

1 10 20 30 40

QUERY	UniRef90_029759	UniRef90_D8LRJ8	UniRef90_L0HBV8	UniRef90_G7WQG3	UniRef90_L0KZD3	UniRef90_T1AAC9	UniRef90_F2U2N4	UniRef90_Q8TYB8	UniRef90_D7E8G6	UniRef90_T0MQ55	UniRef90_H1Z2B3	UniRef90_K3WGJ1	UniRef90_D7DUQ6	UniRef90_A2ST51	UniRef90_V4ZV11	UniRef90_D5EAW6	UniRef90_D3S2F0	UniRef90_A0A023FK98	UniRef90_A9V7B2	UniRef90_A3CW54	UniRef90_B6YSI0	UniRef90_M9S9L1	UniRef90_D1Z1X9	UniRef90_A4RYM8	UniRef90_F2KT30	UniRef90_E0VLQ6	UniRef90_R9T553	UniRef90_A7RWI6	UniRef90_A4FZT7	UniRef90_T1J5D7	UniRef90_B8GEZ2	UniRef90_A1RXQ8	UniRef90_H9KHP6	UniRef90_I1G2T7	UniRef90_A2BKB8	UniRef90_W0JYW2	UniRef90_A9NNC3	UniRef90_J9JZR0	UniRef90_W4Y4N0	UniRef90_W4Y4N0	UniRef90_Q9TBZ7	UniRef90_Q6L1E1	UniRef90_E3GZ89	UniRef90_I0Z713	UniRef90_B9LUX1	UniRef90_N6V2X1	UniRef90_C1MUG7	UniRef90_B1L6N9	UniRef90_B3T6G5	UniRef90_A0B8W5	UniRef90_Q2FU62	UniRef90_E1Z354	UniRef90_E6N8Y5	UniRef90_F8ANR4	UniRef90_Q6ZD69	UniRef90_G0ECM7	UniRef90_V6ARS5	UniRef90_T0QV52	UniRef90_D2VKH8	UniRef90_T0ZNS7	UniRef90_T1B604	UniRef90_V4ARJ9	UniRef90_U5EWR6	UniRef90_R9SLX8	UniRef90_C6A458	UniRef90_D8UDF4	UniRef90_W7KM52	UniRef90_T1K7U5	UniRef90_B3S4K1	UniRef90_C3YDE4	UniRef90_M7TB95	UniRef90_M7TE95	UniRef90_D0KTE1	UniRef90_T1C8A6	UniRef90_K0IJH0	UniRef90_A9TM5	UniRef90_UP100035943F2	UniRef90_F0TCD4	UniRef90_D6WZR6	UniRef90_E9CEC0	UniRef90_A3DMU7	UniRef90_T2M2Q9	UniRef90_H0XUF1	UniRef90_H9JB40	UniRef90_UP100026595EB	UniRef90_E2AUC7	UniRef90_Q5V2X9	UniRef90_A8MAL1	UniRef90_E1QP68	UniRef90_Q3HWV8	UniRef90_B1Y980
L T A E Q R R Q M I E D K R [K] I N K I A R E A I N P Q N G [P] H P P P K R I E	I T A E Q R R E M L E A K R K Q I I N F I S R N T I D P R T N A P H P P S R I E	V S D K E R Q V A L E S V F R D V A T I V S E K C V N P A S N R P Y T V S M I E	L T A D Q R K Q M V E E K R R Q V I T F I A T N A I N P Q T G P H P P A R I E	L T K E Q R K Q I L D E K T K R I I S T I A Q N A I N P Q T K A P H P P S R I E	V T E Q R R H Q L Q A V K L R Q V I T T I A R N A M N P Q D G H P H P P A R I E	V S K E E R D N E L A D K F K E V A S I V S D K C I N P D T K R P Y V A A Q I E	L T A E Q R R R M Q E E V K R K I I H I I A R R A V I D P R T G A P H P P E R I E	L T K E Q R R K R M L D E K R K Q V V N I I A Q N A I N P Q T K T P H P P P S R I E	L T E Q R R K M L E E K R R Q V I I E I I S R E S M N P Q S G T P H P P P Q R I E	L T E Q R R K Q M V E D E K R K Q V V N F I S R N A I N P Q N K P H P P P K R I E	V S E G E R K A Q V E N L Y R D I A T I V A D K C I V N P N S N R P Y P F S V I E	L T A E Q R K E M Q E Q K K K Q V I S F I A R N T I V N P Q T D T P H P P P K R I E	L T T E Q R R H [I] E E K R R R V I T F I A R N A V I N P Q T G [P] H P P V M R I E	I T A E Q R R E M Q E Q K R R V I T F I T R N A V I N P Q Q G A P H P P D R I E	L T Q E Q R K H F L E E K T K Q V V S I I A R N A I V N P Q T R A P H P P G R I E	L T A E Q R K E M L E Q K K K Q I I E Y I R R N S V I D P R T G A P H T Y A R I E	V S E K E R R H S Q L E S S F R D I A T I L V A D M C I V N P E T K R P Y P V I V E	V S K E E R D A Q K G A [L] F K E V A T I V A D K C I D P A T E R P Y T A A Q I E	L T S E Q R R H [I] A E K R R V I T F I A R N A V I N P Q S G F P H P P P Q R I E	L T A E Q R R Q M L E E K R R Y I A T I I H R H A V D P R T G Y P H P P V D R I E	M T A E Q R K E L L E A K R R Q I I T Y I A A A N A I N P Q T K L P H P P P T R I E	L T A D Q R H R M L E E K R R Q V V S F I S R N A I N P Q T M A P H P P A R I E	V S E R E R K A E S E S A F R D A V T T L V I E K C V N P G T N R P Y P P G M I E	I T A E Q R K E M Q E L K R K Q I I E F I R R N T V D P R T G T P H P P P A R I E	V S D K E R R H N Q F E S L F K D I A T T I S E K C I V N P D T K R P Y P V S M I E	L T T E Q R R E M M E A K R R R V I A V I A M N A I N P Q T Q A P H P P A R I E	V S E K E R R N Q Q L E S S F R D I A T I V A D K C I V N P E T K R P Y P V G V I E	L T A N Q R K E I Q E Q K R K Q I V S I I S K N T I V N P Q T D T P H P P P K R I E	V S E R E R R Q A Q L G S T L K D I A T N V A D K C I V N P D T K R P Y P V T M I E	L T S D Q R R H M I A D K R R Q V V N F I A R N A V I N P Q T G Y P H P P P T R I E	L T T E Q R R E L I E E Q K K K R Q I I E L I I S R N A V I D P R T N A P I P A K R I E	V S D K E R R H S A L D S M F K D I A T T V A N K C I V N P E T K R P Y T I T M I E	I S E R E R R Q S Q L E S L F R D I S T I V A D K C I V N P D T K R P Y T V G M I E	L T A E Q R R R Q R L I E A K K K Q Q I S Y I A R N A I D P K T K L P I P P A R I E	I T A E Q R E E M Q E Q K R R K L I I T I I T R N A I V N P Q D D A P H P P E R I E	I S D K E R S A Q Q L D A S Y K D I A T I V A D K C I V N P E T D R P Y T I N M I E	V S D K E R N Q Q L E S M F R D I A T I V A E K C I V N P E T K R P Y T V G M I E	V S D K E R N Q Q L E S M F R D I A T I V A E K C I V N P E T K R P Y T V G M I E	L T T E Q R R E M Y D E R R K Q I V N I I A R E G I I N P Q T N T P H T P Y R I E	L T T D Q R R K M T E E K K K R Q I I N E I V R Q A I I N P Q T N T P I P A I R I E	L T A E Q K R R M M E E K F K K I V N K I S R E A I I N P Q T G H P H P P K R I E	V S D K E R D V E L L S S M F K D V A S I I A E K C I V N P N T Q R P Y T I S M I E	I T A E Q R E E M M E R K H N Q L V T T I T R N A I V N P Q D D S P H P P E R I E	L T A K Q R E E I R E Q K K K Q I I T I I C K N T I I N P Q T D T P H P P H R I E	V S D K E R K L N F D T L F R D V V N V L V I D K C I V N P E T N R P Y P G M I E	L T A E Y R K K L Q E E K I R W I I N Y I H K N F I V D P Q T N L P H P P V A R I E	L T T S Q R R R M V D E M K K K I V N E I A T T A D P R T K L P H P P R V R I E	L T A E Q R R R V I E S K K K R Q V I E L I A R N A I I N P Q T R T P H P P P S R I E	L T S E Q R K V L T A E K R R Q V I T F I A R N A I V N P Q T G H P H P P Q R I E	V S D K E R R V E L D T L F R D V A S V L S E K C I N P E S N R P Y T L S M L I E	I T T E Q R R R L I E E K K K R Q I I D F I A R N A I I N P Q T N T P H P P P Q R I E	L T A Q Q R K E M K E Q K R K Q I V S L I A R N T I I N P Q T D A P H P P P K R I E	V S G K E R E A Q L L S S Q F H E I A T I V M D K T I I N P E T R R R P Y T I T M I E	M T E Q R R R L I E E Q K K K R Q I I M F I A K A N T I I D P R T K L P V P P Q R I E	L T T D Q R R R K M I G E K R K Q I I E F I A K T Y I V D P R S H L P H P P L R I E	V S D G E R A A F N E S V Y Q E A T I V A E K C I V N P E S N R P Y P F T V I E	V S T K E R E E M Y E S M F K D I V T I I T N K C I V N P D T Q R P Y P G G V I E	I T T E Q K K A M L E E K R K Q I I D I I A R N S I I D P R T N A P A T A L R V E	I T T E Q R S K M V E E K R K Q I I D L I I A T N S I I D P R T G A P P N P L R I E	V S E K E R Q A N A E S M F R D I A T V V S D K C I V N P D T N R P Y P V T M I E	V S D K E R R H T Q L D A I F K E I S T I V A D K C I I N P E T K R P Y P V S I I E	L T A E Q R K S A Q L D A A F K D I A T I V A D K C I I N P E T K R P Y P V S I I E	V S E K E R R A S Q I E T M F R E I A T I V A D K C I I N P Q T G Y P H P P P Q R I E	V S E K E R R H S Q L E S S M Y K D I A T L V A D M C I V N P E T K R P Y T V G L I E	L T T E Q R R H E M Q K K K W N K I V D T L M R N A M D P Q T K T P H P R Q R I E	L T T E Q R R H E M Q E Q K R K R V I D V I V K N A M D P K T K A P H P R Q R I E	I T T E Q R R H E M Q E Q K R K R V I D V I H R N A I I D P K T N L P I P I S R I E	V T A E Q R K E M L E T K R K Q I I D F I H R N A I I D P K T N L P I P P T R L I E	L T T D Q R R R E M L E K K K R K Q I V E M I A R E A I I N P Q M N A P H P P A R I E	L T T D Q R R K M V E E K K K K Q I V Q F I N K S F V I V D P K T H L P H P I I R I E	V S E K E R R E R E S Q L S N Q F R D I A T I V M A K T V I N P D T E R P Y T I T M I E	V S E K E R R E R E S Q L S N Q F R D I A T I V A D K C I I N P P Q T K L P H P V R R I E	L T A Q Q R K E M Q E E K R [K] V I T T I A R E A I I N P Q T K L P H P P V T I I E	V S D K E R R Q S Q I D Q L F K D I A T T V A E K C I I N P E L K R P Y P V T I I E	V S E K E R R Q V Q L D A M Y R E I A T I V T E M C I V N S E T Q R P F T V T L I E	L T A E Q R R K I I E N K R R Q I I S L I A R N A I I D P K T K L P I P P K R I E	V S E K E R R S S Q F E S S M Y R D I A T T V S N K C I V N P E T K R P Y P V G V I E	V S D K E R R Q A Q L G Q M F R G I A T T V A D K C I V N P D T K R P Y T V I L I E	V S D K E R R H S Q I D S L F K D I A T T V A D K C I I N P E T K R P Y P V S I I E	V S E K E R R H T Q L E S T F K D I A T T V A D K T I V N P E T K R P Y P V S I I E	V S D K E R R H L A L D S M F K D I A T T V A S K C I I N P E T K R H P Y P V S M I E	I T A D Q R R E M Q E Q K H K Q I I Q R I T R N A I V N P Q D D A P H P P E R I E	L T S E Q R R R L I E E D K K K Q I I D W I S R N C I D A R T K A P L P P Q R I E	L T A E Q R R R 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QUERY

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50 60 70

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

1 10 20 30 40

VSEKEKERSANIEESSFRDIATVVADKC**C**I
TAEQRRKLLDEDKKKNQIVNLIAKNAVDPKTKL**P**
ERHTQLEQMFNRNIAATLVADKC**C**VPETKRPYTVILLK
VSEKEKERTHQIDNIYREIATMVAEKC**C**VNPNP
TTEQRRHEMLERRRKQIIDDMI SRESINPQTTNA
TAEEQRKMKVEDDKRQVVEWISRN**C**NDVRTKTPV
TAEQRKIETKTRQIITYIARNAVDPKGTPIPE
EEGERKAQTEENMYRDIATI AAEKC**C**VNP
SDREERKLELDT KF RDVAAVISEK**C**VNP
TAEQRRQMQEDDKRKQVVAKIAREGINPQ
EERKSDHEAKYRDIATLVADMC**C**VNP
GEKEREVGQESVTRDC**C**VNL VIEKTV
SEKERQVQSESSFKEVANLIAANMC**C**VNP
TTEQRRKMLLESKRKMIIITYI SRNAVDP
TEQRRHKLQEEKKRKRIIDTISREGI
AAQRKKVVEEKRKMV DQIARIS
AAEREKVKVNKRKAEMINYYIHKYYIDP
AEQRKEMIENKKKQIDYI SRNAVDP
GEKERREHELELTWRD ATOVAAKC**C**VE
TDQRRMV EEEKRRQIYEYIAKTFV
GEKERSHEFSNLWEATI VAAKC**C**VE
TEERK KMLEAKRKQIINYIVKNTIDPKSSGK
DKEREAMHESLYRDATIVVALKS
TAEQRRALEEKKRKIIDLISRNAVDP
TAERREQT DQKRRREI VYYV
TADQRKEMLENKRKQVDFI
VTAEQRRALEEKKRKIIDLISRNAVDP
TAAERREQT DQKRRREI VYYV
TADQRKEMLENKRKQVDFI
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UnRef90_E8R7E6
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UnRef90_S2E248
UnRef90_X1MJU5
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UnRef90_S2KB41
UnRef90_E9C674
UnRef90_D2VJ18
UnRef90_G4TPP5
UnRef90_F4PU47
UnRef90_I4YGE7
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UnRef90_Q75F96
UnRef90_E5SX31
UnRef90_Q2NEX7
UnRef90_L8HP57
UnRef90_U6HWK9
UnRef90_S7S1B0
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UnRef90_G0QFQ3
UnRef90_A8AAC7
UnRef90_J3QYJ0
UnRef90_B4H7B0
UnRef90_M7XFZ3
UnRef90_XOYE47
UnRef90_A0A024TF47
UnRef90_R1CR96
UnRef90_B6K6Z0
UnRef90_R7QJF2
UnRef90_J4C2K5
UnRef90_X6ND83
UnRef90_M1VF53
UnRef90_W6NMU0
UnRef90_Q5XQ94
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UnRef90_X1HIR0
UnRef90_J3QCN9
UnRef90_G0QBP7
UnRef90UPI0004407B81
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UnRef90_L8WTJ9
UnRef90UPI0003F4A527
UnRef90_R4XC79
UnRef90_Q3HWV4
UnRef90_A2ES02
UnRef90_W6KYE8
UnRef90_U6IVH1
UnRef90_F2D179
UnRef90_M2XUT7
UnRef90_G7EAL9
UnRef90_H3DYT2

50 60 70

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

	1	10	20	30	40
UniRef90_L1JJC2	L S A A E R K K K V D D K T K Q I I T Y I C G N F M E G G T N K P I P A A R V E				
UniRef90_A0A024JLC6	K E R Q Q Q A S Q I R A E T L Q M V A A K C V N P T N K R P Y P V T I I E				
UniRef90_X0V1U7	L T D Q R H K M Q K N K T N R I I L E T I A S I V A S Q C V N V N T Q R P L T P S T V E				
UniRef90_A2GC11	L A E K E R K L V I E N L T K D I A S I V A S Q C V N V N T Q R P L T P S T V E				
UniRef90_Q5K9W6	E R T Q H L S S L S R E I A T I V S E M T V D P N T S R K H T V G M V E				
UniRef90_H2B0N6	L S E K E R Q L M L N K I N N E M L T I I S A K C C I N P V S K K R Y P P T M I H E				
UniRef90_W1QA44	L S S E K E R S A Q N E K L H N E I L T I I S T K C C I N P K T K R Y P P T M I Q E				
UniRef90_A5DGJ5	L N E K E R S A N L Q Q K Q N E F L N I I S T K C C I N P R S K K R Y P P S M I Q E				
UniRef90_W5GI66	V S G K E R G A Q L S V Q F R D I A T I V M E K T I D P E T R C P Y T M N M I E				
UniRef90_K1VSX8	E R G H Q L A S L S R E I A T L V A E M T V D P A T K R K H T V G M V E				
UniRef90_I7J9L4	S H E E R L Q S L Q K K F K D V V S I L H E M C I N P Q T N A P H P P A R I A				
UniRef90_T1C548	M L Q K R T K Q I I E M I S R E S I S E V T R R P F P P H V E				
UniRef90_G0TUK1	Q E R E A E V D Q M F T D I S V I I S S Q K C C I D P R T G L P Y T Y Q R I E				
UniRef90_Q74M40	I P T E Y K R K I K E E L K R K I I E L I R K N Y I S R E T K K P L P V V G L M E				
UniRef90_M1VG20	V S D R E R Q Y Q S T R Q L K H E A S V V A A K T V I N P S N N L P L T V K M L E				
UniRef90_B6AC29	V S S E A E R S Y M M E K Q M Y L D C I N C N L L S E M T V I N P K T G R A L T S T L I E				
UniRef90_S6BGM6	V S K E E R N Q M L Q A M F K D V V T I L L S E C A I I N P D T G S A F T V S M S I Q E				
UniRef90_D8LYB5	I S G K E R E R H Q L Q S V T N E E A T L I I S E M C Y I N P D T G S A F T V S M S I Q E				
UniRef90_D8LYD2	T V Q Q R R K L V E E K R Q K I I E Y I T K T Y I D P K T N L P H P A S R I E				
UniRef90_C0J347	V A Q Q E R A A E I D Q M F I D A V I I S S Q K C C I N P E V T Q R P F P S Q V E				
UniRef90_Q4N8W7	V S K E E R E Q L L K S I F N D I I T I L H E I T I I N P Q T G N S L S R T M L E				
UniRef90_D2EG61	L S T A Y K Q K K S E M L K K R I I V D K I A G M A I D L N T N L P I P K Q R I E				
UniRef90_W4GRA0	V S E S I R V A E H D S M F Q E V G S V I A K T S V I N P E I S R P Y P M S A I Q E				
UniRef90_A0A058ZAT6	V A E R E R Q Q H S E N L S R E V A Q Q M V S D M C C I I N P E T N R P Y P V T M I Q E				
UniRef90_UPI00035CA49E	I T A E R R N K I L I E E N K R R I I I D F I I A R N C I D T R T N A P V P P Q R V E				
UniRef90_X0SMH1	L T Q D Y R D E E K E K K I R Q V V D F I L S R D A V D P Q T G N P H T P E R I K				
UniRef90_C4R0K7	L S E K E R Q A N S S K Y T A E V L Q L V S A K C C I N P K T M K R Y P T T M I H				
UniRef90_W6MXJ9	L N E R E R N A K Q E Q D V N E I L Q Q I I S S C C I N P K N K K R Y T T T M I A				
UniRef90_M2W0Y8	V N F I H K Y Y I I D P A K K L P H P M S R I M				
UniRef90_J9J9A0	V S E L E R D E H L D S L K K E I I A N I I A Q K C C I I N T S D G K Q F P V S I E				
UniRef90_U4LFK8	V G E K E R S A K L L D Q M H A E V I S I V A S K C C I D P G S K R V Y T S T M I E				
UniRef90_S9TXA0	U R T A E V V D E I F K D I I C L I I I S Q K C C I I N T K T Q R P F P P Q M V E				
UniRef90_K0KTS8	L S E K E R Q A K G N Q I Q A E T L Q L I I S T K C C I I N P K S K K R Y P T M I Q E				
UniRef90_Q5CNW7	V S S E T E R S Y M L D K Q F T D I I C H M L I N R M T V I N P K N N L P L S V K I I E				
UniRef90_C1LL17	L T E K E R L V I G Q Q A L L F R D V A K I I V S E R C C V I N P E N N R A Y T V T M V E				
UniRef90_B8BZ37	I S D Q E R A V Q O L E S T I R E V A S A M V S E K C C V I H P I S R R P Y T M A Q V R E				
UniRef90_B7GB66	V S D L E R E N Q Q I Q N T L S Q I V A T W V A N N C C V I H P D T C R P Y T V S Q I K E				
UniRef90_K2GVQ3	S S D E R K Q Q V E D K K K R I V E Y I H H N Y Y V I H P D A T N K P H P I V R I Q E				
UniRef90_G0QIY5	U E K E R A V V Q Q S N I Y N D I V N I I T E K C C V I H P D S N R K F P V N Q I Q E				
UniRef90_R1E3M2	L P T E Y K R E L I E E K K K Q I I E Y I R K I A Y D S K N N M P I L T Y E R A K E				
UniRef90_I3MXV0	V N F I H K Y Y I I E T K R P Y T V I L I E				
UniRef90_L7FPN3	T T E E R K Q Q T E E K K K R L I I E Y I V H M Y Y V I D P T T D K P H P V V R I N				
UniRef90_W7EV58	I S N K E R A I L K E K I Y K D M L E I I L H E M S V I N P Q T G Y P I S T N M I E				
UniRef90_Q3HWV5	E R E N I F Q A A F R D M A T I I I A A K C V I H A K T R R A F P I P L V E				
UniRef90_D5G5F1	V G E K E R N A K L E Q T H T E V I S I V A S K C C V I D P T S K R V Y T P T M I E				
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UniRef90_K1X5Y6	V G E K E R E H A A Q L E R V R H D E I V V G I I V A S K C V I D P K T K R V Y T T G M I D				
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I S N R E R T I L K E K M Y K D I E M L H E M S V N P Q T G Y P L S T N M I E									
V S E L E R R Q Q L E S L F N D V V T C V V D L T Y S A V T G P I S R S A V S S									
V G E K E R K E L L E R V V E R E V L E I V S A R L V D P V S K R V Y T T G M S									
E K E R K E V Q L D S L N K D M I L L T Q K L H K E T K K P I S M K M A E									
T G T E R E F F H E S R T N E V I T Q L A E M C L D S R T G F P L T K D Q I S									
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K A M Q D H S V N P K R S T K S Q A L D V I K Q Q E K P Q		
S		
A A L K S L G F G V R L Q Q P A K		
K A L D Q L		
K L K D L K Y N V T S K T A K Q Q		
S A L Q D I N Y Q V		
D L F R Y N Q S I D L R R E A K V Q A N E K K		

