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

QUERY UniRef90_F2U102 UniRef90_C3YKG9 UniRef90_U3JTC8 UniRef90_K1Q4C3 UniRef90_UPI0003596493 UniRef90_UPI0004573523 UniRef90_A9UMK8 UniRef90_UPI00042BDE6A UniRef90_R7V7U3 UniRef90_UPI000443D961 UniRef90_H2Z2L6 UniRef90_T1DL75 UniRef90_T2MHA4 UniRef90_A7RY01 UniRef90_U6P0R2 UniRef90_E9FUV4 UniRef90_Q07T65 UniRef90_A0A023FJT6 UniRef90_W5LLG4 UniRef90_G4ZZ43 UniRef90_UPI000415D7D4 UniRef90_UPI0003C1767C UniRef90_UPI000443F70C UniRef90_UPI0002657C56 UniRef90_H2RNJ9 UniRef90_A1ZCH2 UniRef90_A9UTI2 UniRef90_V3ZQL8 UniRef90_J8TPQ6 UniRef90_B3RHY9 UniRef90_S2JA16 UniRef90_M7YH31 UniRef90_A9SZX7 UniRef90_A0A023XV79 UniRef90_U1NMM1 UniRef90_I4ZS43 UniRef90_UPI0002D9F964 UniRef90_Q13CD1 UniRef90_A0A015L8W1 UniRef90_T1IHV8 UniRef90_D8RLQ1 UniRef90_W4YXP1 UniRef90_D7TRJ7 UniRef90_B9HCF9 UniRef90_F7BQ94 UniRef90_F5SSC4 UniRef90_H0TK79 UniRef90_E4TSK2 UniRef90_D5ABT0 UniRef90_B3QB96 UniRef90_UPI000348FFB4 UniRef90_A0A058ZW54 UniRef90_K7IUY0 UniRef90_A0A024UWP5 UniRef90_L8HKF9 UniRef90_I1FE50 UniRef90_H2MYW6 UniRef90_W1P283 UniRef90_UPI00047D8250 UniRef90_H2WMP9 UniRef90_A0A059LHE5 UniRef90_H9KA63 UniRef90_Q0K0L9 UniRef90_UPI0002B447BA UniRef90_B2T099 UniRef90_UPI000248C7A3 UniRef90_A0A058Z2G6 UniRef90_K4BPX6 UniRef90_N9DP04 UniRef90_G3IHH6 UniRef90_D3AYC8 UniRef90_A0K4Z7 UniRef90_UPI000345DDD6 UniRef90_H3FHT5 UniRef90_A3XLL1 UniRef90_J3JZC5 UniRef90_W9H1L4 UniRef90_UPI0002C2EB6F UniRef90_R4WVN8 UniRef90_A0A026W8P4 UniRef90_Q2S021 UniRef90_F4QE44 UniRef90_W9QM42 UniRef90_Q1ZXQ1 UniRef90_F7QKN6 UniRef90_R7WV41 UniRef90_K6UHE7 UniRef90_E0VQ89 UniRef90_T0PVT5 UniRef90_B0V9Y8 UniRef90_G6CZV3

90 100 110
A R A S L Q N K L L S S A S D E P T L R R D D N Q K E L R Q R A F T S S A T M H L P
A R E T L I Q K L L L S S A D E P T L R R D D N Q K E L R Q R A F T S S A T M H L P
G R A F L Q Q K L L L S S A G E P T L R R D D N Q K E L R Q R A F T S S A T M H L P
U n i R e f 9 0 _ U 3 J T C 8 A R A F L Q Q K L L L S S A G E P T L R R D D N Q K E L R Q R A F T S S A T M H L P
U n i R e f 9 0 _ K 1 Q 4 C 3 A R T T L Q Q K L L L S S A Q E P L L L R S R D N N K A D L R R A S R A F V V P Q Q S Q A D A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 3 5 9 6 4 9 3 A R E A V L Q Q R Q L L S S A S D S E P T L R R D D N N A D L R R K R A F V V S Q Q K S T A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 4 5 7 3 5 2 3 A R A V L Q Q Q L L L S S A S E S D P T L R R D D N V E L L R S K R A F V V S Q Q A K A T M H L P
U n i R e f 9 0 _ A 9 U M K 8 V R Q F L Q Q K L L L S S A S E S E P T L L R R D D N A E L L R S K R A F V V S Q Q A K A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 4 2 B D E 6 A A R T F L Q Q K L L L S S A S E S E P T L L R R D D N A S E L L R S K R A F V V P Q Q S S T A T M H L P
U n i R e f 9 0 _ R 7 V 7 U 3 A R A V L Q Q E L L L S G V S C E E L K R G N V D L R S R R A F V V P Q M S S A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 4 4 3 D 9 6 1 A R R T L Q Q N L L L S H N E S T L R R D D N V S L L R S R A F V V S Q S S E A T M H L P
U n i R e f 9 0 _ H 2 Z 2 L 6 A R T C T I Q S L L L S T D N E P V T L R R D D M E L L R K K R A F I V A Q Q A F A T M H L P
U n i R e f 9 0 _ T 1 D L 7 5 A R T L Q Q K L L L S S K D E E V I L L R Q N D Y S L R E S R A L V H Q S Q V K M H L P
U n i R e f 9 0 _ T 2 M H A 4 A R A T L Q Q K L L L S S K D E A V L L R Q N D N A D L R S R K C L I S Q N K V T M H L P
U n i R e f 9 0 _ A 7 R Y 0 1 A R A T I Q Q K L L L S S K D D V P T L R K E N L E L R A K A F V I S Q Q K D A T M H L P
U n i R e f 9 0 _ U 6 P 0 R 2 A R K T L Q D L L L S A G N K T L L E R D D V D L R K A S A L V L Q S E A T M H L P
U n i R e f 9 0 _ E 9 F U V 4 T R A R I S E L L L R R H D T P R L R D D D A A L R A K A L T P R A D A K L H L P
U n i R e f 9 0 _ Q 0 7 T 6 5 U n i R e f 9 0 _ A 0 A 0 2 3 F J T 6 A R A Q V I Q K L L L A A N E S T L R R D D V T L L R T R A F V D Q R N S A A M H L P
U n i R e f 9 0 _ W 5 L L G 4 A R R Y L Q Q K L L L A A N E S T L R R D D V T L L R T R A F V D Q R N S A A M H L P
U n i R e f 9 0 _ G 4 Z Z 4 3 A R A T I Q R R L L L S A D D V P T L R R D D N A A V L R Q R A L I P L Q M V R M H L P
U n i R e f 9 0 _ U P I 0 0 0 4 1 5 D 7 D 4 V R A R L S E L L R E D H P E L R R D D N A V L L R Q R A L I P L Q M K V E M H L P
U n i R e f 9 0 _ U P I 0 0 0 3 C 1 7 6 7 C A R A V L Q R R L L L S A S E S E P T L R R D D N N E L L R N R A F V P Q D L A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 4 4 3 F 7 0 C A R A F L Q D L L L A E R S A Q L L R R D D N A G L R R S Q A F T A Q T A A T M H L P
U n i R e f 9 0 _ U P I 0 0 0 2 6 5 7 C 5 6 T R L N L Q R L L L S I D E S A P L R R D D N A P L R R Q Q A L I P I T Q V K M H L P
U n i R e f 9 0 _ H 2 R N J 9 A R K T L Q M L L L S A N E S T L R R D D V S L L R S S A F V N Q S V A T M H L P
U n i R e f 9 0 _ A 1 Z C H 2 V R N R L S E L L R D D D N A P E L R R D D N S E A K R Q V L Y P L Q M V Q M H L P
U n i R e f 9 0 _ A 9 U T I 2 T R A S L Q K I L L S S E A E G V L R R D D N A E L R K S A F V N Q S E A T M H L P
U n i R e f 9 0 _ V 3 Z Q L 8 A R Q T L Q Q K I L L S S E A E G V L R R D D N A E L R K S A F V N Q S E A T M H L P
U n i R e f 9 0 _ J 8 T P Q 6 V R H Q I Q Q L L L R E D E P T L R R D D N Q E L R S D K A L L S L A N V E L L L P
U n i R e f 9 0 _ B 3 R H Y 9 A R A T I Q R R L L L A A N E G I L R D D D G K L R S K C L Y S M A D V Q L H L P
U n i R e f 9 0 _ S 2 J A 1 6 T R L A I Q E I L L S A K D C S K L K R D N A E L V Q K A L I P L T S V K M H L P
U n i R e f 9 0 _ M 7 Y H 3 1 A R A T L Q Q K L L L S A D E P T L R R D D N E A L R K N C A I I P M S K V K M E M P
U n i R e f 9 0 _ A 9 S Z X 7 A R V T L Q K L L L S A D E P T L R R D D N E A L R K N C A I I P M S K V K M E M P
U n i R e f 9 0 _ A 0 A 0 2 3 X V 7 9 T R E R I S E L L L R H D H P E L R R D D N E E L R K Q V L V P M R D A R L H L P
U n i R e f 9 0 _ U 1 N M M 1 A R S V L Q S L L L S G K D K R L R R D D N L E L R A K A L V P R N E A M M H L P
U n i R e f 9 0 _ I 4 Z S 4 3 V R A E L Q T L L L S A D H A E L R R D D N Q E L R A D Q V F F N Q S D V K M H L P
U n i R e f 9 0 _ U P I 0 0 0 2 D 9 F 9 6 4 A R A K I Q R L L L S E Q E P A L L R R D D N D T L R A E A F R L Q S S E V E M L L P
U n i R e f 9 0 _ Q 1 3 C D 1 T R A R I S E L L L R H D S A E L R R D D N A A A L R Q Q A L T P L R E A K L H L P
U n i R e f 9 0 _ A 0 A 0 1 5 L 8 W 1 T R R R L Q S I L L L S H D S P E L R Q D N E E L R Q K A F V A Q Q S A K M H L P
U n i R e f 9 0 _ T 1 I H V 8 A R H L I T Q L L L S G D D A R I R R D D P E L L V A N A F V R Q S D A T M H L P
U n i R e f 9 0 _ D 8 R L Q 1 T R G T V Q K L L L S A D E P A L R R D D N A D L R K K A F F P L N S A K M E L P
U n i R e f 9 0 _ W 4 Y X P 1 A R A T L Q R L L L A A D E P T L R R D D N A D L R K K A F V P Q S S A A M H V P
U n i R e f 9 0 _ D 7 T R J 7 A R S T L Q Q K L L L S S T E A P T L R R D D N A S L R E K A L V P M N K V E M C H L P
U n i R e f 9 0 _ B 9 H C F 9 A R A T L Q N S L L S A D E A K L R R D D N P N L R R K A L V P M S K V E M L L P
U n i R e f 9 0 _ F 7 B Q 9 4 A R A K L Q S L L L S S D N A H L L R R D D N Q E L R R K R A F T P Q K E A V M H L P
U n i R e f 9 0 _ F 5 S S C 4 A R R T I Q D L L L S A D N A T L R R D D N E A L K Q K A L F N Q S A V S L H L P
U n i R e f 9 0 _ H 0 T K 7 9 T R V R I S E L L L R Q A D N P E L R R D D N K A L K E K A L L P R A N V T L H L P
U n i R e f 9 0 _ E 4 T S K 2 V R E R I S E L L L Q A D N Q E L R Q G N D Q A L K E K A L L P M D K A T M H L P
U n i R e f 9 0 _ D 5 A B T 0 A R G T I S K L L L S V D E P A L R R D D N A E L Q K S A L L P M S Q V Q L M L P
U n i R e f 9 0 _ B 3 Q B 9 6 T R A R I S A L L L R H D N P E L R R D D H A E L R A K A L L P M S Q V K L H L P
U n i R e f 9 0 _ U P I 0 0 0 3 4 8 F F B 4 V R T I Q S Q V L L S S E E P T L R R D D N E A L R N V A L L R Q G D I E L L L P
U n i R e f 9 0 _ A 0 A 0 5 8 Z W 5 4 A R A T L Q K I L L S S T E P V L R R D D N T E L R K K S L F P M D K V E M V L P
U n i R e f 9 0 _ K 7 I U Y 0 A R H T L Q N L L L S V E N Q T L Q Q P D A R S R K V F V A Q N K A T M H L P
U n i R e f 9 0 _ A 0 A 0 2 4 U W P 5 A R A T I K R L L L S V D E P T L R R D D N A D L R S R A L V N Q S A D V I M H L P
U n i R e f 9 0 _ L 8 H K F 9 A R K T I A R L L L S A D E A R L R R D D A D L R A A L V A Q S D V T M L L P
U n i R e f 9 0 _ I 1 F E 5 0 A R S T L Q R T L L S A N E G A L R R D D P L R N T A F V P Q S E A A M Y L P
U n i R e f 9 0 _ H 2 M Y W 6 A R R S L Q T L L L S T S E S K L R R D D V S L R S R A F V H Q S A A I M H L P
U n i R e f 9 0 _ W 1 P 2 8 3 A R A T I Q R L L L S A D E P T L R R D D N A S L R R E R S L F S M D Q V E L L L P
U n i R e f 9 0 _ U P I 0 0 0 4 7 D 8 2 5 0 V R N R L Q N L L L S S D E P V L R R D D N S T L R R D Q A F Y K Q K D V E M L L P
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A R V T L S Q K L L S A T D T E P T L L R D N D A A L R A K I A L L V R A M A D V Q M L L P
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V R I N R V S E L L L R N S D N E T I L S R D N D S N L M H A L L V R Q D E A R L H L P
A R S T L Q R R L L S S S E A T T L L R D N D N T V L R R K K S F Y Q M N K V E M V V P
T R R Q T L Q R R L L S S K N E A T T L L R D N D N T T L R R Q H A F Y Q Q M S D V V M H L P
V R N R I A D I F D V T N Q G L L R R D N D A E H K D Q Q V I F R Q M S D V E M Q L P
V R K T L Q S S L L S A E N T S P A L L R R D N D N T D L R Q R K A L F K Q D S I T T H L P
V R K Y L Q Q D V L F A E N T S V L L R Q R N K E L L R Q R K A L F R R Q D S V I T T H M P
I V R Q T L Q D D L L S A E N T S T L L R D N D H P E L L R Q K V L F K Q N T V T T H L P
V R T Q Y L Q S S V L L S A E N T P T H L K R D N D A S E L L R A K S A L T P A A E V T N H L P
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V R N T L Q R R L L L A A D E S P T L L R D N D H P L R R D A A L I R Q S E V E L L P P
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I R A E L Q T H L L S A A D N T P T L L R D N D H E L L R N Q Q V F F K Q V D V S L H L P
V R K Y I Q T T L F S D D T P H L K R D N D A K D L R E Q A L V P L K D I R A H L P
T R A R I S E V L L R H D N A E L L R D N D N A A L R A K A L M P M R D A K L H L P
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V D L A A L G S G L L E G E A L A A E A A S G P A L N P L L A L G T A T R R A
I F L G D L Q N S G F F G D I S L P N G I F M N S A T L N G Y A A L P K S V H T A
I F L H E C H T S S L F E G I D L P R T I F A D E S T L N H F A A L P K A T H R N
Y F L S D L I S H N L I G P F P P D T A L T N E S T L N A F A A L S T S T H Q E
Q H V F N E S S L N S F M A L G R P A W K E

