D I H V A D I P S K M S R S Q F V V K N T</p>	<p>I R N T R A D M V H A M S Y S I L L L N T D L H V V D T T S R M S R S Q F I R N T K D L A V R L V R A L V Q L N E A L H P S R I K R N V L N R D F I D A F R R L D S N I V H A V S Y S I L L L N T D L H V A D L S T R M S R N Q F I K N T L D G I H T L T C A L M L L N T D L H G H N I G K K M S C Q Q F I A N L D R L N P D I V H A I S Y S I L L L N T D L H M A D I E G E K M S R A A Y V K N T Q D V H T I C Y S I L L L N T D L H M A D I E G E K M S R A A Y V K N T A S N V H Q V V Y S I L L L N T D L H V A E L A H H M T K Q Q F I T N T L T E E K V E Q F S I L L L I A T E S H N S N V K L K V V D T F E K F N N I I C V D V V Y T M L Y S I L L V N T D L H V A D L Q S R M S T K P Q F V V K N T P D I V H A I A Y S I L L L N T D L H V A D L T H K M T K V Q F V E N T S D I V F I V V V A T V M L N T N I H N P S A G M R L D V K A F R G Q I R R C N</p>

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UniRef90_B6QTL8	A A L R S L L C T K M A L L K G E T Q Q V D R I V L D A L S T R W C E C N P N H F K A
UniRef90_M2QZZ1	N A F R R L C A K L F L K A E T Q Q V D R I L E E F S R R Y W E C N S N S V Y N
UniRef90_X8JV48	E A I R Q L C N K L Y I L K G E T Q Q I D R I V L E A F S E Q Y I I Q N P D S W Q V
UniRef90_UPI00045603A0	S G L R S L L L E L R F P P D V K S F E A V L V N F A R H W V A C N V K P G F T
UniRef90_UPI00044142E2	T A L R V F L L S L L A M P G D P G A F E V L L G V F A S R W F D V N S G S I A Y
UniRef90_G1X6W3	I A F R G L C E K L V L K G E T Q Q V D R I V S A V A K R W C D C N Q N H F K N
UniRef90_D5GGS8	S T L R I F C G R L V F K G E T Q Q V D R I M D A I A K R W C E C N P H G F K L
UniRef90_G8BND1	V A L R V L L M F V E L L P K E T Q Q I D R I L L Q H F S K V Y Y Q Q H H T G W K S
UniRef90_U6KVS8	A A L R K F L K T F R L P G E S Q Q I E R V M E A F A D E F F R Q Q P
UniRef90_A0A058ZAR1	E A C M H F L A S F V L P S E S Q Q I D R I V V A A F A Y R H W Q T S P C F A D
UniRef90_I1CCY3	E A L R I L L T T F R L P S L W E A L E Y I I E R F A K K W H D A N Q N V I F H
UniRef90_J7RFS8	I A L R K L L I F V E L L P K E A Q Q I D R I L L T A F G K V Y Y K Q Q R E H W Y D
UniRef90_UPI0003C19840	E A L R K F Q A H I R V Q G E A Q K V E R L I E A F F
UniRef90_H8ZCK9	T A L R I F L L S I S T L P G E G Q K I E R V I S A F S K K Y S E D R K Q D
UniRef90_F5HB19	D A L R M F L L S L R L P T D H I S C E T L L K V F A E R Y Y V A N H D H T Y N
UniRef90_E1EWL1	E A L R D I L S H F K L P P G E G Q V I D R I M T C I S Y A Y V Q A D T A V I K H
UniRef90_X6NZ48	P A F R H F L C G F R L P P G E S Q Q I E R V I L V G F A H A F T R D N P H M F V S
UniRef90_Q87616	E A I R I L L T K F R L P P G E S Q Q I E R V I M E A F S K H Y V Q C E H A E L H S
UniRef90_D8M2L2	M F L E S F R L P P G E S Q Q I E R V I L L E F F C C S S Y Y D T D N F P F V S
UniRef90_Q8SR27	D G L R T Y L P S F H L S A E G Q I H R V V E A Y A D K Y Y S D N V D A C T F
UniRef90_S9PW55	Q S L R I L C G N L F I K G E T Q Q V D H L L E A F S S R W C H T N P R M F C T
UniRef90_Q6CT40	L S L R T V L L F L E L P K E S Q Q I E R F I L K C F S V S Y Y H C N A E R I E N
UniRef90_W4K5I1	L A F R R I C A K L Y L K A E T Q Q V D R I L I E F S S R R Y W D C N P G S F G T
UniRef90_H3CGB2	R N F L K A F P L M G E T Q E R E R V I L A H F S K R F C H C N P Q I P T F
UniRef90_G0URE6	Q G F Q E L F S T V K L P K E G Q R I E R V I L I E F F C C S S Y Y D T D N F P F V S
UniRef90_E1F747	V T I R Y Y L S F F H I P G E S Q Q I E R V I M K V F S Q H F V H M K G G T T F T
UniRef90_U6KG6	E A L R L R F L S L F R L P G E A Q K I D R I L L E R F A E R Y F Q D N
UniRef90_S2KC18	E A F R K L C Q K L Y F K A E A A Q E I D R I L L E V F S H R F W N Q N P D K Y K N
UniRef90_UPI0004408EA6	A A L R I F L L S I H I P G H A N T L E T L L D M F A G R W Y E A N A G I V F D
UniRef90_I2JSI3	I A L R E F L L M I N Q L P N E V Q Q I D R I I I F E F G R R Y S E Q H P E L G M N
UniRef90_S9XDZ6	N A L R E F F R R H I H A P E E G E Y Y E T L I T K F S H R F C A C N P D L M R S
UniRef90_R9XDH3	V S L R K L L L L S L P K E S Q Q I D R I I S C F M A G R V Y F T Q N K H D W G D D
UniRef90_A7TKB6	I A L R E L L M F V E L L P K E T Q Q I D R I I L Q E F S N V Y Y E E H K C G C K D
UniRef90_UPI000328BA02	N A L R E F F R R H I H A P E E G E Y Y E T L I T K F S H R F C A C N P D
UniRef90_J8LGT9	I A L R K L L M F L E L P K E S Q Q I D R I I M A F S V V Y Y K T Q K C A W C N
UniRef90_U6JRY1	E A L R Q F L S R F Q P P G E A Q Q V Y R I Y R F A
UniRef90_D3BJV8	S V Y R A F L E S F I I P G E S A V V E H I F E L L A R K I Y E N G K H I F Q T
UniRef90_Q4U8H7	M A I R T F L L S S F R L P P G E S Q Q I E R V I I E A F A K I Y F K S Q P
UniRef90_I6UP49	D G L R T F L L S F Y L S A E G Q V I H R V I V E A Y A D K Y Y L D N A G T C K T
UniRef90_Q6CAN6	G A L R Q V C D K L Y M K A E S S Q H D R I I I D S F S E R W V E C N P K H Y K T
UniRef90_V6LNX2	V A L R T F V L N Y F K L P P G E S Q Q I D R I I L Q F F S Q Q F S D R S S E L T K
UniRef90_L0B1K7	U N I T Y F L L S S F R L P P G E S Q Q I E R V I I I E T F A K V Y F E S Q P
UniRef90_A7APN4	M A I R L R F L L S S F R L P P G E S Q Q I E R V I I I E V F A T T Y F E A
UniRef90_G8ZSE1	I S M R K L L M F L E L P K E S Q Q I D R I I L T I F A A V Y Y E S Q C P W T N
UniRef90_I2JS2A	S S L R I L C D K L L F F K G E S Q Y D R I I I D S F S K S W F E C N R K T F G S S
UniRef90_W9WMK9	D S L R G L C D N I T I K G E S Q V I D R I V L T S F A Q R W C E C N P H N F K S
UniRef90_Q6C0R9	A S L R L L C T K L Y M K G E S Q V L S R I M E R F S V A W V Q A N P N G F S
UniRef90_J3KKX5	A A M R S L C S K M A L K G E T Q Q V D R I V L D A F S S R W C E C N P H N F K A
UniRef90_G7XF5	A A L R S L L C N R L L V L K G E T Q Q V D R I V L D A F S T R W C E C N P H S F K A
UniRef90_G0V897	I S L R K L L M F L E L P K E S Q Q I D R I I L T E F S R V Y Y R V Q R C S W V D
UniRef90_H2AYS2	I A L R K L L F F E L P K E S Q Q I D R I I I E Y S R N Y Y H S D L N P W E N
UniRef90_B6JV16	Q S L R T L C G N I Y T R A E T T Q L D R I F E L A A R W C S T N P H P F S D
UniRef90_I7MJ33	S A L R Y F V Q D L L Q I Q N D P E E Q I D R I I L L S C F A K K F Q Q N Q Q F E S
UniRef90_UPI0002C3EA90	A G F C A F I E S T K L P K E T T N S I N H L F E D Y A K Y F A E S S K Q F T Q
UniRef90_G0W4B0	V A L R K I L L M F L E L P K E S Q Q I D R I I I E F S N V Y H F K N K C A W K D
UniRef90_I3EGC8	T A L R V F L L S F T L P P G E G Q K I N R I I I S A F S K K Y Y S E D Q K Q D
UniRef90_Q4WFWF9	A A L R S L L C T R L L V L K G E T Q Q V D R I V L D A F S T R W C Q C N P H G F K A
UniRef90_U6GTF4	S A L R N F L L G F F R L P P G E A Q K I D R I I I E A F A H R F Y
UniRef90_A5DP11	T S T R M L C A K L H L K G E S Q E I D R I I I L S S F T K S Y I R C N V F A T Q N
UniRef90_D4ASH3	S S L R S L L C T K I A L K G E A Q Q V D R I V L D A F S C R W C E C N P N H G F T
UniRef90_L0PG50	T A L R H L C S K L L M I K A E T Q Q V M D R I I I L E F S K R W E C N S S S K L T
UniRef90_UPI000440CB85	Q G S I I S S P H L R R R E P S S A R E C
UniRef90_O13690	Q S L R M I C G N L Y V H G E T Q E L D H F L G E F S N Q W C R T N P G L F C N
UniRef90_W6MHT8	R S L R L L C E N Y F L K G E S Q Y I D K I L D S F A T S W Y Y T H G D D F G S
UniRef90_A0A023AYG9	E A L P R F L N L F R L P P G E A Q K I D R I I I V Q Q S K T Y V R D N P T F L T D
UniRef90_C8HVD2	T A L R G L C L R L L L K G E T Q Q V D R I V L D A F S K R W C Q C N P Q H F K A
UniRef90_E4YW85	T S L R K F F A M F H V P G D R T R M D S V L T F S R E F S A Q N E N V T F
UniRef90_G5DZL9	N A L R E F F R R H I H A P E E G E Y Y E T L I T K F S H R F C A C N P D L G L S
UniRef90_A0A024JCH9	G A L R D L C E K L Y M K G E S Q Q V H R I M E S F S K A W H N M N P N H F L D
UniRef90_A0DVC2	N S L H S L F S K L L V Q N D P Y L L D I L V K E F S R R Y Y E L N F N P F K S
UniRef90_K4DZ04	V A L R D T T C E F R P T F E A Q V W V A V I Q R R F G E A Y A A Q N P R S I T V
UniRef90_UPI0002B46F96	V E R V I F K V K P P E Q R G Y F L Q L I I D L I A K K Y L E C N P Q Y G F N
UniRef90_W7F4U2	S S L R L R F L R C F L P P G E A Q Q V I E R I I L E H F S L C F F Y S N P I H G D L
UniRef90_K0TP60	D A I R L R F L L S G F R L P P G E A Q Q V K
UniRef90_R0MNJ7	E S L R A Y L A S F F L V G E S Q V I H R V L T F S E K Y F I D N V G K I L I
UniRef90_UPI00029D75BF	E A L R Q F L L W S Y C L P R E D Q K I D Q T M E A F A C G Y C R C H P G I I Q S
UniRef90_L1K3B5	F G L R F A A E R C Q L P A D L V K L R R L L S C W S E H W F Q Q H V C F L S S
UniRef90_H2B1J6	V A L R K L L F F L D L P K E A Q K I D R I I I L S A F T K S Y L K Q H P S N V F S
UniRef90_C4Y371	A S T R M L C S K L Y L K G E S Q E I D R I I I L S S F T K S Y H R N N P F F T H N
UniRef90_C5MJ12	K S T R I L C S K L Y L K G E S Q E I D R I I I L S S F A Q S Y L N Q N V F C T Q N
UniRef90_I1ZIB8	U N I T Y F L L S S F R L P P G E S Q Q I E R V I I I L S A F T K S Y H K S N I F C T T N
UniRef90_H8XAC0	S S M R L L C S K L Y L K A E S Q E I D R I I I L S S F T K S Y H R N N P F F T H N
UniRef90_A1CJ43	A A L R S L L C T R L L V L K G E T Q Q V D R I I I L S A F T K S Y H R N N P F F T H N
UniRef90_D0AG9	T A L R D T T C E F R P T F E A Q V W V V I Q Q R F G E V Y A A Q N P R S I I S
UniRef90_I1BQ29	A A F R K L C S K L Y L K G E A A Q I D R I I I L S A F T K S Y H R Q Y W D C N K S C L L G
UniRef90_UPI000440DB03	N A L R D F F R R H I H A P E E G E Y Y E T L I I T K F S H R F C A C N P
UniRef90_Q6BU67	V S T R M L C S K L Y L K G E S Q E I D R I I I L S A F T K S Y H K S N I F C T T N

130 140 150 160

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

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

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

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

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

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

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

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

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

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

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

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

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

F E K I Y I I L Y S I I L L N T S L H N G E L N K R N T F T T F V N Q N P K K P

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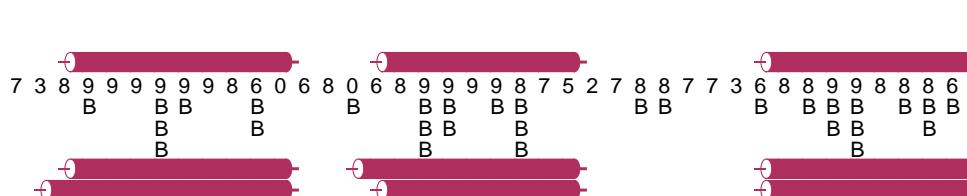
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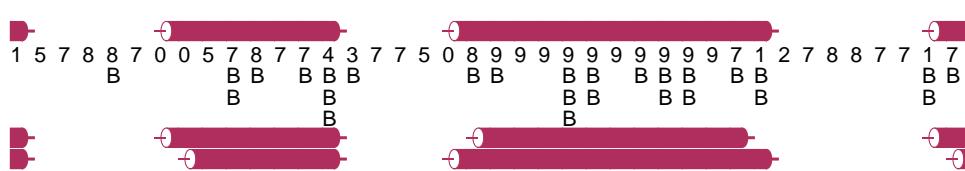
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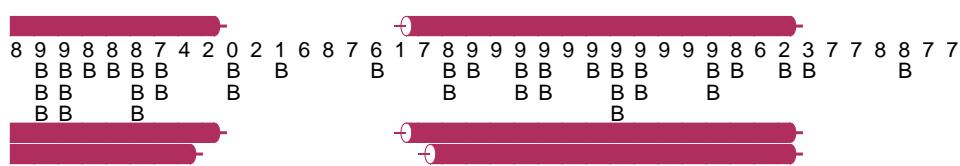
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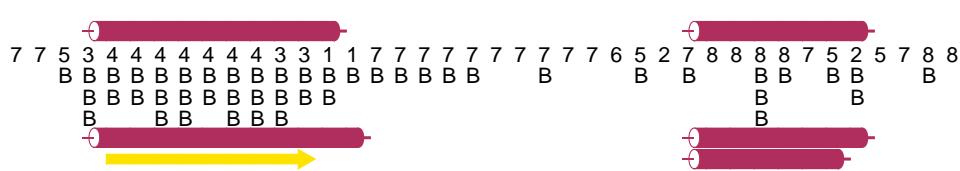
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