

QUERY 1 10 20 30 40
UniRef90_V7BM23 P S E T P A P L L V L K Y R E E E E L L K S L L R R G D G G R K G T G E R K E Y D R R Y D Y D V Y Y
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UniRef90_G7I850 L P S E T P A T L L L V Y Y R E E E E L L K T L L R R G D G D G K G Q L L Q E E W D R R Y D Y A Y Y
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UniRef90_B6D1W5 L P S E T P A P L L V K Y R E E E E L L V N L L R R G D G D G T G Q L L E E W D R R Y D Y A Y Y
UniRef90_B9I7S7 L P H E T P A P L R K Y R E E E E L L F H L R R G D G D G E G E L L K E W D R R Y D Y A Y Y
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UniRef90_E3NYV3 L P S N T P S G L K I Y R E K E L Q I L L R R G D G T G E R K T F E R I Y D Y D V Y Y
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UniRef90_F6GUA7 L P S Q T P R G L N S L R K K D L V S L L R R G D G G K G E R K T S D R I Y D Y D V Y Y
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UniRef90_K3YPS7 L P S E T P E G L S E L R K K E L E T L L R R G N G G H G E R K S F E R I Y D Y D V Y Y
UniRef90_I1KS01 L L S Q T P A P L K D L R R E E D L L S I L R R G T Q E H G Q R K Q H D R I Y D Y A T Y Y
UniRef90_S4U6N6 L S S D T P A G L K Q K F R E E E L L V N L R R G D G G E G E L Q E W D R R V Y D Y A Y Y
UniRef90_I1LQG7 L P Q E T P G G L R R L R A K E L S N L L R R G N G E G E R K S F E R I Y D Y D I Y Y
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UniRef90_V7AZR4 L P C D T P G G L R V L R E K E L I S L L R R G D G K G V R K L S D R I Y D F D T Y Y
UniRef90_D8SDE9 L P K D T P A G L V D A R N Q E L L N L L R R G N G T G E R K V W E R I Y D Y A T Y Y

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UniRef90_V7BM23 F E S A F D L K S T P D E F H S F Q D V H D L Y E G G G V K L P R D V I S T I I P
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UniRef90_E2GI9 F E S L F D D S T P T E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
UniRef90_I1LBB9 F E S L F D D S T P T E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_W9S6G6 L K S L L D K T T N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_A0A022QIY1 F E A L F D K T P N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_I1KH70 E N T A F G F N K T I N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
UniRef90_Q9M684 L T D A F D G S L L S L E F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
UniRef90_Q06327 L E A V F D D T P K E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_UPI00042B594E F E L K F F S N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_M1CAP8 L E S L G N I N L T P N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
UniRef90_F8UZ02 L E A Y V N L S T P N E F F D D S F E E D V L K L Y E G G G V K L P R D V I S T I I P
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UniRef90_B9S3S5 I A T R I V D T D L G F P N F T A I D S L F K G G V L L P P K G T N K S V G A
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250 260 270 280

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

QUERY UniRef90_V7BM23 UniRef90_W9QWU1 UniRef90_G7I850 UniRef90_O04919 UniRef90_W9RJG5 UniRef90_UPI0002C2FC12 UniRef90_E2GI19 UniRef90_I1LBB9 UniRef90_UPI0002C32587 UniRef90_W9S6G6 UniRef90_UPI0002B46850 UniRef90_V4SFY9 UniRef90_A0A022QIY1 UniRef90_B6D1W5 UniRef90_B9I7S7 UniRef90_M1D4M7 UniRef90_I1KH70 UniRef90_Q9M684 UniRef90_Q06327 UniRef90_UPI0002B4915A UniRef90_P38416 UniRef90_UPI00042B594E UniRef90_G7LIZ2 UniRef90_G9L7U0 UniRef90_M1CAP8 UniRef90_F8UZ02 UniRef90_UPI0002B43B03 UniRef90_M1CAQ0 UniRef90_V7ASA9 UniRef90_Q9FEQ3 UniRef90_UPI0002C31A2B UniRef90_Q9M463 UniRef90_B7FDE5 UniRef90_C4NZX3 UniRef90_G7ID71 UniRef90_M0U1N2 UniRef90_V4U565 UniRef90_B5TX61 UniRef90_A0A059B6Q4 UniRef90_M0UAM8 UniRef90_ROHW05 UniRef90_Q53RB0 UniRef90_Q4FCM5 UniRef90_A0A022RRH2 UniRef90_V4TFS9 UniRef90_G8XQN3 UniRef90_S8D0X1 UniRef90_UPI00042B3097 UniRef90_A0A059ABX3 UniRef90_Q76I22 UniRef90_B9S3S5 UniRef90_E3NYV3 UniRef90_U5GTE9 UniRef90_B9HPT1 UniRef90_UPI0002B4173A UniRef90_F6HDN6 UniRef90_UPI0002B4AD61 UniRef90_D5FUD8 UniRef90_S8CRL2 UniRef90_UPI00042B3A3C UniRef90_G9B4U5 UniRef90_M5W1M2 UniRef90_S4U6N5 UniRef90_UPI00032A9371 UniRef90_M0S2A5 UniRef90_W0TKQ9 UniRef90_UPI0002C35A12 UniRef90_B9RI74 UniRef90_M5X772 UniRef90_W9RBN8 UniRef90_A0A022S0K8 UniRef90_K7LP14 UniRef90_W9QY99 UniRef90_F6GUA7 UniRef90_UPI0002C33945 UniRef90_K3YPS7 UniRef90_I1KS01 UniRef90_S4U6N6 UniRef90_I1LQG7 UniRef90_P29250 UniRef90_UPI00032A9B9D UniRef90_B9RI72 UniRef90_W1PUB1 UniRef90_UPI00042B615E UniRef90_Q9FNX8 UniRef90_I1HYA9 UniRef90_UPI0002B4B02B UniRef90_W1Q0V6 UniRef90_M1CAP3 UniRef90_V7AZR4 UniRef90_D8SDE9

330 340 350 360

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

QUERY F V I L A T H R R Q L S S V L H H P I Y K L L L T P H Y R N N M N I L N A L A R Q R S L I N A
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QUERY N G L I E T T F L P S K Y S V E M S S A V Y K N W V F T D Q Q A L P P A D L I K R G G
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QUERY	490	500	510	520
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UniRef90_G7ID71	S F Y Y T S D D M I E N D Y E L	Q F W W K E V R E E F G H G D L K D	R S W P V M	
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UniRef90_UPI00042B3A3C	S F Y Y K S D A M V Q Q D P E L	Q A W W K E L R E R G H G D K K D E	P W W P S M	
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QUERY
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570 580 590 600
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M S R R R F L P E E K G T Q E E Y N E E L L K E N D P E K A F L R K T T I I T A Q L L P T L I S L S
L S R R R L L M P E E K G T T E E Y D E E L A T N P P D K A F L R K T T I I T A Q L L P T L I S L S
V S R R R F M P E E K G T P E E Y D E E L Q S N D P D K A F L R K T T I I T A Q L L P T L I S L S
V S R R R F M P E E K G T P E E Y D E E L E S N D P D K A F L R K T T I I T A Q L L P T L I S L S
I V S R R F M P E E K G T P E E Y D E E L V J A N P D K A F L R K T T I I T A Q L L P T L I S L S
V S R R R F M P E E P G T P E E Y F A E L E S D P D A A F L R K T T I I T A Q L L P T L I S L S
I L S R R K F M P E E E G T P E E Y K E L E S N P E K A F L R K T T I I T A Q L L P T L I S L S
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K S R R R F M P E E K G T A E Y A E L S K D Y Q K A Y L R K T T I I T A Q L L P T L I S L S
M S R R K W I P E E G S K E F A Q L V E K P D L F L L N T L S N Q L Q T T L I G I S T A
L S R R R F M P E E K G T P E Y A E L E K N P E K V F F R T M S S Q L Q S T L I T V I T S
M S R R R F M P E P E T S E Y E E L K S N P E K A F L N T I I T P L P Q S T L I G I S S
L S R R R F I P P G T K E Y D E M V K S P K A Y L Q T I I T P K Y Q E T I I D I L S
H S R R R F M P E K G T P E E Y D E M V K S P K A Y L K T I I T S K Y Q T L I D I L S
I S R R R F M P K I G T P E E Y E Q L K K N P E K A F L E T I I T P Q L Q T L L G M A S
V S R R R F M P E Q G T P E E Y E E L E S D P D L A Y L R K T T I I T A Q L L P T L I S L S
T S R R R F M P E V G T A E Y K E V E S N P E K A F L R T I I T A Q L L P T L I S L S
I A R T K M P T E G T P T E W K C F I N K P E V A L L M C F P S Q I Q A T K V M A
V S R R R F M P E Q G T P E E Y E E L E S D P D L A F L R K T T I I T A Q L L P T L I S L S
L S R R R F M P A P G T P E E Y E E L K A H P D K A F L M T I I T A Q L L P T L I S L S
T A R C N I E D P S D E Q W K F F L J E K P E N A L L N T T F P S Q I Q A T K V M A
V S R R R F M P E A G T D E Y A E L E S N P D L A F L R K T T I I T A Q L L P T L I S L S
M S R R L I P E E G T P E E Y A E L E S N R R E R A L L K T T I I T A Q L L P T L I S L S
V S R R R F M P E P G T P E E Y A E L K K N P D K V F L R K T T I I T A Q L L P T L I S L S
I S R R R P M P E P G T E E Y A E L A E D A D V A F L R K T T I I T A Q L L P T L I S L S
I S R R R F M P E P G T P E E Y A E L L E R D G D E A F I H H T I I T A Q L L P T L I S L S
V S R R Y M P E V G S A E Y A E L E K D P D L A F L R K T T I I T A Q L L P T L I S L S
V A R T K M P D P S D E D W K F L F L E K P E D V L L L C F P S Q I Q A T T V M A
V S R R R F M P E P D T P E H A E L E K D P D L S F L R K T T I I T A Q L L P T L I S L S
I S R R R F M P E K E G T P D D Y E E L E K N P D K V F L R K T T I I T A Q L L P T L I S L S
I A R R N M P T E E D K D W E F F M N K P E V L L L L S F P S Q I Q A T T V M A
I A R T N M P D P K E E E R K L F W D K P E V T L L T C F P S Q I Q A T K V M A
I S R R P M P E P G S K E Y T E L D E N P E K F F I R T I I T S Q I Q A T L L G V S
I A R T N M P N E D P I S K E Q F I N K P E I T L L R C F P S Q I Q A T Q V M A
I T R T N M P T E D P N E K E E F L K K P E E F I L K C F P S Q I Q A T I I M A
L M R R L I P E E N D P E Y A N F L A D P Q K Y Y L L A L P S L L Q A T K F M A
I A R T N M P T E S P E E Y W K F L F L K P P E L S L L K C F P T Q L Q A T K V M A
V S R T F M P E V G S K E Y K E L E S C P E K A F L R T I I N S Q L Q C L L G M S
I S R R R F M P E P G T P E E Y Q E L E R N P D L A F L R K T T I I T A Q L L P T L I S L S
I S R R H M P E V G S A E Y K E L E S K P E K A Y L K T M N S M L Q T L L G V S
I A R T N L I S E D P T E W R R F L H K P E D E L L A C L P T Q L Q A A K V L T
L S R M F M P E K G S E Y A E L E T N F E R V F L K I V T S Q L M T L L G V S
M S R R R F I P K E N K I D Y E E L E K N P D R A F L R K T V T P Q L Q S L L G I S
I A R T N M P T E D P E F W K S F L K K P E V A L L R C F P S Q I Q A T T R I M A
I A R N M P T E D P Q E W E L F L E K P E V T L L N C F P S Q I Q A T T V M T
I S R R F M P E S G T P E Y H E L E K N P D L A F L R K T I I T S Q F Q T L L G V S
L M R R L I P D E S D P E Y A S F Q A D P Q R Y F L N A M P S L L Q A T K F M A
I A R T N M P D P S D E D Y K T F L A K P E T A L L N C F P S K I Q A T T V M A
T A R L K M P S E D P T D W K M F A E K P E V V L L N T T F P S Q I Q A T K V M A
I A R T N M P T E D P S D E A F F L E K R P E M T L L N C Y P S Q I Q A T Q M M V
I A R T N V I T E K P E E W K Y F L E K P E G T L L Q C L P T K I Q A T K V M T
I A R T Q M P T E D P A N D T K Q F M E R P E E F L L K S F P S Q I Q A T T I M A
I A R N M P D P S D A E W L F L E K P E V I M L K C F P S Q I Q A T T V M T
I A R S N M P T E D P T E W Q K F L E K P E S A L L K C F P S Q L Q A T T R V M A
I A R I N M P C E D P T K E E W K Q Y P D S E L L V C F P S Q I Q A T K V M A
L M R R L I P E E T D P E Y A N F L A D P Q K Y F L S A L P S V L Q A T K Y M A
V I R K N M P V I E R D D E M K R F L D Q P E G T L L D M L P T Q M Q A T T V M T
L M R K L I P Q E N D P D Y E K F L Q N P Q L V F L S S L P T Q L Q A T K V M A
L S R R R F M P E E G T P E E Y E E L R T N P D K A F L R K T F A P Q L P T L L G M A
I A R T K M P S E D P T E E E W F I E K P E R A L L K C F P S Q L Q A T R V M A
V S R R R P M P E P G T K E Y D E L A R D P E K V I V R T I I T K Q M Q A T V G I S
I V R N K M P T E D P E E W E K F I N K P E Q I L L E C F P S Q I Q A T L V M T
I A R K K M N E D P T E E D W F L H K P E A V L L A T F P T K L Q A T T V V A
I A R N N L I N E S C A E E F K R F L E K P E T A L L S F P S Q L Q A T K V M T
I A R T K M P T E S D E E W K F F L D N P E A V L L E C F P S Q M Q A R V M A
L M R R L I P D E S D P E F T S F I E D P Q K Y F F S S M P S L L Q T T K F M A
V V R K N I P E N K E D E M R K F M A R P E E V L L Q S L P S Q M Q A T K V M A
I A R I N V I D N V E W E Y F I N K P E N E V L L E T F P T Q L Q A T K V T A
L T R K L I P Q E D H P E Y Q I L L T H P E D F F L S S L P T Q L Q A T K I M A
L M R R L I P E K K S E K K A N F M A D P E K Y F L N A L P S L L Q A T K Y M A
A T H R E I P R E G S E E H K Q L L K D P E N F F L S A V S T K A E A T S V M T

QUERY UniRef90_V7BM23 UniRef90_W9QWU1 UniRef90_G7I850 UniRef90_O04919 UniRef90_W9RJG5 UniRef90_UPI0002C2FC12 UniRef90_E2GI19 UniRef90_I1LBB9 UniRef90_UPI0002C32587 UniRef90_W9S6G6 UniRef90_UPI0002B46850 UniRef90_V4SFY9 UniRef90_A0A022QIY1 UniRef90_B6D1W5 UniRef90_B9I7S7 UniRef90_M1D4M7 UniRef90_I1KH70 UniRef90_Q9M684 UniRef90_Q06327 UniRef90_UPI0002B4915A UniRef90_P38416 UniRef90_UPI00042B594E UniRef90_G7LIZ2 UniRef90_G9L7U0 UniRef90_M1CAP8 UniRef90_F8UZ02 UniRef90_UPI0002B43B03 UniRef90_M1CAQ0 UniRef90_V7ASA9 UniRef90_Q9FEQ3 UniRef90_UPI0002C31A2B UniRef90_Q9M463 UniRef90_B7FDE5 UniRef90_C4NZX3 UniRef90_G7ID71 UniRef90_M0U1N2 UniRef90_V4U565 UniRef90_B5TX61 UniRef90_A0A059B6Q4 UniRef90_M0UAM8 UniRef90_ROHW05 UniRef90_Q53RB0 UniRef90_Q4FCM5 UniRef90_A0A022RRH2 UniRef90_V4TFS9 UniRef90_G8XQN3 UniRef90_S8D0X1 UniRef90_UPI00042B3097 UniRef90_A0A059ABX3 UniRef90_Q7I622 UniRef90_B9S355 UniRef90_E3NYV3 UniRef90_U5GTE9 UniRef90_B9HPT1 UniRef90_UPI0002B4173A UniRef90_F6HDN6 UniRef90_UPI0002B4AD61 UniRef90_D5FUD8 UniRef90_S8CRL2 UniRef90_UPI00042B3A3C UniRef90_G9B4U5 UniRef90_M5W1M2 UniRef90_S4U6N5 UniRef90_UPI00032A9371 UniRef90_M0S2A5 UniRef90_W0TQK9 UniRef90_UPI0002C35A12 UniRef90_B9RI74 UniRef90_M5X772 UniRef90_W9RBN8 UniRef90_A0A022S0K8 UniRef90_K7LP14 UniRef90_W9QY99 UniRef90_F6GUA7 UniRef90_UPI0002C33945 UniRef90_K3YPS7 UniRef90_I1KS01 UniRef90_S4U6N6 UniRef90_I1LQG7 UniRef90_P29250 UniRef90_UPI00032A9B9D UniRef90_B9RI72 UniRef90_W1PUB1 UniRef90_UPI00042B615E UniRef90_Q9FNX8 UniRef90_I1HYA9 UniRef90_UPI0002B4B02B UniRef90_W1Q0V6 UniRef90_M1CAP3 UniRef90_V7AZR4 UniRef90_D8SDE9

610 620 630 640

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

QUERY	650	660	670	680
UniRef90_V7BM23	AQI	RR	V	V
UniRef90_W9QWU1	REE	NR	V	V
UniRef90_G7I850	VEI	NR	F	G
UniRef90_O04919	AEI	NR	V	G
UniRef90_W9RJG5	GEI	NR	V	G
UniRef90_UPI0002C2FC12	AEI	NR	V	G
UniRef90_E2GI19	SKI	NR	T	G
UniRef90_I1LBB9	ADI	NR	Y	G
UniRef90_UPI0002C32587	AEI	NR	V	G
UniRef90_W9S6G6	VEI	NR	V	G
UniRef90_UPI0002B46850	AEI	NR	V	G
UniRef90_V4SFI9	AEV	NR	V	G
UniRef90_A0A022QIY1	VQI	NR	S	G
UniRef90_B6D1W5	REIV	NR	V	G
UniRef90_B9I7S7	AVI	NR	V	G
UniRef90_M1D4M7	VDI	NR	N	G
UniRef90_I1KH70	KEI	NR	N	G
UniRef90_Q9M684	AEI	NR	T	G
UniRef90_Q06327	KEI	NR	T	G
UniRef90_UPI0002B4915A	GEI	NR	V	G
UniRef90_P38416	SDI	NR	S	G
UniRef90_UPI00042B594E	VQI	NR	V	G
UniRef90_G7LIZ2	AEI	NR	Y	G
UniRef90_G9L7U0	KEI	NR	S	G
UniRef90_M1CAP8	TEI	NR	M	G
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K L P L P N I V S Q E N R E G I L L K Y E T P K I L S R K D R F A W L R R D D E E F A R Q Q
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S V I P R L I V A N D S Q D N I L L R F D T P E T I K S R D R F F W F S D D E E F A R Q Q
P Q F I K S L L T V V G D H L L L N L P L P H V I K D R D L Y A W R S D D E E F A R Q Q
P R L I K T V S E E T H S I L R F E T P E T L K D R D K F F W L R R D D E E F A R Q Q
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L F D V H E L C G S G F E H S F P V P H V I R V S K S A W M T D D E E F A R Q Q
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L P W I F K L I Y E T G E F L R F R Q I P E P M D R N K F F W L S D D E E F A R Q Q
S Q M L K E M F R T D G E R G L R F D P M P H V I K E D R S A W R S D D E E F A R Q Q
L P M P H V V K T I Q Q G N L L K Y Y D V P K I L S H D K Y A W L R D D E E F A R Q Q
N F S V P K V I Q V D H S A W M T D D E E F A R Q Q
D L P I P D S I R E V I R S L L K Y P Q P K I L S K D R F A W M R D D E E F A R Q Q
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M L A G V N P V F C I Q R R L T E F W P L V K S S K L L D D P N I V I Y G G P Q V E S S A T T T A D D Q I Q E N
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T L A G L N P Y S I E L V T E W P L K S S K L L D P E I Y G P P E S S L I T T E L V E
T I A G L N P Y C I Q L V T K S W P L K S E L L D P V E Y G P P E S A F T T E L V Q M
T L A G L N P C A I Q L V T K S W P L K S E L L D P A I Y G P P E S A T T T E R V M
V L A G V N P V A I E R V R E F P I R S A L D T T S Y G S S L S A I T A S H I E
T L A G L N P Y C I Q R L V K S W P L K S E L L D P Q D Y G P Q E S S G F T T E L V Q
M L A G I N P T R I R Q L Q R F P P E G K H G Q S T I K V S D I E P N
T L A G L N P Y S I R R L V T E W P L K S S K L L D P S I Y G S P E S A I T D E I V E
T L A G L N P C V Q A V K E F P P K S S L L D P S K Q W G P A T A L T R E K D L P Y
T L A G M N P L S I E R L K V F P P V S S K L L D P S I H G P Q D S A L T E E H C H
T L A G V N P L S I Q L V R E F P P V S S K L L D E K I Y G P A D S S L I T K E V I E
A V A G I N P V S I E R L Q A F P P V S S L D S E L Y G P P E S S A I T E A H I Q
M L A G L N P V T I K R L Q A F P P V S S L D S E L Y G G K K S S I T A A H I E
T L A G L N P V V I Q A L T Q Y P K S T L P E D V Y G N S V L T D E H I L P Y

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

300
E E L S L P P T K I G D
E E L S L P P P T A G P
E E L S L P P P T P V T S S A R N K R I V F T P
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310
320

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UniRef90_I1M240 P L D A T S H W L W Q I A K A H V C S N D A G V H H Q L V S H H W L R T T H A A C M E M E P P
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	450	460	470	480
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UniRef90_W9QWQ0	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_COPT31	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_K4BYJ7	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_V7BNL6	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_B9GMA5	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_V7AS97	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_UPI0002B47E60	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_W9QX55	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_S8EN84	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_Q14ST8	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_A9SEG6	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_R9WTS6	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_G3GC08	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_B8BCA6	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_B8BCA6	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_V4TFT4	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_I1LWA1	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_J3MFV3	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_M1AD08	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_Q9XFL9	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_J3LAI4	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_V4W091	MAVVE	DDPTAK	HGGL	KLTL
UniRef90_V7C680	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_Q9FEN8	MAVVE	DDPTAK	HGGL	KLTL
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UniRef90_M0RJ28	MAVVE	DDPTAK	HGGL	KLTL
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I I M R K L I P E N E T D D P E E Y K S N F L L S S S M P T Q L Q A T K T M A
I I R N K M P T E D D P E E S W E K F V N K P E E Q T L L E S F P S Q I Q A T T M M V
V S R R Q K M P V P G T P E E Y D T Q L E R G K D E E A A L L E H T I P S Q Y L Q S T L G L T
F T R A K M P S E D P T E E D W F L E R K P P E E A A L L E C L P S Q I Q A T R A M A
L T R R K L I P D P G T K E E Y N E L S T N F H E K A Y L K T I T T K K H E A L V N L S
L S R R R F M P K K G A D E E Y A E L L E S H F P E Q E T F F H T I T T A K P L A L L G I S
A S R R R P M P E P K G T P E E Y T D E M E K N P P E K A Y L L R T I T P K Y E T L V D L S
I A R I K M P T E D D P T D E D W F L E K P P E S V L L E T T Y P S K L Q A T T V I A
L S R R R L T P E K G T P E E Y T D E M E K N P P E K A Y L L R T I T P K Y E T L V D L S
L M R R L I P E P T D P E E Y T D E M E K N P P Q R Y Y L S A L I T P Q V L Q S T S F M A
I A R T N M P T E D D P T L W K S F L E K P P E D L L L N A F P S Q Y Q A T Q V M F
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L M R R L I P E E E S D A E E Y A F F M S T P H K Y F L S A L I T P S L I Q A T K Y M A
K S R R F M P E E E G S P E E Y E E L A K D Y P E K A Y L S T T I T P K N E T L L N M T
L A R K F V P E V D G P E E Y F K D L L K D P P K K Y F M L Q S T L P N Q E Q S T V L M M
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I A R N K M P T E D D P T E E W K F L N K P E E Q T L L E C F P S Q I Q A T L F T V
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L M R R L V P A E G D P E E H A H L V A D P H R F Y L S A L P S L T Q T T T F M T
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D K L E K T I D Q R N E N M E L L K N R R G A G L V P Y E V L L K P T S G F G V T T
M E L E G I I D E R N N A D K L L K N R N G A G V V P Y E L L L K P P T S G R G V T T
R K I E K M I A K R N N Q E K R L L K H R H G P A Q V P Y E L L H P P S S S E P G V T T
D K L E K T I D Q R N N E S E L L K N R R G A G L V P Y E V L L K P P T S S G G I T T
K E I E N K I S E R N A N P M F R N R R G N A K I P Y N L L H P P D S K G G I T T
Q N L E V I I D E R N A N P N L R N R H G A A G I G P Y Q L L L K P P F S E P G V T T
E A L Q R K I E Q R N A D P K L L N R S G P A N V P Y T L L Y P P S S S E G L T T
R R I E K E I E K R N A D P K L L R N R C G A G V S P Y E L L L P S S S P G A T T
L K I G V Q V N K W N R D P E R K N R C G P G M V P Y V Q L R P S D G D T V M
A A A E E E I K K R N V D P T R R N R C G A G V L P Y E L L A P P S S P P G V T T
R R V E K R V A E R N K D P R L R N R M G P V K V P Y T L L F P D V E K G L T T
E A L Q S E F E K R N S D S T K R N R S G P A K V P Y T L L Y P K S G P G L T

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L P C E T P G V K E L R E K E L K Q L R G D G W G L R V S S D R I Y D Y D V Y
L P L D T P S G L V K L R T R E L A S I R G N G S G V R V N G E R I Y D Y D V Y
L P S E T P E P L R K Y R E N E L V T L R G D G T G K L E E W D R V Y D Y A Y Y
L P Q D T P P S L V P Y R E A D L K Q L R G N G T G I R Q H S E R I Y D Y D I Y
L P H Q T P A A M V E L R R E E L H S L R G D G R G E R K E W E R I Y E Y D H Y
L P S Q T P K G V E K L R K S E L E A I R G S G H G E R T A H E R I Y D Y D V Y
L P S K T P G G M K K L R H S E L L D I R G N G T D E R K P H D R I Y D Y D V Y
L P D K T P E A L R L R E E E L R S L R G N G R G E R K D W E R I Y D F D Y Y
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E T P S A L L K Y R E D E L G A L R G D G E T P F Q P W D R V Y D Y A L Y
L L G K T P R G L V K L R E E D L A N L R G D G R N E R K A F E R I Y D Y D L Y
L P E R T P G G L L K L R A E D L S N L R G I D M N E R K A F E R I Y D Y D F Y
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UniRef90_A5C523 N G I I E K I L F T Q E I S M E L S S A I Y K R D W R F D E Q G L P A D L I K R G
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UniRef90_UPI00042AD81C C G I F D L V V S T G G G H V D I L Q R A T A C L T Y R S F C P P P D D L A D R G G
UniRef90_B5X0R4 E G V F T K F A A G G E G M I E I L R R S V A S L T Y S S L C L P E D L T A R G G
UniRef90_G5B5F0 G G L S A R A M S L G K G F A E V M V R A S E L T Y D N L C V P E N D F M A R G G
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UniRef90_UPI00006A1F26 G S D F D Q F A A T G K G G V P L F A K A M T I L T Y S A L C L P P D D I E S R G G
UniRef90_UPI0003C92103 G T L I D Q S T S L G K G C L E L I T K G L E A V T Y R S L C L P H Q L A D R E G
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	450	460	470	480
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UniRef90_V4LU46	L A V E D E T A E H G V R L M I	L P T Y P F A N D D G L L M L	V	
UniRef90_H2UDI3	V H R K Q D	L P T Y F Y R D D D G L K V	W E V T Q S F V S D V L	
UniRef90_H2S191	M D S	K E E L	P T Y F Y R D D G L K V	W E A T K S Y I E V V
UniRef90_B1PYN9	M A I E C E D G E	L E L T I	E D Y P Y A N D D G L L	W D S I K E W V S E D Y V
UniRef90_H0WL19	M D S K E D		L P T Y F Y R D D D G L L	W E A I K T F V T A E V V
UniRef90_UPI0003334419	V E D		I P G Y Y R D D G M Q I	W G A V K S F V S D I V
UniRef90_R4GAL6		S A V	A N Y Y R D D A T K I	W A A I E F V R D M V
UniRef90_F1R442	V H D Q E D		L P N Y Y R D D G M L V	W E A V K S F V S E D V V
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UniRef90_UPI0002B491A2	V A V E D P S S P N G V K L L L		E D Y P F A V D G L E I	W S T I K T W V T N Y C
UniRef90_UPI00033436A4	V E D		L P G Y Y R D D G M K I	W G A V E C F V S E I I
UniRef90_UPI0004571F19	V E S S E D		L P Y Y Y F R D D G L K V	W D A V Q G F V T E I V
UniRef90_Q10EG7				
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UniRef90_UPI0003503872		M D S K E D	L P Y Y Y R D D D G L K I	W E A I K S F A E D V I I
UniRef90_UPI0003C8471C	V E D		I P G Y Y R D D D G M K I	W D A V E R F V S E I I
UniRef90_K7FKD0	V D D		L P N Y Y R D D D G L K I	W S A I E S F V S G I V
UniRef90_UPI0004419B5F	V S S		L P N Y H Y K D D G L K I	W A A V E S F V S G I V
UniRef90_UPI0003504158	V	S F	L P N Y H Y R D D G M S L	W E A I K R F V S G M V
UniRef90_F6HB90				
UniRef90_R4GBA5	V S S		L P H Y Y F Y K E D G L K I	W A A V E S F V S G I I
UniRef90_UPI000441E335	V A S		L P N Y Y F R D D G M K I	W S A I E K F V S G V V
UniRef90_UPI000441E335	V A S		L P N Y Y F R D D G M K I	W S A I E K F V S G V V
UniRef90_H0WJR0	V	L A	L P N Y H Y R D D D G L K I	W A A I E S F V S E I V
UniRef90_S9XU85	M D S T E D		I P Y Y F Y R D D G L L	W E A I K T F T A S E I V
UniRef90_UPI000203AAE2	V S S		L P H Y Y Y K E D D G L K L	W A A V E S F V S G I I
UniRef90_M4ACF3	L K D		V P N F Y Y R D D A L R V	W D A I N R F V S Q G I L
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UniRef90_G1U492	L L	L G	V P S A L Y A H D A L R L	W E I I T R Y V E G I V
UniRef90_UPI0002A47DDD	V T Q		I P N Y F Y R D H S L R L	W D A I H S F V T G M V
UniRef90_UPI000388C1D7	V D C		I P N Y Y R D D D G L K I	W L A I E S F V S G I I
UniRef90_F7F9J1	V Q C		L P N Y Y R D D D G M K I	W E A I E K F V S E I I
UniRef90_UPI0003336DB8	L L	L G	L R G A V Y A H D A L Q L	W G M I A R Y V E G I I
UniRef90_M3VWH8		L G I	P S A L Y A H D A L R L	W E I I A R Y V Q G I V
UniRef90_Q8K4F2	V G D		I P G Y Y R D D G M Q I	W S A I R S F V S E I V
UniRef90_G3U763	V	L A	L P N Y H Y R D D D G L K I	W G A I E S F V S E I I
UniRef90_UPI0003343952	L L	L G V	K S C Y Y A Q D A L R L	W E I I L G Y V K G I L
UniRef90_I3J7M6	V S S	S Q L	P N Y Y F Y K D H S L M L	W E A I H S F V S G M V
UniRef90_H9GA86	L L	L G	L P H Y Y Y K E D D G L K L	W A A I Q S F V S G I I
UniRef90_UPI0003C8E9E9	L L	L G	L P S A L Y A H D A L R L	W E I T A R Y V D G I I
UniRef90_W5PQ76	L L D V K S S		L Y G Q D A L R L	W G A T S R Y V E K M V
UniRef90_UPI0003C25D0D	V	E N L	K N Y Y F R D D A L K I	W E A V E S F V S G I I
UniRef90_G3TIG3	L L	L E V	K S C Y Y A Q D A L R L	W E I T F R Y V S E I V
UniRef90_W5QBT2	V L D		I P N Y H Y R D D G L K I	W A A I E S F V S E I V
UniRef90_W5N9Q5	V T R		L R D Y F Y R E D S M M L	W D A I Y S F V S E M V
UniRef90_V9KL88	V G S		L R D Y Y R D D G L L	W A A I R K Y V E S V L
UniRef90_G3NLB8	L E D		V P N F Y R D D G L K L	W G I I H R F V N D V L
UniRef90_H0WPR2	L L	L G I	P S A L Y A H D A L Q L	W E I I A R Y V E G I V
UniRef90_UPI00046C2E6B	V A S		L Q N Y Y K D D G L K I	W A A I E S F V S G I V
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UniRef90_B5X0R4	L E S	V	P N Y Y R D D G L K L	W D I I Y R F V E E V I
UniRef90_G5B5F0	V Q D	L V	P G Y Y F R D D S L A V	W D A M E R Y V T E D I I
UniRef90_UPI000443E818	V	L G V	P G S A L Y A Q D A L R L	W N I T A R Y V K G T V
UniRef90_I3N674	L L	L E V	K S S Y Y A Q D A L R L	W E I T R R Y V E G I M
UniRef90_UPI00006A1F26	V	E F	L P N Y F Y R D D D G M K I	W Q A V K S F V A N I V
UniRef90_UPI0003C92103	V Q D		L A R Y Y R E D G L Q I	W A A I E S F V T D I V
UniRef90_Q9ARI1	M A I E D S S C P N G L R	L V I	E D Y P Y A V D G L E I	W D A I K T W V Q E Y V
UniRef90_F6U085	L L	L G I	P S A L Y A N D S L R L	W E I I S R Y V Q G I V
UniRef90_W5FMV4	M A V R G E D G K	L E L A L	E D Y P Y A T D G L M V	W D A I K Q W A S D Y V
UniRef90_I3MFX7	L L D V K S S		L Y G Q D A L R L	W K I I N R Y V H G M V
UniRef90_E2RT88	V K D		I P N Y Y R D D D G L K I	W G A V E S F V S E I I
UniRef90_UPI0004406F60	V	L V I	P N Y H Y R D D G L K I	W A A I E S F V S E I I
UniRef90_UPI0003D73848	M A A E D P C S P H G L K L T	I	E D Y P Y A K D D G L D L	W D I L K K F V S N D Y V
UniRef90_G3WL78	V Q		G L A N Y H Y R D D G L Q I	W D A V E S F V S N I I
UniRef90_I3M1K8	V E D		I P N Y Y R D D G M Q I	W G A V E R F V S E I V
UniRef90_UPI00042BECC6	V G D		I P G Y Y R D D G L Q I	W G A V E S F V S E I V
UniRef90_UPI0004444BA9	L L	L G V	P S S Y Y Q D A L Q L	W N I M H S Y V K G I M
UniRef90_UPI0003C2B114	V S S		I P N Y L Y R D D G L K I	W E A I K S F V S G I V
UniRef90_H3DKZ7	L E S		L P G F Y R D D G L K L	W N I I N S F V R S G I V
UniRef90_G3WKY8	V Q D		V P R Y Y R D D C L A V	W E A I L E T Y V S E I I
UniRef90_I3JSJ4	L K D		V P N F Y R D D G L Q L	W E I I S R F V K S T L
UniRef90_W5KWV0	V T		K L K K Y F R D D S L M L	W D A I H K Y V S S M V
UniRef90_UPI0002C47055	V Q D		L P Q Y Y R D D S L A V	W D A L E R Y V T E I I
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UniRef90_BOFFI4	V A V P D S S Q P Y G L K L L I		E G Y P Y A V D G L E I	W E A I E A W V D D Y C
UniRef90_F6XZP5	V E S		I P N Y F Y R E D G M R I	W R A M E S F V S D I I
UniRef90_UPI000329ED4C	V	E A V	I P N F Y R D D G L K V	W D I T H R S V S Q G M L
UniRef90_UPI00045E36E3	V E D		I P G Y Y R D D G M Q I	W G A V E R F V S E I I
UniRef90_M4ALZ4	L E D		V P N F Y R D D G L K L	W N I I Y S F V K E T L
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UniRef90_H9GA71	V S S		L P H Y F Y K E D G L K L	W A A V E S F V S G I I
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UniRef90_H2UDI3 K T L E E L T E Y L T I V I F T A S A Q H A A V N F G Q Q Y D W C S W I P N A P S
UniRef90_H2S191 K T R E E L T T Y L T V V I F T A S A Q H A A V N F G Q Q Y D W Y S W V P N T A P S
UniRef90_B1PYN9 N C H G S L V E V L T T I I W V I A S G H H A A V N F G Q Q Y P Y A G Y F P N N R P T
UniRef90_H0WL19 K S R E K L S E Y L T V V I F T A S A Q H H A A V N F G Q Q Y D W C S W I P N T P P
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UniRef90_UPI0004442ECA G G A L S E S S L G V E G L M E L M R R D L S Q L T Y Y S S L C L P E N D I K E R R G
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UniRef90_UPI000273DFC2 G G I F D K A V S G G G G H V Q L L R R A A A Q L T Y R S S L C L P D D I A D R R G
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UniRef90_H2LQV2 N G S F T Q F S A G G E G M L T I L L R R S L S A V T Y S S L C L P T D D I A E R R G
UniRef90_UPI0003314874 N G V F D Q V V S G G G G H V E L L K K A G A F L T Y R S S F C L P D D L A D R R G
UniRef90_G1QCE1 M G V F D Q V V S G G G G H V E L L K R A R T S L T Y R S S F C L P D D D L T D R R G
UniRef90_UPI0003EAAFE7 C G L F D K A N A G G G G H V Q L V Q R A M K D F T Y Q S M I F P E A I K L R E R G
UniRef90_UPI0002740B81 G I F D Q V V S T G G G G V E L L F K R A G A F L L N Y S S D L C L P E D I R N R R G
UniRef90_UPI0004421135 L G I F D Q V V S T G G G G V E L L F K R A G A F L L N Y S S D L C L P D D D L A D R R G
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UniRef90_UPI0004438E67 G G A L S E S S L G K E L T E L M R R A L S S M T Y S S L C L P E N D I A A R R G
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UniRef90_UPI0000F2BF64 G G G F D K M N S G G E G K L N I L R R G I A H L T Y R S S L C L P N D I A D R R G
UniRef90_UPI000328D884 C G L F D K A N A G G G G H V Q M V Q R R A M Q D L T Y S S L C L P P E A I E A R R G
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UniRef90_UPI0003EC2F10 G G L F D K V S T G G G G H V Q L I R R A M T Q L T Y R S S L C L P D D L A D R R G
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UniRef90_UPI0003DE8103 S G I I E S D F S A G K H S T E I I S A A Y K D W R F D M E A L A D L I R R R G
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UniRef90_UPI00045DD881 G G I F D K A V S G G G G H V Q L L R R A T A Q L T Y C S L C L P P D D L A D R R G
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UniRef90_UPI000273DE34 G G I C Q G M S L G V E G F A G V M V R A L S E L T Y D S L Y L P D N D F V E R R G
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UniRef90_S7NEW5 G G L F D K A G S G G G G H V Q L I R R A M T Q L T Y R S S L C L P P D D L A D R R G
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UniRef90_UPI000462CAA1 G G V I E K T F S A G P Y A M R L S S L V Y K D W N F A T E A L P E D L K T R R G
UniRef90_D8U0N8 G G N I E R A M G S G E Y T K V L M A K G M S C L T Y T S L C L P D D I Q E R R G
UniRef90_UPI000388F689 G G S S E N T V F L G K Y G L S M T S E V Y R N W N F T E Q A L P E D L I K R R G
UniRef90_B8BL65 G G L F D K A S S T G G G K F E V M Q R G F T S L T Y S S F C L P E D I A A C G R G
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UniRef90_D8UD18 N G V F D K A I G C G L N A A A L L R G T E L L R Y S S M C V L P D D L V R R R G
UniRef90_W5KEZ0 G G L S A K G M S L G E G F A G V M V R A L S E L T Y D S L Y L P D N D F V E R R G
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	450	460	470	480
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UniRef90_H2MRU5	L E D	V P N F Y Y R D D G L K L	W N I M H R F V	H D I L
UniRef90_Q39611	L A E E D P T A P H G L K L A	L E D Y P F A N D G L V L	W D I T K E W V	T D Y V
UniRef90_F7FE7	V Y	G L Q G Y Y R D D G L K L	W G A I E S F A	S E I V
UniRef90_G7J632				
UniRef90_B5A597	V E S	L P H F Y Y R D D G M K I	W L A I E S Y V	S P I V
UniRef90_UPI0003942437	L K D	V P N F Y Y R D D G L K L	W D I I H R F V	K E I V
UniRef90_I3JSI7	L K D	V P N F Y Y R D D G L K L	W E I I F R F V	K E I L
UniRef90_UPI0003C12DD3	V E D	I P S A L Y A R D D G M Q I	W G A V E C F V	V S E M T
UniRef90_G3GYA8	L L R	I P S A L Y A Q D A L Q I	W E V T A R Y V	V S E G M V
UniRef90_UPI0004441FF1	L	E L L P N F Y Y R D D G L D L	W N I I Y S F V	K G T L
UniRef90_I3K6V0	L Q S	L P N F Y Y R D D G L K L	W N I I N S F V	K Y I V
UniRef90_UPI0004439775	V H D L C	L P N F Y Y R D D A L Q I	W A A I E S F V	S D I V
UniRef90_I3JSH3	L K D	V P N F Y Y R D D G L K L	W D I I H R F V	V E P V
UniRef90_UPI0004441B9B	M K D	I P N F Y Y R D D G L K L	W D I I H R F V	V E G I V
UniRef90_UPI0003347D7E	L	L G L P N K A H Y V H D A	L R L W E I I A R Y V	V E G I V
UniRef90_M0YNU1	M V R R D P K K N E E L E	L P R K D E P N	I W T A I W K W	V T G L L
UniRef90_UPI00027F5AEC	V E D	I P G Y Y Y R D D G M Q I	W D A V E R F V	S E I I
UniRef90_UPI00044482EA	L E D	V P N F Y Y R D D G L K L	W D I I H S F V	V K G T L
UniRef90_S4RFK5	V D S E E S	L P Y Y F Y R K D G Q Q V	W N C T A Q F V	K E V L
UniRef90_N1R1J6	M A V E D A S Q P H G L R	L L I E D Y P Y A T D G L L	W S A I S R W C	E A Y V
UniRef90_V9KDM7	V	D K L P N Y Y R D D G L R I	W G A I S S L V	Q E G V V
UniRef90_H2SRY9	L E S	L V P N F Y Y R D D G L R L	W S I I N R F V	Q G V L
UniRef90_P27479	L	L G V K S S F Y A Q D A L R L	W E I L S R F V	S E I V
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UniRef90_UPI0002A4BB0C	L E D	V P N F Y Y R D D G L K L	W D I I G L F V	H G I L
UniRef90_S8EKA5				
UniRef90_C5YRF1				
UniRef90_UPI0004442ECA	L E S	I P N F Y Y R D D A L K L	W N Y L N E Y A T A M V	V S R I V
UniRef90_G3SUT9	L	L G L P C A L Y A H D A L R L	W E I T A R F V	V S D I V
UniRef90_UPI00039441D1	V D S	K E E L P T Y F Y R D D G Y K V	W E A T K R F V	V S D I V
UniRef90_UPI000273DFC2	L	L G L P G A L Y A R D A L R L	W E I I A R Y V	V S D I V
UniRef90_UPI0003BD1A65	L K S	L V P N F Y Y R D D G L R L	W R I I H R F V	V L G V L
UniRef90_J9P4L3	L	L G V E S S F Y A Q D A L R L	W E I I Y R Y V	V Q G I V
UniRef90_H2LQV2	M Q D	V P N F Y Y R D D G L R L	W Y I I Y R F V	K G V I
UniRef90_UPI0003314874	L	L G V K S S Y A Q D A L R L	W E I L L R Y V	V E G I V
UniRef90_UPI0003314874	L	L G V K S S Y A Q D A L R L	W E I I Y R Y V	V E G I V
UniRef90_UPI0003EAAFE7	M E S	Q E E L P Y F F Y R D D G M R V	W E V V K R F V	T D V V
UniRef90_UPI0002740B81	V E D	L E V P G Y Y Y R D D G M Q I	W S A V E R F V	S E I I
UniRef90_UPI0004421135	L	L E V K S P F Y V Q D A L Q I	W L Q L E S H Y	V E G I V
UniRef90_UPI0003318F6F	L L D V K S S	E T I P N F Y Y R D D A L K V	W N H I N S F V	K S G I V
UniRef90_UPI0004438E67	L	G I P N F Y Y R D D G L K L	W A A I N R F V	V E G I V
UniRef90_UPI0000F2BF64	L	L G I P S A L Y A H D A L R L	W D I I S R Y V	V Q G M V
UniRef90_UPI000328D884	M A S K A D	I P P Y Y F Y R D D G L V	W E A I H K F T	A D V V
UniRef90_UPI0002A4C9FB	L D S	M H I P N F Y Y R D D A L K L	W D V I E S F V	S S V V
UniRef90_UPI000332FACD	V	L P N Y H Y R D D G L K I	W S A I E R F V	S E I V
UniRef90_L5KCZ4	M D S T E D	I P Y Y F Y R D D G L V	W E A I K R T F	A D V V
UniRef90_V9KDM7	V Q D	L P G Y Y Y R D D C L A V	W D A L E R Y V	T E I I
UniRef90_UPI0002ADAC62	L L D V K S S	E T I P N F Y Y R D D A I R L	W G I I S R Y V	V E G M V
UniRef90_UPI0003F0B99F	L	G L P S A L Y A Q D A L R L	W E I T A R Y V	V E I V
UniRef90_UPI0002ADAC55	V Q D	L G L P G Y Y Y R D D S L A V	W N A L E R Y V	T E I I
UniRef90_UPI0003EC2F10	L	L G I P S A L Y A H D A L R L	W E I I A R Y V	V E G I V
UniRef90_Q772A9	V T	K V K G Y V Y R D Y S L M L	W D V I Q N F V	S G I V
UniRef90_UPI0003EE2A85	V E D	I P N Y Y Y Q D D D G L	W G A V E S F V	S K I I
UniRef90_G3RWW0	L L D V K S S	F Y G Q D A L R L	W G I I S R Y V	V E G M V
UniRef90_M4E187				
UniRef90_UPI0003S7PBR8	L	L G I T S A F Y A H D A L R L	W E I I A R Y V	V E G I V
UniRef90_Q95103	L	L L G T P G A L Y A C D A L R L	W E I T A R Y V	V E G I V
UniRef90_UPI0003DE8103	L A E P D P T Q P Y G L R	L L I E D Y P Y A N D G L L V	W F A L E N L V	V R T Y V
UniRef90_G1QAU7	L	L G I P S A L Y A H D A L R L	W E I I A R Y V	V E G I V
UniRef90_V4UKL7	I A V P D P T Q P D G L K	L L I E D Y P Y A A D G L L I	W S A I E D W V	V R T Y L
UniRef90_H3AEE6	L D S	K E E L P N Y H Y R D D G L A V	W D A I K S F A	A D V V
UniRef90_UPI0003957333	M	S H V P N Y H Y R D D G M S	W E A I E S F V	T D I V
UniRef90_L9KM76	V Q D	L P G Y Y Y R D D S L A V	W D A L E R Y V	T E I I
UniRef90_F6QV45	M E S K E D	L P Y Y Y R D D S L A V	W E A T L N F V	K D V V
UniRef90_UPI0002C2DCDD	I L D	T P N Y H H R D D D G L K V	W A A I E S F V	S E I M
UniRef90_G1Q041	L	L G V K S S Y A Q D A L R L	W E I I Y R Y V	V E G I V
UniRef90_UPI00045DD881	L	L G L P G A L Y A R D A L R L	W E I I A R Y V	V E G I V
UniRef90_UPI0002C34562	M D N T E D	I P Y Y F Y R D D G L V	W E A I R E F T	A E V V
UniRef90_G7ZZ16				
UniRef90_Q4S6Z4	L	D T I P N F Y Y R D D G L K L	W N I L N S F V	T M V
UniRef90_UPI0002A49F5D	L E D	V P N F Y Y R D D D G R K L	W D C M H Q F V	N D I L
UniRef90_M7CL10	M D S K E D	I P Y Y Y R D D G I K V	W E A I K S F M	M D V I
UniRef90_L5M3S5	L	L G V P S A L Y A H D A L R L	W E I I A R Y V	V E G I I
UniRef90_UPI000273DE34	V Q D	L P G Y Y Y R D D S L A V	W N A L E R Y V	T E I I
UniRef90_UPI00042C7127	L	L G I P S A L Y A Q D G L R L	W E I M A R Y V	V E G I V
UniRef90_UPI00046BA88C	L	L G I P S A L Y A H D A L R L	W D I T A R Y V	V E G I I
UniRef90_W5N841	V E S	L G I P N Y Y Y R D D G L C	W N S I N R F V	V G M V
UniRef90_S7NEW5	L	L G I P S A L Y A H D A L R L	W E I I A R Y V	V E G I I
UniRef90_UPI0003344EB1	L	X L G V K S S F Y R Q D A I K L	W E I I N W Y M	E R M V
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UniRef90_UPI000462CAA1	V T S	I H N Y Y Y R D D G L K I	W D A I E S Y V	S G I V
UniRef90_D8U0N8	M V D A N G K P W	L D Y P Y A T D G L D V	W N A L T S Y F	D S K Y L
UniRef90_UPI000388F689	V D S	I P N Y Y R D D G L K I	W S A I E S F V	S G I V
UniRef90_B8BL65	V A K R R S N G E	L E L L I K D Y P Y A V D G L A I	W S A I E T W V	V R D Y C
UniRef90_W5LZM4	V E R	I P N Y H Y R D D G L K L	W A A I N R F V	V E G I L
UniRef90_W5N623	L	D K L P N H Y F A L D G L R V	W G A I K R F V	V Q G L V
UniRef90_D8UD18	M V D P T G K P W	L D Y P Y A T D G L D L	W N A L T S Y F	D T Y L
UniRef90_W5KEZ0	L	D T L T N G Y Y A Q D A L R V	W N A L H R F V	V G S W V
UniRef90_UPI0001D36BF2	V Q D	L P G Y Y Y R D D S L A V	W N A L E R Y V	T E M I
UniRef90_H2MEV4	V H	K L P H S Y Y A E D A L R V	W D A L H R F V	V A G W L

UniRef90_Q5FWK8 H Y Y Y P N D Q T V S K D P E L Q A W V A E I F Q E G F L S N T N S G I P S S F
UniRef90_H2MRU5 S F Y Y K N D G M V V Q N D A E L L Q Q N W L Q E I F E N G F L R R S E T V I P S K F
UniRef90_Q39611 T H Y Y P E S S R V E S D T E L L Q Q E W W K E I R T V G H A D K R D A Q G W P D L
UniRef90_F7FE7 D L Y Y P D D G V V R G D S E L Q T W V R E I F T E G L L G R D S S G F P S S L
UniRef90_G7J632
UniRef90_B5A597 D Y Y Y K S E E S I Q K D P E L Q A W V A E I F K E G F L E R K N S S G I P S S L
UniRef90_UPI0003942437 T H Y Y E T D A D V Q Q E D H E L L Q N W I K E I F F E H G F L R S N S S T G I P S K F
UniRef90_I3JSI7 T S Y Y K T D A E V V Q K D S E L L Q N W I H D I I Y F E H G F L S Q A S S T G I P P Q K F
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310

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G W D V D K L L A S S T D G L I A V K G A Q S H L H N F N E V S F P K L L A S R R G G
G G W V D N T T L T A E R A T F Q E L T N K F W E K Y N F E E F C L P K M E M F E K N D G
N G A V D K Y T S T L G R G F Q L L E M E R H W S Q F H F D H L N P R K M E F E R R R E
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G G I F D K G W S G G G H V Q L M R R R A M A Q L T Y R S F C P P E D L A D R G
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K V I I D L V G L A T T E T Q A K Q F I R S E Y E T F H F D H L N P R K M E F E R R R G
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V T V I
L I T T G D V I L A A P L E T L Q S C G R D R R L A Y D F Q D M M L I P N D L L K R T R G
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D G P I E S L L G G S A A L K L I A K H K E Y L W R E N T F I A R L D K K N D
E V I T K L A G V G Q T E L N A F L I N H A Y S F D W T G L R I P N D L L A S R R G
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G G G L D L V T Q I G E G A F T L L R E K L K T W R L D D G T L P E D L L K N R R G
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G S V L D S V M S L G Q G R H E L L R K C A F N I R A L D L P A S L K K R R G
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G G G V D Y V L A G T V D S T R D A A A A V F D W N L D E A S F A R S L L R R R R G
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V V P F D R T F A T G A G L Q L V L K A W R W D F F G M S F P Q Q L L E R G
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S G V F D Q V V S G G G H V E L L Q R A G A F L T Y S S F C P P D D L A D R R G
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K I I L N I A G M D K H S M N Y L K T E Y Y T F H W E D L Y I P N D L L K R R R G
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UniRef90_H3GN17	V Q V	E M M R S L S T E H P V Y A L L D Y H F F A D F G M E Y F A R R E L L S P		
UniRef90_G4ZNJ8	V Q V	E M M R S L S T E H P V Y A L L D Y H F F A D F G M E Y F A R R E L L S P		
UniRef90_J3NWC7	V H E	A A F R T L S D R H P V M G V L N R L M Y Q A Y A I R P V G A R V L F N P		
UniRef90_G4V9T8	I Y V	S L R R N V S Q S H P I Y H L V A P H F R S I L P V T K K L K E W T F F E N		
UniRef90_M1VX01	P Y L	A A E R C M S E N H P V L A M Y K K F M L N G F S F R Q F L Q K K L F A P		
UniRef90_A7RUD1	P C T	L V E K Y S E Y H P L H Q M L R Y H C R A N L E T N K L F E L K L Y G E		
UniRef90_H3GV31	I Q V	E M M R S M S E E H P I Y A L L S Y H F F G D M A L E Y L G G V L L F S V		
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UniRef90_M7T7J9	V Y L	S A I R T L S E D H P F M P I L H R L S K W T W A M R P L A I E R L I F S		
UniRef90_K3XCQ7	V Q V	E M M R S M A T N H P I Y A L L D Y H F F T N F A L E H L A R T A L F A A		
UniRef90_UPI0002B41F37	F C L	T F F R H L S I Q H H P L Y D F F Q W H C V G T T S H L S Y H A L V A N		
UniRef90_UPI0003654A12	I P V	A Y F R N I P N Q H P L R L L D T H L M A L V T N N H T G I F E L V G P		
UniRef90_UPI0002F51A96	I P V	A Y F R N I P N Q H P L R L L D T H L M A L V T N N H T G I F E L V G P		
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UniRef90_K9UBW3	Y S I	S L L R N V R K N P V R D F L Y P H L K E V V H I N N F G R R D L I M D P		
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UniRef90_UPI000360E80A	M L M	T A L N T L P P T N V I Y Q L E A P Q S N Y L V P F D M L T W S S L S P		
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UniRef90_W71036 G G S I G K Y F W T G E S A A K F S G E Q Y S N G A V Q G N Y F L T N L R N R G
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UniRef90_W6PR13 G G F Y D S S F A L P N W A G K K Y A T D A Y W E H H F K A T N F Y Q D L F D R G
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UniRef90_G4ZNJ8 G T P Y D Q V T G Y G A T G S L R A V M R E F E T T S I A L D L P T D L A A R E
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UniRef90_W7TYD4 D A A F N E F L S L Y S G S V A G L S P Y F M E Q F D W T N L W E D L K A R G
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UniRef90_L7U4Y6 T G Y I T R A S A L T E R G I E R L V H L L G S Y D W K G F A P A P P V C E S H
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	450	460	470	480	
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UniRef90_T1FQA1	T N D K N	H L P Y Y Y R D D A T T	M W N L I	Y K Y V N N M L	
UniRef90_S0F3P2	F N P D G S D G L L	N Y Y R S	D G M R I	W K A L S R Y V R T T L	
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UniRef90_UPI0002652D1F	N D D T V G E G A N G I				
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UniRef90_W9WWF7	L L N S N F G	P A L K N F P F Y E	D A S T I Y N A I	H A F M T S F V	
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UniRef90_W6PR13	L L D C A Y G	P P L R S F P F Y E T V	A P M V Q A I	E D F T R S F V	
UniRef90_S8A0S5	L I G S T	V G P A L K S F P F Y E	D A L V I H N S I	K K F I T S F V	
UniRef90_F9FRH4	L L N A T H G	P D L P H F P F Y E	D G A R I I K V I	R T F I Q S F V	
UniRef90_G2YVY5	L L N C T Y G	P A L K S M P F F E	D G N V L H S L I	L K F I T S F V	
UniRef90_W3XA02	L L N S Q F G	P A L K H F P F Y E	D A S V I H D A I	H A F M T S F V	
UniRef90_UPI0003F0EABE	L	L H V K S S F Y C	Q D A L K F W G I	R D	
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PVIDENSVAI
LENSLSI

NASVI

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A

PVNVMNIT

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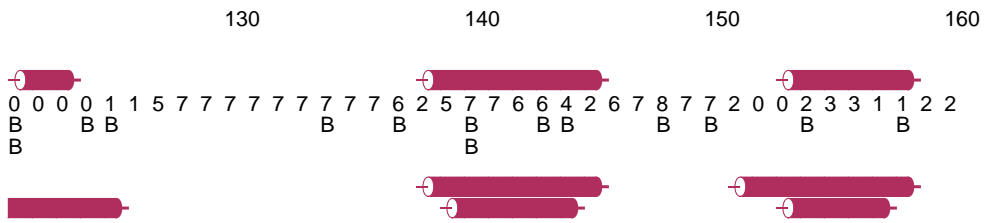


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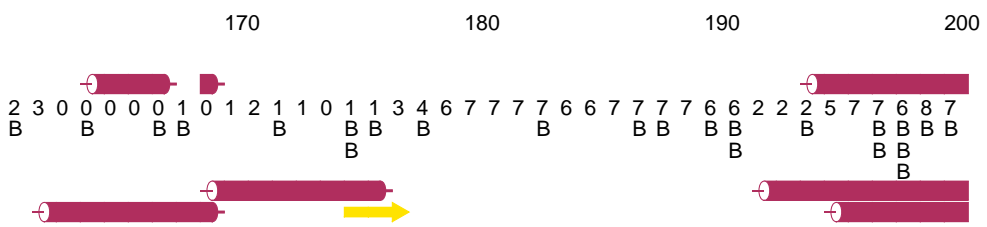
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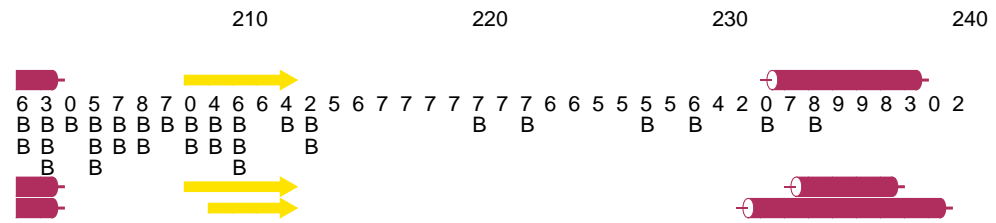
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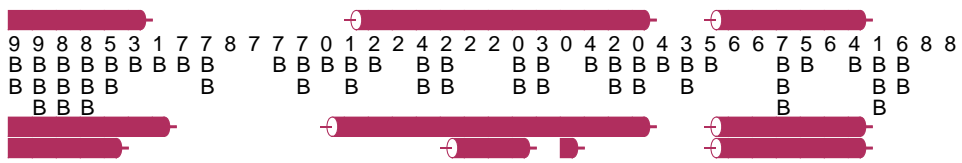
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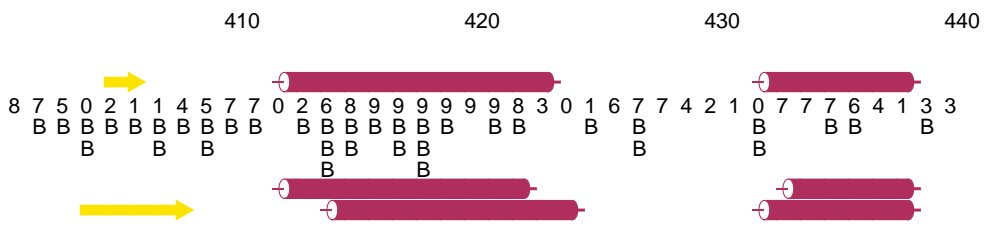
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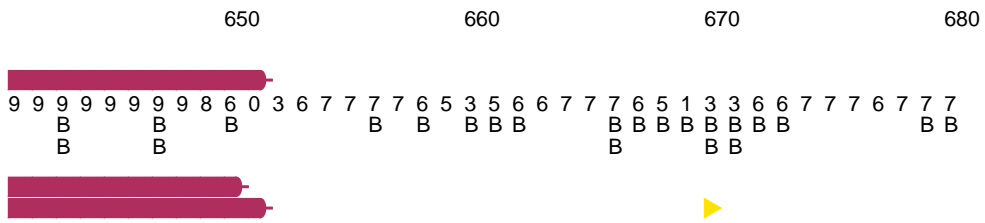
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