

QUERY	1	10	20	30	40
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UniRef90_UPI00030454BA	N N P I L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_B4F044	S D I L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_G9Y6J3		G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_A6FDM8	N K I L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_Q492D2	S S N L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_H2G0B3	S S S L Y L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_K9YCR9	S S S V T L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_R7LWE8		G V N N I I	D D H H I I	A A T V L R	R R N A R G G V
UniRef90_I1YF97	S S M L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G G R
UniRef90_F6DCR8	N S I L Y L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G G R
UniRef90_M1WY51	N S I L F L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G K T
UniRef90_UPI0003955107		G V N N I I	D D H H I I	A A T V L R	R R N A R G T A
UniRef90_UPI0003B5B4F3	K I L Y L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T A
UniRef90_K0C601	N S I L F L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T D
UniRef90_G4SZX6	N N D I L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T Q
UniRef90_K6YBM8	S D I L F L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T Q
UniRef90_Q7NWC0		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_UPI0003745B03	N R V L L L L	G V N N I I	D D H H I I	A A T V L R	R R E A R G T R
UniRef90_Q7VRR1	S E I L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T Q
UniRef90_UPI0002556440		G V N N I I	D D H H I I	A A T V L R	R R N A R G T N
UniRef90_F7XXS7	T D L R L R L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T A
UniRef90_E0WRL8	H A L E L L L	G I N N I I	D D H H I I	A A T V L R	R R N A R G T I
UniRef90_A4SVW5	P I L Y L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T L
UniRef90_I3CD87		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T L
UniRef90_UPI00035FA299		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T H
UniRef90_F5SPF5		G V N N I I	D D H H I I	A A T V L R	R R Q A R G G V
UniRef90_W0TL06	S S M L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_K0CBJ3	S S V L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_D0L0J6		G L N N I I	D D H H I I	A A T V L R	R R Q A R G T T
UniRef90_UPI0004151253	P I L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T K
UniRef90_UPI00035D53B1		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_A3PDL2		G V N N I I	D D H H I I	A A N V L R	R R Q A R K T V
UniRef90_UPI00037B0EF2	P I L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_UPI000375B26B	S I L H L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R K T R
UniRef90_C3XAS7	A T T L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T T
UniRef90_K9SIJ1		G V N N I I	D D H H I I	A A T V L R	R R Q A R G G V
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UniRef90_K9RX53		G V N N I I	D D H H I I	A A T V L R	R R Q A R A T I
UniRef90_H0JH15	S R V L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_F0F2X6	N L M L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G G V
UniRef90_G4QFT0		G V N N I I	D D H H I I	A A T V L R	R R N A R G T N
UniRef90_R6P224		G V N N I I	D D H H I I	A A T V L R	R R N A R G G L
UniRef90_B1WY64	L T L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R R T V
UniRef90_M1PI77	T N L L L L	A I N N I I	D D H H I I	A A T V L R	R R N A R G L T
UniRef90_Q1LT15	S R L L L L	N V N N I I	D D H H I I	A A T V L R	R R N A R G T T
UniRef90_UPI000375DE16	T A P L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G G V
UniRef90_V2TRA2	S I L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G G T
UniRef90_K2DF59	S M I R L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G G V
UniRef90_I1E1C6	N P I R L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T Y
UniRef90_A0A031MFG0	R V L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_R5SL26		G V N N I I	D D H H I I	A A T V L R	R R N A R G G I
UniRef90_V4KZL3	H M I K L L	A I N N I I	D D H H I I	A A T V L R	R R N A R G L G
UniRef90_UPI0000E0E6C9		G V N N I I	D D H H I I	A A T V L R	R R N A R G T S
UniRef90_UPI0003701063		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T K
UniRef90_UPI0003B62B87	P A K L L L	A V N N I I	D D H H I I	A A T V L R	R R E A R K K V
UniRef90_UPI0003B6A1CC	P A K L L L	A V N N I I	D D H H I I	A A T V L R	R R E A R K A P
UniRef90_A4CV20		G V N N I I	D D H H I I	A A N V L R	R R Q A R R T V
UniRef90_Q0AF72		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T D
UniRef90_E1VI81	H R I L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_A6KXM3		S V N N I I	N K V A T L	R R N A R G G N	P D V V K V A L
UniRef90_N2J404	S R L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_Q1MXP5		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_V5C1L3	P I L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_E4T8E9		S V N N I I	N K V A T L	R R N A R G G N	P D V V Q V A L
UniRef90_R5N9F0	T K L L L L	S V N N I I	N K V A T L	R R N A R G G N	P D V V Q V A L
UniRef90_S6AKY3		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_D3PD31	I H L K L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G L S
UniRef90_F2LUV0	M R L L L L	G V N N I I	D D H H I I	A A T V L R	R R E A R K T N
UniRef90_D5CRD6		G L N N I I	D D H H I I	A A T V L R	R R Q A R G S R
UniRef90_R9PP01	S E I K L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T T
UniRef90_A6GP54		G V N N I I	D D H H I I	A A T V L R	R R Q A R R G H
UniRef90_C0DWX0	K M L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G T R
UniRef90_J3TFS4	S K V L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R R T A
UniRef90_Q3V8A2	P I R L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R H T P
UniRef90_K2CGF5		G V N N I I	D D H H I I	A A T V L R	R R Q A R L T R
UniRef90_D5BVU8	N A L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_H8Z270	S S L L L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_S6CFZ2		G V N N I I	D D H H I I	A A T V L R	R R Q A R G T R
UniRef90_E4TK72		G V N N I I	D D H H I I	A A T V L R	R R Q A R R G K
UniRef90_C5WD96	T N I L L L	G V N N I I	D D H H I I	A A T V L R	R R N T R G Q N
UniRef90_D4H7S4		G V N N I I	D D H H I I	A A T V L R	R R Q A R L G V
UniRef90_M4UJE3	S K L L L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G G T
UniRef90_R7JEW0		T N L L S V	N K V A T I	R R N A R G G N	P D V L K F A Q
UniRef90_A7BRG4	T S I R L L	G V N N I I	D D H H I I	A A T V L R	R R Q A R D T R
UniRef90_K9H1K4	N G I R L L	G V N N I I	D D H H I I	A A T V L R	R R N A R G G R
UniRef90_R7D211		G V N N I I	D D H H I I	A A T V L R	R R N A R G G N
UniRef90_L8LYB1	T K L L L L	G I N N I I	D D H H I I	A A T V L R	R R Q A R R T V

QUERY UniRef90_UPI00047046EE UniRef90_C7RA59 UniRef90_UPI00030454BA UniRef90_B4F044 UniRef90_G9Y6J3 UniRef90_A6FDM8 UniRef90_Q492D2 UniRef90_H2G0B3 UniRef90_K9YCR9 UniRef90_R7LWE8 UniRef90_I1YF97 UniRef90_F6DCR8 UniRef90_M1WY51 UniRef90_UPI0003955107 UniRef90_UPI0003B5B4F3 UniRef90_K0C601 UniRef90_G4SZX6 UniRef90_K6YBM8 UniRef90_Q7NWC0 UniRef90_UPI0003745B03 UniRef90_Q7VRR1 UniRef90_UPI0002556440 UniRef90_F7XXS7 UniRef90_E0WRL8 UniRef90_A4SVW5 UniRef90_I3CD87 UniRef90_UPI00035FA299 UniRef90_F5SPF5 UniRef90_W0TL06 UniRef90_K0CBJ3 UniRef90_D0L0J6 UniRef90_UPI0004151253 UniRef90_UPI00035D53B1 UniRef90_A3PDL2 UniRef90_UPI00037B0EF2 UniRef90_UPI000375B26B UniRef90_C3XAS7 UniRef90_K9SIJ1 UniRef90_F8GK16 UniRef90_Q47WP8 UniRef90_UPI000255A0BF UniRef90_K9RX53 UniRef90_H0JH15 UniRef90_F0F2X6 UniRef90_G4QFT0 UniRef90_R6P224 UniRef90_B1WY64 UniRef90_M1PI77 UniRef90_Q1LT15 UniRef90_UPI000375DE16 UniRef90_V2TRA2 UniRef90_K2DF59 UniRef90_I1E1C6 UniRef90_A0A031MFG0 UniRef90_R5SL26 UniRef90_V4KZL3 UniRef90_UPI0000E0E6C9 UniRef90_UPI0003701063 UniRef90_UPI0003B62B87 UniRef90_UPI0003B6A1CC UniRef90_A4CV20 UniRef90_Q0AF72 UniRef90_E1V181 UniRef90_A6KXM3 UniRef90_N2J404 UniRef90_Q1MXP5 UniRef90_V5C1L3 UniRef90_E4T8E9 UniRef90_R5N9F0 UniRef90_S6AKY3 UniRef90_D3PD31 UniRef90_F2LUV0 UniRef90_D5CRD6 UniRef90_R9PP01 UniRef90_A6GP54 UniRef90_C0DWX0 UniRef90_J3TFS4 UniRef90_Q3V8A2 UniRef90_K2CGF5 UniRef90_D5BVU8 UniRef90_H8Z270 UniRef90_S6CFZ2 UniRef90_E4TK72 UniRef90_C5WD96 UniRef90_D4H7S4 UniRef90_M4UJE3 UniRef90_R7JEW0 UniRef90_A7BRG4 UniRef90_K9H1K4 UniRef90_R7D211 UniRef90_L8LYB1

130 140 150 160

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

QUERY	170	180	190	200
UniRef90_UPI00047046EE	A	L F S N S H T A F A	L K E L D Q D K K T	L Q A Q F E K E L Q N L E L C A K K
UniRef90_C7RA59	G	P V		R D A E L E R I R Q A A E Y
UniRef90_UPI00030454BA	T			E E Q Q V E L V K V K H G V J E H
UniRef90_B4F044				Q T E E E E Q H K E L K V I A E A T Y
UniRef90_G9Y6J3	D	L K		E Q A Q E K E F V R I R D A V T Y
UniRef90_A6FDM8	E	G		R Q A E E F E R I A H A R F
UniRef90_Q492D2	A	T T Q N L		E Q Q A E L K K I A A G V S Y
UniRef90_H2G0B3				E Y K R I K K S V I Q Y
UniRef90_K9YCR9				T N E A E Q L A E L K R I A A C A S H
UniRef90_R7LWE8	T	P D E T		T E A S R E K E L N Q L K T S S D R
UniRef90_I1YF97				E E F E K L R E A S R L
UniRef90_F6DCR8				T T P A Q Q R V E L K K L A D A A D Y
UniRef90_M1WY51				P T A A E R A Q E L I R I R D A A E F
UniRef90_UPI0003955107	D	N		E A T R K K E L D F L A M G C K Q
UniRef90_UPI0003B5B4F3	S			D R Q S E L K K I S A A A S S
UniRef90_K0C601				E Q M R E L D Q L Q A A A S R
UniRef90_G4SZX6				L S E Q E A E Y N R I V T A A N Y
UniRef90_K6YBM8				E T S S I R S D E L K R I Q S A A Q Y
UniRef90_Q7NWC0	A			T N E A Q M H K E L K K L Q S G I R Y
UniRef90_UPI0003745B03	A			S E R E A E L A R I R E A A E F
UniRef90_Q7VRR1				A E Q Q R E L E V V K K G V E C
UniRef90_UPI0002556440				K E D R I L E Y R R I E K S I K H
UniRef90_F7XXS7				T T K Q E Q L E E L K R L Q E M A A Y
UniRef90_E0WRL8				E V S R E A E Y A R I R Q G A Q Y
UniRef90_A4SVW5	S			A E L D R D N E L E R I T K A A R Y
UniRef90_I3CD87	T			E Q V V E L E R I R K A A K F
UniRef90_UPI00035FA299				E Q R M N E L K R I Q V A T E H
UniRef90_F5SPF5				Q T Q K D A Q N E L S R I R E G A E H
UniRef90_W0TL06	N			T L A K E S T A I E H E L N R I K S A T K Y
UniRef90_K0CBJ3				V Q R Q K E L S R I I D A V S L
UniRef90_D0L0J6	D			T N E A A R L A E L E R V R E G V A L
UniRef90_UPI0004151253				A G Q K Q L N D I I R S A R D
UniRef90_UPI00035D53B1	A			E K N R K D E L D Q L A R A A E Y
UniRef90_A3PDL2	S			A E M Q K E L D Q I S E A C A Y
UniRef90_UPI00037B0EF2				E Q Y K E L Q R I I E S T H L
UniRef90_UPI000375B26B	D			P T A A S Q A E E W A R I K A A A H Y
UniRef90_C3XAS7				A A R S A E F E R I R M A V A Y
UniRef90_K9SIJ1				E S S L R H E L E R V K A G V E E
UniRef90_F8GK16				T N A I E Q Q Q E L E V L Q T G G A R
UniRef90_Q47WP8				T P E A Q E K Q F S E V K K A V A M
UniRef90_UPI000255A0BF				S S E E Q L I E L E R L T V G I K Y
UniRef90_K9RX53				E T L V A R D E E L E R L K L A S R H
UniRef90_H0JH15				E P S R D Q E L N R L I K G V A W
UniRef90_F0F2X6				E T Q E E Q A H E L Q R L A R A V E F
UniRef90_G4QFT0				A T P E Q C R N E L Q R I R E A A Q F
UniRef90_R6P224	T	P L E		E T Q A E F E L A K I K G I R Y
UniRef90_B1WY64	A			D K E L N H L K E G A A L
UniRef90_M1PI77				E L R Q K E L E S L K L G C E Q
UniRef90_Q1LT15	N	T E C I		T T E T D R E K E Y Q L I A T A A E E
UniRef90_UPI000375DE16				A E L E R I R Q A A D Y
UniRef90_V2TRA2				T L S Q D E S T I N K E Y N R I K Q A T E Y
UniRef90_K2DF59				E T D E Q Q Y T E L Q R I I H A T K Y
UniRef90_I1E1C6				E E Q Q K E L N R I I D A V I Q Y
UniRef90_A0A031MFG0				T Q E A A V A Q A E L K R I S E A A A F
UniRef90_R5SL26	T	L		T S G S E Q E Q A L R R I R E G V A Y
UniRef90_V4KZL3	D	D		E E E K A F K D L K G A A I F
UniRef90_UPI0000E0E6C9				E R E E E L D R I V E A A A T
UniRef90_UPI0003701063				T S I K Q Q T Q E L A K L K A G I Q F
UniRef90_UPI0003B62B87				D T E K D Q L D E L E K I D A A L Q H
UniRef90_UPI0003B6A1CC	E	L K		P E E M D L E E F S R L E E A A R V
UniRef90_A4CV20	T			R E E E F G K I E E T A A R L
UniRef90_Q0AF72				D Q P A E L A R L I E A T A L
UniRef90_E1V181	A			A T S E A Q Q A E L E T I R S M A A Y
UniRef90_A6KXM3				E E T K T A Y G Q I V E A V I Q Y
UniRef90_N2J404				P R N P E A A I A P F I E A A K V
UniRef90_Q1MXP5	A			A S E K S Q T L E L E R I K D G V E A
UniRef90_V5C1L3				A E M Q R E L K K I E D G A S Y
UniRef90_E4T8E9				L S P T D R E A E L A R L Q K A A H Y
UniRef90_R5N9F0				P K D R E K A I A P F V A A A K L
UniRef90_S6AKY3				A G S P E V A V R P F V E A S R T
UniRef90_D3PD31				E T E T A Q E A L A R I R T A V I E Y
UniRef90_F2LUV0	D	M E K R L		E N R L K E L K R L K L A A K V
UniRef90_D5CRD6				E L E K L I D A A K Y
UniRef90_R9PP01				V P A R E Q E L A R I Q R A A V Y
UniRef90_A6GP54				E A E Q Q A E L K K I A A A S Y
UniRef90_C0DWX0	H	T V		L G S A V E L E L S R I R K S A N F
UniRef90_J3TFS4	E	N S		R Q N E L L R L E E A A Y F
UniRef90_Q3V8A2	D	Q		R T A E C A R I S Q A A E Y
UniRef90_K2CGF5				E R S I E L E K L R H A A S V
UniRef90_D5BVU8				I L A E Q K N E L E R I V Q V A Q F
UniRef90_H8Z270				E R S R Q K E F Q R I V E A V R Q
UniRef90_S6CFZ2				Q P T R A A Q R Q R L A E G V R Q
UniRef90_E4TK72				E R D P E R K Q A E L A R I A H A L Y
UniRef90_C5WD96	D	I V		T T E D E S L E E L K K I E A A S K Y
UniRef90_D4H7S4				Q D N E F L R I R Q A V N Y
UniRef90_M4UJE3	D			A A Q R E E L S R I M F A G E K
UniRef90_R7JEW0	D	N N C H I		E M Q A L E L Q R V A S M A T Y
UniRef90_A7BRG4				P K D R D A A V A P F V E A A R F
UniRef90_K9H1K4				E Y Q R I L T A V A H
UniRef90_R7D211				E T E R A R E L E R I T A A A E
UniRef90_L8LYB1				P K D R E Q A V A P F V E A A R R
				E A S Q A K E L E D L E A G T K I

Table with columns for QUERY, UniRef90 IDs, and amino acid sequences. The table is organized into columns labeled 210, 220, 230, and 240, indicating residue positions. Various amino acids are highlighted in yellow and red.

QUERY	210	220	230	240
UniRef90_UPI00047046EE	AASRGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_C7RA59	AVSREGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI00030454BA	ASGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_B4F044	AASKGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_G9Y6J3	ASERAGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A6FDM8	AHNAGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q492D2	AVNKGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_H2G0B3	AHDAGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K9YCR9	ALSGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R7LWE8	HALLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_I1YF97	AQKLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F6DCR8	AHGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_M1WY51	ATSAGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003955107	AVDGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003B5B4F3	GSRRLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K0C601	ADSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_G4SZX6	ANSAGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K6YBM8	AHSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q7NWC0	GASLLGMLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003745B03	GCGLGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q7VRR1	ALSYGGLMI	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0002556440	AASLLGGLH	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F7XXS7	AATGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_E0WRL8	ATAQGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A4SVW5	GKSLTGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_I3CD87	AVKLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI00035FA299	AASLLGLIT	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F5SPF5	ALSQGLIV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_W0TL06	GRSLLGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K0CBJ3	GLNAGGLIV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_D0L0J6	ATDVGLQL	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0004151253	AAGVGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI00035D53B1	AHSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A3PDL2	ANDLLGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI00037B0EF2	AHSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI000375B26B	GRLGLTMT	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_C3XAS7	GTKNGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K9SIJ1	AIALGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F8GK16	GLDLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q47WP8	AHNLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI000255A0BF	AWQLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K9RX53	AQELGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_H0JH15	ATGLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F0F2X6	AAQLGGLM	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_G4QFT0	AHKLGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R6P224	AAKLLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_B1WY64	ALSLLGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_M1PI77	AYQMLGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q1LT15	ATSLLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI000375DE16	ALSVMNNE	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_V2TRA2	AGKGLIV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K2DF59	ANQFGFLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_I1E1C6	AASLLGLI	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A0A031MFG0	ARKLLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R5SL26	AQNFGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_V4KZL3	AFDFGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0000E0E6C9	AHQRGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003701063	AKAAGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003B62B87	ARELLGFIV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI0003B6A1CC	AKDLGFLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_UPI000375DE16	ARSLGFLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q0AF72	AFLRGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_E1V181	ARSLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A6KXM3	TRSLLGML	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_N2J404	GLSGLIV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q1MXP5	ALLEGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_V5C1L3	ANRITGLQL	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_E4T8E9	AKSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R5N9F0	ARSLGGLN	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_S6AKY3	GMKLLGFLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_D3PD31	AKNLLGFL	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_F2LUV0	AKSLGGLH	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_D5CRD6	AHSLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R9PP01	AADKGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A6GP54	GVAEGGLR	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_C0DWX0	ASELLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_J3TFS4	GVTLLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_Q3V8A2	AEALLGGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K2CGF5	AKLLAGLI	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_D5BVU8	GRESAGGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_H8Z270	GQSLLGGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_S6CFZ2	GQRLGGLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_E4TK72	AADLLGFLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_C5WD96	AAKLLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_D4H7S4	SRELLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_M4UJE3	AHGLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R7JEW0	AKNLLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_A7BRG4	GKALAGLLQ	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_K9H1K4	AESLLGGLKLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_R7D211	ARSLGGLV	NAAGHGGGL	NYKHNV	KKPVPVKII
UniRef90_L8LYB1	AIALAGLLR	NAAGHGGGL	NYKHNV	KKPVPVKII

	1	10	20	30	40
UniRef90_E8UDQ6	N R	I K L L	G V N I	D H V A T L	R R Q A R G T L Y P
UniRef90_UPI000375BE34	S H	V R L L	G V N I	D H H V A T L	R R Q A R G G T M Y P
UniRef90_UPI00036B9132	S I	Y L L L	G V N I	D H H V A T L	R R N E A R G G T T Y P
UniRef90_UPI0002486DE8	S S	I L L L	G V N I	D H H V A T L	R R K A R G G T I Y P
UniRef90_UPI000479A638		I L L L	G V N I	D H H V A T L	R R N A R G G G N V P
UniRef90_F3ZPL2		T K L L	S V N I	N K V A T L	R R N A R G G G N V P
UniRef90_U2C700		I D L L	G V N I	D H V A T L	R R Q A R G G G D Y P
UniRef90_V8QQY4		I D L L	G V N I	D H V A T L	R R Q A R G G G I E P
UniRef90_K2EEF6	S K	L R L L	G V N I	D H V A T V	R R N A R G G G D N P
UniRef90_S9RSJ9	P V	L L L L	G V N I	D H V A T L	R R N A R G S T Y P
UniRef90_U4TGY3		I L L L	G V N I	D H V A T L	R R N A R G S T V E P
UniRef90_L8LGG3		I L L L	G V N I	D H H V A T L	R R N A R R T V E P
UniRef90_K7T0R5		L K L L	G V N I	D H H I A V L	R E A R K I N D P
UniRef90_R7DIR6		T K L L	S V N I	N K I A T L	R R N A R G G N M P
UniRef90_UPI000349404F		I L L L	G V N I	D H H V A T L	R R Q A R R T T E Y P
UniRef90_Q0A8Y8	P	L L L L	G V N I	D H H V A T L	R R Q A R G G T A Y P
UniRef90_A9KFA7		V R L L	G V N I	D H H V A T L	R R Q A R G G V D Y P
UniRef90_B1GZL2		V K L L	G V N I	D H H V A T L	R R Q A R R K E D F P
UniRef90_A8URY8		M R L L	G V N I	D H H V A T V	R R Q A R R T F E P
UniRef90_F3KCC5	N R	I L L L	G V N I	D H H V A T L	R E A R G T R Y P
UniRef90_G5G9L8		T K L L	S V N I	N K V A T L	R R N A R G G N N P
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UniRef90_F6IH0	S R	L R L L	G V N I	D H H V A T I	R R N A R G G G E H P
UniRef90_W9BZZ5	N H	I L R L	G V N I	D H H V A T I	R R N A R G G G D H P
UniRef90_UPI000465DA16		I L L L	G V N I	D H H V A T L	R R N A R G G T T Y P
UniRef90_V4JKP9	P	L L L L	G V N I	D H H V A T L	R R Q A R G G T R Y P
UniRef90_UPI0003F857AC		T K L L	S V N I	N K I A T L	R R N A R G G N R P
UniRef90_UPI0003FDF103		M L L L	G V N I	D H H I A T V	R R N A R G G T T Y P
UniRef90_Q1QDV0		L L L L	G V N I	D H H V A T L	R R Q A R G G V G Y P
UniRef90_Q7V BK3		T S L L	G V N I	D H H I A N I	R R Q A R L A N E P
UniRef90_V8G9C2		I E L L	G V N I	D H H V A T L	R R Q A R R H C D Y P
UniRef90_V2QDZ0		I K L L	G V N I	D H H V A T L	R R Q A R M N I E P
UniRef90_J0W193		L L L L	G V N I	D H H V A T L	R R N A R G T A Y P
UniRef90_F4CE44		T K L L	S V N I	N K V A T L	R R N S R G G N N P
UniRef90_E1SRX5	S	I L L L	G V N I	D H H V A T L	R R Q A R G T D Y P
UniRef90_UPI000475C4C3	N K	L R L L	G V N I	D H H V A T I	R R N A R G G I R H P
UniRef90_UPI000477E9D0		T K L L	S V N I	N K V A T L	R R N A R G G N I P
UniRef90_UPI000476BDD0		M D L L	G V N I	D H H V A T L	R R Q A R N V V Y P
UniRef90_Q7U7S1		I L L L	G V N I	D H H I A N I	R R Q A R R T V E P
UniRef90_B3T0S2		I L L L	G V N I	D H H V A T L	R R Q V R G T S Y P
UniRef90_R41189	T K	P L L L	G V N I	D H H V A T L	R R N V R G T S Y P
UniRef90_Q1NUF0		I Q L L	A I N I	D H H V A T L	R R Q A R G G I N E P
UniRef90_W0BA46		I L L L	G V N I	D H H V A T L	R R Q A R G G T R Y P
UniRef90_W0EXM2		T K L L	S V N I	N K I A T L	R R N A R G G N N P
UniRef90_E6QV65		I Q L L	G V N I	D H H V A T L	R R Q A R G G T V Y P
UniRef90_A7HCT9	P	A R L L	G V N I	D H H V A T L	R R Q S R R T T Y P
UniRef90_C4LC01	S K	I R L L	G V N I	D H H V A T L	R R N A R G T A Y P
UniRef90_UPI00037F1F3C	R	I L L L	G V N I	D H H V A T L	R R Q A R G G R Y P
UniRef90_U7D7A4		I L L L	G V N I	D H H V A T L	R R Q A R G G V E P
UniRef90_UPI0002624B62		I A L L	G V N I	D H H V A T L	R R Q A R G G T R Y P
UniRef90_F7QP06	P	L R L L	G V N I	D H H V A T L	R R N A R G G R L P
UniRef90_UPI0003B6B2AC		L L L L	G V N I	D H H V A T L	R R N A R G G L H P
UniRef90_N9CJ48		L L L L	G V N I	D H H V A T L	R R Q A R G T N Y P
UniRef90_A6CAR2		L L L L	G V N I	D H H V A T V	R R Q A R L T Y E P
UniRef90_X7EKL1		M R L L	G V N I	D H H V A T L	R R N A R G G A Y P
UniRef90_A0L8S5		I L L L	G V N I	D H H V A T L	R R Q A R G G E R Y P
UniRef90_C6X6M9		I K L L	G V N I	D H H V A T L	R R Q A R G G T Q Y P
UniRef90_C3XKU5		M L L L	G V N I	D H H V A T L	R E A R K I N D P
UniRef90_D2TX92		I L L L	G V N I	D H H V A T L	R R N A R G T Q Y P
UniRef90_G6XIU5	S	I R L L	G V N I	D H H V A T L	R R N A R G G T F P
UniRef90_K1Z6J9		T K L L	S V N I	N K I V A T L	R R Q A R G G V S Y P
UniRef90_R5IS14		M R L L	G V N I	D H H V A T V	R R N A R R T F E P
UniRef90_O67417		T K L L	S V N I	N K F A T L	R R N A R G G N M P
UniRef90_C7PCF0		I Y L L	G I N I	D H H I A T I	R R Q V R G T D Y P
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UniRef90_K1LXA2		I L L L	G V N I	D H H V A T V	R R N A R G G T N Y P
UniRef90_R5EFX3	P	I E L L	G V N I	D H H V A T L	R R N A R G T R Y P
UniRef90_C1D7L7		I L L L	G V N I	D H H V A T L	R R N A R G T R Y P
UniRef90_A8UYZ3		M K L L	G V N I	D H H V A T I	R E A R K T F E P
UniRef90_UPI000374CFEC	N P	L R L L	G V N I	D H H V A T I	R R N A R G G D H P
UniRef90_J3Z5B6	S E	L L L L	G V N I	D H H V G T L	R R N M R N T T W P
UniRef90_UPI000470BBA2	S Y	L R L L	G V N I	D H H V A T I	R R N A R G G I H P
UniRef90_UPI000374553D	P	I F L L	G V N I	D H H V A T L	R R Q A R G G T R Y P
UniRef90_Q0APC2	S	I R L L	G V N I	D H H V A T I	R R N A R G G E H P
UniRef90_UPI0003615FB1		K L L L	G V N I	D H H I A T L	R E A R G I D E P
UniRef90_UPI00031418F8		I E L L	G I N I	D H H V A T L	R R Q A R L T A Y P
UniRef90_UPI0003B5917F		I E L L	G I N I	D H H V A T V	R E A R K T H E P
UniRef90_M5DI10	S R	I L L L	G V N I	D H H V A T L	R R Q A R G T T Y P
UniRef90_Q2BI26		I F L L	G V N I	D H H V A T L	R R Q A R G T R Y P
UniRef90_M7PPU7	S	I L L L	G V N I	D H H V A T L	R R Q A R G T R Y P
UniRef90_B9XP98		L K L L	G V N I	D H H V A T L	R E A R G Q G E P
UniRef90_V9HB07		M L L L	G V N I	D H H V A T L	R R N A R G A G Y P
UniRef90_UPI000345BAB3		I L L L	G I N I	D H H I A T L	R R Q A R G T R Y P
UniRef90_B6JGF8	P	L R L L	G V N I	D H H V A T L	R R N A R G G L L P
UniRef90_L2F8G7	N K	P L L L	G V N I	D H H V A T L	R R Q A R G I S Y P
UniRef90_C4K8H5		L L L L	G V N I	D H H V A T L	R R N A R R S V Y P
UniRef90_B6AZ75	P	L R L L	G V N I	D H H V A T L	R R N A R G G A L P
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	170	180	190	200
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UniRef90_F3ZPL2	T D P A T A A		A P F I E A A K L	
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UniRef90_S9RSJ9	E G R L		G D R D A E F E K L R D M A T L	
UniRef90_U4TGY3	Q		K Q Q H E L M R L H E A A Q Y	
UniRef90_L8LGG3		E K N R Q L E L D C L H R G C E Q		
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UniRef90_A9KFA7	D H E H N		Q Q L K R I A D A A A Y	
UniRef90_B1GZL2	E N	G T D S S E F K E E M E R L S E A S R K		
UniRef90_A8URY8	E H R F		E E A E V E I E R L K R A G E L	
UniRef90_F3KCC5		E T E A E Q L K E L Q L I S Q G V A Y		
UniRef90_G5G9L8	Q S S		E F A I K E F L E A A S Y	
UniRef90_UPI00036B9DD7		G S A L E Q A E E L G R I R H A A Q I		
UniRef90_F6IH10		E Q V A V E L K R I V D M A A L		
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UniRef90_UPI0003F857AC	N D P A S		A V A P Y A Q A A Q K	
UniRef90_UPI0003FDF103		R K Q Q Q A E L A R I R E A A A F		
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UniRef90_Q7VBK3		S W K N Q P L E E F A K I S E G V A R		
UniRef90_V8G9C2	P N		Q I E A E V Q R L K K A I S V	
UniRef90_V2QDZ0		T E S E A Q K R E L N R L K E A A V Y		
UniRef90_J0W193	E A T Q A K E L A R I A E A A S			
UniRef90_F4CE44			K N P A E A V Q P Y A E A A K L	
UniRef90_E1SRX5		E I S R D K E L V R I R E A A S Y		
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UniRef90_UPI000477E9D0		A D R E K A I A P F I E A A T L		
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UniRef90_E6QV65		R Q G I Q Q H E A L T R I H Q A V A H		
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UniRef90_C4LC01	E E E Q Q Q E		L V R I A E A A A Y	
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UniRef90_U7D7A4			A A Q K E E L E K L S E A S E Y	
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UniRef90_A0L8S5		A T Q A Q R N L E L E Q L Y R A A H Q		
UniRef90_C6X6M9		E T P E E Q A H E L A R V Q A A V A H		
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UniRef90_D2TX92	Q L K		Q E E E F K R I K Q A V I S H	
UniRef90_G6XIU5			R E L K R L Q E A A A I	
UniRef90_K1Z6J9		A T A A E I K S E L K R I A D V A N Y		
UniRef90_R5IS14		E T N P K T A I E P F I E A A R T		
UniRef90_O67417	E H R F		E E A K E E L N R K E A A I Y	
UniRef90_C7PCF0		E R A R T Q P Q N L Q L F N A Y K D T A R A		
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UniRef90_K1LXA2			E K A V K P Y V E V A H L	
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UniRef90_M5DI10		R T A S E Q Q S E L E R I R V I A V I R E		
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UniRef90_M7PPU7		E T A A E A K H E L A I I C K A A Q Y		
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UniRef90_V9HB07		K A A H D R A A E L A R I R Q A A E F		
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UniRef90_B6JGF8	A G S S K A		D A E W K R I V E G A K L	
UniRef90_L2F8G7	K N K Q Q A I T G		E V T R I Q K A V A Y	
UniRef90_C4K8H5	N Q K S S		E L K R L V D A A A Y	
UniRef90_B6AZ75	E G D M		K T R D A E L A A M T E M A A Y	
UniRef90_R5HJD8	T D N E E L		E F Q K L K Q A A E L	
UniRef90_UPI0003462491	D G D T		A K A S A E W K R I V A G A A L	
UniRef90_C1DXD9			K S V E K E L E R I K K A A K Y	

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UniRef90_UPI00036B9132 A S S S T L G L V V N A G H G L H H Y H N V V E A Q I A A A L F P G G V L N K E E L L N N I G G H S A I V A Q
UniRef90_UPI0002486DE8 A H S N L G L G L V V N A G H G L H H Y H N V V E A Q I A A A L F P G G V L N K E E L L N N I G G H S A I V A Q
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UniRef90_K7TOR5 A R M L L G L L K V V N A G H G L L L N L L H N V V A A I A R R I L P H I H E E L L N N I G G H S A I V A Q
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UniRef90_B9KCG6	P	V	L	L	G
UniRef90_K2FTK9		L	K	L	G
UniRef90_F8E5D7		L	L	L	G
UniRef90_B1X5M1	N	K	L	L	G
UniRef90_D5EKA3		T	K	L	G
UniRef90_R7P8P0		M	L	L	G
UniRef90_W6EE03		T	R	L	G
UniRef90_Q11PM4		T	N	F	S
UniRef90_R5AN34	S	R	P	L	L
UniRef90_UPI0003795ED2		P	M	K	L
UniRef90_E0URZ4		L	R	L	G
UniRef90_UPI00037352A8		L	L	L	G
UniRef90_D5X4R1		L	L	L	G
UniRef90_B5YGR4		L	L	L	G
UniRef90_UPI0003728ECF	S	D	M	K	L
UniRef90_E8Q6F4		L	R	L	G
UniRef90_A7HX45		L	L	L	G
UniRef90_UPI00036B1506		V	R	L	G
UniRef90_UPI000262CFA8	H	L	R	L	G
UniRef90_T0HV42	N	P	L	D	L
UniRef90_V5UDJ4		M	K	L	G
UniRef90_I3ILL3		T	R	L	G
UniRef90_L1N9K8		K	L	R	L
UniRef90_K2LF30		T	H	L	G
UniRef90_UPI00029B52BF		I	R	L	G
UniRef90_UPI00016C3AF3	P	L	L	L	G
UniRef90_K2C119		T	R	L	G
UniRef90_H1YHB2		M	R	L	A
UniRef90_Q0YUP2	A	C	R	L	G
UniRef90_E0TBD4		T	K	L	G
UniRef90_UPI0003B7399B	S	L	L	L	G
UniRef90_B5JJV4		M	L	L	G
UniRef90_X2HF82		T	K	L	G
UniRef90_R6W6S9		I	E	L	G
UniRef90_E5ANZ1		T	K	L	G
UniRef90_G8R066		M	L	L	G
UniRef90_UPI000369B7F8		T	K	L	G
UniRef90_UPI000414B32B		M	K	L	G
UniRef90_A0P649	R	L	T	L	G
UniRef90_U5DIR6		R	Q	A	R

	50	60	70	80
UniRef90_Q0FD76	T A H L R	E D R R R R	H I I Q D D	D D D D
UniRef90_C8PUT9	T L H L R	P D D R R R	H I I G R Y	D A D D
UniRef90_UPI000418BE60	T V H L R	P D D R R R	H I I G R Y	D A D D
UniRef90_M9RE91	T A H L R	E D R R R R	H I I V D A	D D D D
UniRef90_A3X4A2	T A H L R	E D R R R R	H I I V D A	D D D D
UniRef90_UPI0003B5034C	T V H L R	P D D G R R	H I I V K Q	R K D D
UniRef90_Q3V804	T L H L R	P D D E R R	H I I M Q R	R K D D
UniRef90_UPI00047DBE79	T V H L R	P D D E R R	H I I L R R	K D D D
UniRef90_UPI00047D5726	T L H L R	P D D E R R	H I I L R R	K D D D
UniRef90_C5EZJ7	T L H L R	E D R R R R	H I I M R D	D D D D
UniRef90_B1LTR6	T A H L R	E D R R R R	H I I R D D	D D D D
UniRef90_A5GU97	T V H L R	E D R R R R	H I I Q D D	R D D V
UniRef90_Q5R109	T V H L R	E D R R R R	H I I Q D D	R D D V
UniRef90_F0SDZ7	T V H L R	P D D E R R	H I I R Y S	D D V V
UniRef90_R6A944	T V H L R	P D D E R R	H I I R Y H	S D V V
UniRef90_W0EUJ9	T V H L R	P D D E R R	H I I R Y H	A D V V
UniRef90_U3U644	T V H L R	E D R R R R	H I I K D N	D D V V
UniRef90_J1F8G1	T I H L R	E D R R R R	H I I V Y D	S D V V
UniRef90_C6W4V5	T V H L R	P D D E R R	H I I V Y D	S D V V
UniRef90_P72776	T A H L R	E D R R R R	H I I Q E R	S D V V
UniRef90_K2KDK2	T A H L R	E D R R R R	H I I M Q K	D A D V
UniRef90_F9ZRE6	T A H L R	E D R R R R	H I I M Q K	D A D V
UniRef90_A1ZP25	T V H L R	P D D E R R	H I I M Q R	Y Q D V
UniRef90_X0U4Z0	T L H L R	E D R R R R	H I I L D D	E D D V
UniRef90_UPI00040CB9E9	T I H L R	E D R R R R	H I I L G D	E D D V
UniRef90_G5HAG8	T V H L R	P D D Q R R	H I I R Y Q	D D V V
UniRef90_K1XKS0	T V H L R	P D D E R R	H I I R Y Q	D D A V
UniRef90_UPI000288C4B6	T A H L R	E D R R R R	H I I T Y D	D D A V
UniRef90_LOW144	T L H L R	E D R R R R	H I I Q D E	D D V V
UniRef90_UPI00036454BB	T A H L R	E D R R R R	H I I Q D S	D D V V
UniRef90_W8WXV6	T L H L R	E D R R R R	H I I Q D S	D D V V
UniRef90_B3EEG4	V C H L R	E D R R R R	H I I Q D D	R D D V
UniRef90_Q1JY26	T V H L R	E D R R R R	H I I Q D D	R D D V
UniRef90_UPI0004734A48	T V H L R	E D R R R R	H I I M Q K	D A D V
UniRef90_K9UN91	T A H L R	E D R R R R	H I I M Q D	R D D V
UniRef90_D4G8B8	T V H L R	E D R R R R	H I I M Q D	R D D V
UniRef90_X7F2H1	T A H L R	E D R R R R	H I I T R D	E D D V
UniRef90_D8JR57	T A H L R	E D R R R R	H I I S D D	T D D V
UniRef90_UPI00047B6784	T A H L R	E D R R R R	H I I R D D	T D D V
UniRef90_J3CJZ8	T L H L R	E D R R R R	H I I R D A	D D V V
UniRef90_UPI0003B547E3	T L H L R	E D R R R R	H I I Q D Q	D D V V
UniRef90_D5BPN6	T V H L R	P D D E R R	H I I R Y Q	D D T V
UniRef90_D6PCN9	T A H L R	E D R R R R	H I I Q D N	D D V V
UniRef90_W3RF73	T A H L R	E D R R R R	H I I R D E	D D M V
UniRef90_J9DFU9	T A H L R	E D R R R R	H I I S D T	D D V V
UniRef90_H8KNA0	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_Q3A5V4	T I H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_A8ESJ1	T I H L R	E D R R R R	H I I H D N	D D A V
UniRef90_Q7MAP8	T I H L R	E D R R R R	H I I H D N	D D A V
UniRef90_UPI00037F1370	T V H L R	P D D E R R	H I I R Y A	D D V V
UniRef90_H5SPX3	I M H L R	E D R R R R	H I I S D D	R D D V
UniRef90_A1AZ42	T A H L R	E D R R R R	H I I S D D	R D D V
UniRef90_B9KCG6	T I H L R	E D R R R R	H I I A N E	K D L E
UniRef90_K2FTK9	T V H L R	E D R R R R	H I I N D R	D D V V
UniRef90_F8E5D7	T V H L R	E D R R R R	H I I Q D H	R D V V
UniRef90_B1X5M1	T V H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_D5EKA3	T M H L R	E D R R R R	H I I Q D S	D D V V
UniRef90_R7P8P0	T V H L R	P D D E R R	H I I K Y A	D D V V
UniRef90_W6EE03	T I H L R	E D R R R R	H I I N D D	D A K S
UniRef90_Q11PM4	T I H L R	P D D E R R	H I I R Y Q	D D A V
UniRef90_R5AN34	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_UPI0003795ED2	T M H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_E0URZ4	T L H L R	E D R R R R	H I I Q D D	R D V V
UniRef90_UPI00037352A8	T A H L R	E D R R R R	H I I R D A	D D V V
UniRef90_D5X4R1	T F H L R	E D R R R R	H I I R D A	D D V V
UniRef90_B5YGR4	T L H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_UPI0003728ECF	V C H L R	E D R R R R	H I I N D D	D A K S
UniRef90_E8Q6F4	T V H L R	E D R R R R	H I I T D R	D D V V
UniRef90_A7HX45	T A H L R	E D R R R R	H I I R D A	D D V V
UniRef90_UPI00036B1506	T V H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_UPI000262CFA8	T L H L R	E D R R R R	H I I R D E	D D V V
UniRef90_T0HV42	T A H L R	E D R R R R	H I I R D E	D D V V
UniRef90_V5UDJ4	T L H L R	E D R R R R	H I I R D D	D D V V
UniRef90_I3ILL3	T V H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_L1N9K8	T V H L R	P D D E R R	H I I R Y R	D D V V
UniRef90_K2LF30	T A H L R	E D R R R R	H I I R D A	D D V V
UniRef90_UPI00029B52BF	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_UPI00016C3AF3	T I H L R	E D R R R R	H I I Q D R	D D V V
UniRef90_K2C119	T V H L R	E D R R R R	H I I Q E R	R D V V
UniRef90_H1YHB2	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_QOYUP2	V C H L R	E D R R R R	H I I R D D	L D Q R
UniRef90_E0TBD4	T A H L R	E D R R R R	H I I Q D A	D D M V
UniRef90_UPI0003B7399B	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_B5JJV4	T V H L R	P D D A R R	H I I Q K A	D D V V
UniRef90_X2HF82	T M H L R	E D R R R R	H I I H D A	D D V V
UniRef90_R6W6S9	T V H L R	P D D E R R	H I I R Y Q	D D V V
UniRef90_E5ANZ1	T L H L R	E D R R R R	H I I V Y D	A D V V
UniRef90_G8R066	T I H L R	P D D E R R	H I I R Y N	D D V V
UniRef90_UPI000369B7F8	T L H L R	E D R R R R	H I I K D A	D D V V
UniRef90_UPI000414B32B	T V H L R	P D D Q R R	H I I Q T T	K D V V
UniRef90_A0P649	T L H L R	E D R R R R	H I I M Q D	A D D V
UniRef90_U5DIR6	T V H L R	E D R R R R	H I I Q D R	D D V V

UniRef90_Q0FD76 A L R H I P H A V C I V P E K R R E E L T T S N A G G L D V T I G N K I L G A T D N A I I A Q Q L H
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UniRef90_A3X4A2 A L R H K P H A V C C L V P E K R R E E E R T T T E G G G L D V V A G N D R V I L L A S A D Y A P L R R G
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UniRef90_UPI00047D5726 A C A I Q P Q D V C L V P E K R R Q E E L T T T E G G G L D V E I A G K Q Q I K Q E T A C K Q L A
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UniRef90_Q5R109 A I K T Q P T Y S C L V P E K R R Q E E E L T T T E G G G L D V V A G N D R V I L L A S A D Y A P L R R G
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UniRef90_UPI00040CB9E9 A C R T K P Q M A M L V P E E G R H E E L T T T E G G G L D V V A G Q R R L L A Q Q V V A R R L G A
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UniRef90_UPI000288C4B6 A L R H R P H A A C C L V P E K R R Q E E E R T T T E G G G L D V I N L S N I L Q A F I H S L Q
UniRef90_L0WI44 A L K V R P A W V C C L V P E K R R Q E E E L T T T E G G G L D V I N L S N I L Q A F I H S L Q
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UniRef90_Q3A5V4 A L K V R P D A V T L V P E K R R K E L T T T E G G G L N V A L L R L L K K H I D L L K
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UniRef90_Q7MAP8 L C E L R P H R I T L V P E K R R E E E V T T T E G G G L D L L G R F L L K S R I A Q K R
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UniRef90_W6EE03 V I E L R P H R A T L V P E K R E E E V T T T E G G L D V V K N K I K A I A Q R L K
UniRef90_Q11PM4 V E N I K P D Q V T L V P E D A V N A I T T S N A G W D T H Q F L T T E I T V E R F K
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 A D
 E R H A H
 G P V
 T Q G R D V E A P A V L T A
 A G
 S D K
 Q N N Q K L
 A G
 R G
 P L
 L H E S
 H D L P
 D G D K
 Q T
 V G D R
 A G N
 N N K
 A
 M L Y S N L A S T H H S I K E L E L S K S E L K T K L S K S I K Q I E T S S K L
 M L R S N L P K T P H A I P A L E M D R R S L S L A Y R E S V L T L Q K A A Q K
 A L Y T N I N Q T S Y A L P E L I L S K N E L K K L L E N E L Q R L R Q S A S L
 A
 D
 H
 G S K Q Q A L E L A R L S K S T A I
 E G R Q A E L E T L I Q G A D L
 Q L N R E Q A I A P F I K A A Q K
 M L Y S N L S R S R H S I K A L E L D R E S L H V K L L E A T H E L E R A S K L
 S N K
 T D P A G
 E H A P V
 M L N S S L P K S N H S V K E L E F P R Y E L S D R L E M A I E Q L K L S A R H
 E
 A A D E A A R Q R E F D R I V A G L K L
 D V
 S R
 L Y A N A L N N N N I R I I D T E Y K R I A N S I K Y
 A V A R E S A K R D A E L A R L A M A A R E
 P E T A R R T F A R V A E A V A Y
 S T P E A C E S E L E R L E E A S A F
 A E R A R E L R R L S D A A A L
 E A A R E A F A R I E R A V A L
 V S R G K M I E K L Q M G L K T
 E A V A P F V T A A E H
 T D E E R A R E L D R I R H A V I Q Y
 A V K I Y T D C A K M
 A A V E A E L E K L R T A T A R
 Q Q S H F L K I K E A V C
 A D R E K A I A P Y V E A A Q I
 L K T D F A E R D K E F E R I R E A A S F
 A L S T T P S R I E A W R A I D E A A T L
 D R E A A A L P Y R T A A I L
 Y S K E R G P E Y D R L V A G A E L
 Q R R Q Q L A R I E E A A H Q
 A E N R E E A I K P F I D A A V A
 A R Q S Q E F E R I A A G V D L
 R D P E N A V A P Y T Y A A E I
 E K Q A Y E L A R I A A G A E L
 P K D P E A A I L P F I E A A K L
 R K K E L E K I K E A I D F
 S E S Q R E L A V L A A A S E R

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

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UniRef90_Q3A5V4	A V L V G M D R A V R E M K D L V
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UniRef90_D5EKA3	A L F V G V H E R A V R E M K L A L
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UniRef90_I3ZZJ4			K	L	S	V	N	N	D	H	H	A	T	V	R	R	E	A	R	K	I	N	E	P	D	P	V	E	A	A	L	E	I	L	K	E	A	G	D	G	I			
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UniRef90_A3U6U0		S	F	L	S	L	G	V	N	V	D	H	H	A	T	R	Q	A	R	K	V	A	D	P	D	P	V	L	A	A	A	L	C	E	R	F	F	G	G	A	G	I		
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UniRef90_Q28V29			L	E	L	G	V	N	N	D	H	H	A	T	L	R	Q	A	R	G	Y	T	P	Y	P	D	L	L	A	A	L	A	E	E	F	A	G	D	G	I				
UniRef90_M1M3B6			L	E	L	G	V	N	N	D	H	H	A	T	L	R	R	N	S	R	G	E	N	M	P	D	V	L	K	A	A	L	D	C	E	R	F	G	E	G	I			
UniRef90_R5BH14			M	R	L	S	V	N	N	D	H	H	A	T	L	R	Q	A	R	K	T	F	E	P	S	P	V	F	A	A	L	T	A	Q	Q	A	G	D	G	I				
UniRef90_D3DFY8		N	T	L	R	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	G	Q	H	E	P	D	P	V	R	A	A	E	L	A	A	K	A	G	D	G	I	
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UniRef90_R7HRH5			T	N	L	S	V	N	N	K	V	A	T	L	R	R	N	A	R	G	N	F	G	I	P	S	V	I	K	A	A	S	T	C	M	R	E	A	G	A	G	I		
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UniRef90_U2YHX8		H	P	L	E	L	G	V	N	N	D	H	H	A	T	L	R	Q	A	R	G	T	P	Y	P	D	L	M	E	A	M	R	L	V	E	E	A	G	A	G	I			
UniRef90_UPI000365F60A			L	G	V	N	N	D	H	H	A	T	V	R	Q	A	R	G	L	A	S	E	P	D	P	V	Q	M	A	F	L	A	E	L	G	G	A	G	I					
UniRef90_A9BAZ9			T	R	L	S	V	N	N	K	I	A	T	L	R	R	N	A	R	G	G	N	V	P	D	V	L	R	V	A	L	D	C	E	R	F	G	G	A	G	I			
UniRef90_B2RIJ5			H	L	R	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	T	R	Y	P	D	P	V	R	A	A	L	A	Q	A	A	G	D	G	I			
UniRef90_G2IN61			R	L	S	V	N	N	D	H	H	A	T	L	R	Q	A	R	G	T	R	D	P	D	P	L	T	A	A	L	V	E	L	A	G	D	G	I						
UniRef90_D8P8F4		S	R	V	L	L	G	V	N	V	D	H	H	A	T	L	R	Q	A	R	E	T	R	Y	P	D	P	V	M	A	A	L	I	A	E	Q	S	A	G	D	G	I		
UniRef90_UPI0004725B7A			L	T	L	G	V	N	N	D	H	H	A	T	L	R	Q	A	R	R	T	V	E	P	D	P	V	A	A	A	V	L	A	E	L	A	G	D	G	I				
UniRef90_UPI0003477432			M	K	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	R	I	N	E	P	S	P	L	M	A	L	E	I	L	E	A	E	A	G	D	G	I		
UniRef90_A6DC64			M	R	L	G	V	N	N	D	H	H	A	T	L	R	Q	A	R	R	T	F	E	P	S	P	V	F	C	A	L	L	A	E	Q	A	E	A	G	A	G	I		
UniRef90_W0DD51		R	I	R	L	G	F	N	I	D	H	H	A	T	V	R	N	A	R	G	D	D	Y	P	S	P	V	R	A	A	I	I	A	Q	N	N	G	D	S	I				
UniRef90_UPI000369F081			L	G	V	N	N	D	H	H	A	T	V	R	Q	A	R	G	K	T	Y	E	P	S	P	V	A	A	A	V	L	A	E	L	G	G	A	G	I					
UniRef90_D2R2Q7		T	R	Q	R	L	S	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	T	Y	E	P	D	P	M	V	A	K	I	A	E	E	A	G	D	G	I			
UniRef90_UPI0003B340D6			R	I	R	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	G	L	H	P	D	P	F	R	A	A	E	L	V	G	A	G	G	D	G	I		
UniRef90_M7N990			T	K	L	S	V	N	N	K	I	A	T	L	R	R	N	S	R	G	G	N	R	P	S	D	V	V	Q	V	A	R	D	C	E	R	F	G	G	A	G	I		
UniRef90_B2URE7			M	L	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	A	T	E	P	S	V	L	D	A	A	Y	A	A	Q	R	G	G	D	S	I			
UniRef90_V5SF39		S	T	I	R	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	G	R	H	P	D	P	L	R	A	A	H	L	A	E	A	G	A	G	I			
UniRef90_M7N3J5			T	K	L	S	V	N	N	K	I	A	T	L	R	R	N	S	R	G	G	N	F	P	D	N	V	Q	F	A	K	D	V	Q	E	F	G	G	A	G	I			
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UniRef90_K5ZLL1			I	R	L	G	V	N	N	D	H	H	A	T	L	R	R	N	A	R	G	G	N	H	P	D	P	L	T	V	A	K	A	L	V	G	S	G	D	G	I			
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A L S V V R P D M C V T L V V P E K R R R Q E E E V T T T E G G G L D V D R R H A L I V R A G A V V I Q E K Q K
A L A N V L R P D D M V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A L A N L R P D D Y V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A K A V H P D D T V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
V L C V K P D D Q V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
I C S L K P H H R A T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
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C C R L R K P D D W A T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
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A L D V R P H H D V C C V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
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V C E V V P D D Q V T T L V V P D A E D A I T T S N A G W D T I K H K K L K E V I S E S E F K K
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A L H H R P R A V C C L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A L R L R P Q A C C C L V V P E R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A E Q V R P Q C C V C C L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
V K R V K P A Q A T T L V V P D A P D V I T T S N A G W D T N E T L R Q L V L K A A I E R L Q
A C E V K P D Q V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A A I E R L Q
V L E V K P H Q V T T L V V P D G P D A L T T S N A G W N T N K A E F L L T E I I G E F K
V L K T V P A Q V T T L V V P D A L N A I T T S N A G W D T H Q A Q L K G T L L Q K Y K
A L A V R P N A A C I L V V P E R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
I E A I R P A Q A T T L V V P D P P H V I L T T S N A G W D T K E N S L L Q D I I Q R L K T
A L K L R P A C C C L V V P E R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
V C A V K P A Q V T T L V V P D T P E Q L T T S N S G W N T K E K F L R D A I E K L K
A C R V K P T W A L T L V V P E S R E E E V T T T E G G G L N V D K G R I R D A I E K L K
V K E V G P A Q V T T L V V P D A E N E A I T T S N A G W N T H K D F L T D I C R E E F K
A C R L K P A Q A V C I L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A I K T K P D L V T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A C K L K P N A A C C C L V V P E R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
A L R V L P E E V C I L V V P E N R A E E V T T T E G G G L D V A G Q F L S P M I T V D R L Q
V L E V K P E Q V T T L V V P D A D D A I T T S N A G W D T K K H Y L T E I I G V E F K
V L E T K P H Q V T T L V V P D A L G Q L T T E G G G L D V A G Q R V L R E V I C A R L T
A C A L K P R Y V C I L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
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V C R H R P L R A T T L V V P E K R R R E E E V T T T E G G G L D V D V E N K N Q L V L K A K E I L V V I Q R L Q S
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V L E V K P E Q V T T L V V P D S V D A I T T S N A G W D T I K H K L T D V I N T F K
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V L J A N K P Q V T T L V V P D A T G Q L T T S N H G W N T I K H R L K E M V I T L F Q
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110

120

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KAEIFVSVLFFVVD	DDPQNEVQV	AKAKNLGNADRV	ELHHTTGAFAYEA
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SKGIRVSVLFFVVD	DDPQNEVQV	EHAAKATGTDRI	ELHHTTGAFAYEA
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EKKIEVSVLFFVVD	DDPQNEVQV	RASKDVLGTADRV	ELHHTTGAFAYEA
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AKGIRVSVLFFVVD	DDPQNEVQV	EGAAEVTGTDRI	ELHHTTGAFAYEA
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UniRef90_UPI000362E22D A L Y D G L E S V V K S Y L K K L
UniRef90_K1Y763 A V F V G M D Q A V R D M L A I I R Q

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UniRef90_Q8D304	S	K	L	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
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UniRef90_Q3ATB8		M	R	L	A	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_D3SLW9		M	R	L	A	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_E3I3S7	S	P	V	R	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
UniRef90_UPI0003B300A7		K	I	R	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
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UniRef90_K2QLZ8		T	K	L	S	V	N	I	D	N	K	I	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
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UniRef90_A4CPU5		V	R	L	S	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_D7JD16		I	K	L	S	V	N	I	D	N	K	I	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
UniRef90_B1ZNA6		I	L	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_A0A059FBS8	R	L	R	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
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UniRef90_B6IN04		I	R	L	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
UniRef90_F8EV81	R	L	R	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
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UniRef90_B8FJ89		L	A	V	N	V	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I			
UniRef90_R7UJA5		L	A	V	N	V	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I			
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UniRef90_A1AR94		K	L	G	L	N	V	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I		
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UniRef90_R7J1E9		L	L	S	V	N	I	D	N	K	I	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_V8C5V9	K	L	A	L	S	V	N	I	D	N	K	I	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
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UniRef90_Q10X41		L	L	S	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I		
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UniRef90_G8X7L5	N	N	C	L	L	S	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
UniRef90_I5BWD4		T	Q	L	S	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
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UniRef90_X5DLG1		T	R	L	S	V	N	I	D	N	K	I	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
UniRef90_UPI0003612230		T	Q	L	S	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I	
UniRef90_B8GPL4	T	A	L	R	L	G	V	N	I	D	H	V	A	T	T	L	R	N	S	R	G	G	G	N	P	D	N	V	V	K	T	A	L	D	E	A	F	G	G	A	G	I
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UniRef90_UPI000379ADD7	T	A	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	A	D	A	D	E	I	K	K	E	T	A	T	F	E	F	N	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L			
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UniRef90_Q8D304	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	V	L	E	L	K	K	Q	A	I	Q	T	S	R	N	L	E	G	M	A	P	T	D	K	N	F	I	E	L					
UniRef90_R4V5J2	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	A	R	D	L	K	G	V	V	K	T	E	L	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L					
UniRef90_A3XHZ2	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	A	R	D	L	K	G	V	V	K	T	E	L	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L					
UniRef90_Q3ATB8	V	C	H	L	R	P	D	D	E	R	R	H	I	R	K	D	E	D	D	L	R	L	R	A	A	V	T	T	K	L	D	L	E	M	A	M	T	T	E	E	M	L	Q	A	M	I	G	L			
UniRef90_D3SLW9	T	V	H	L	R	P	D	D	E	R	R	H	I	R	K	D	E	D	D	L	R	L	K	K	L	V	L	P	L	N	L	E	M	A	M	T	T	E	E	M	L	Q	A	M	I	G	L				
UniRef90_E3I3S7	T	A	H	L	R	P	D	D	E	R	R	H	I	R	R	D	E	D	I	R	R	I	K	A	E	I	A	A	P	L	N	L	E	M	A	M	T	T	E	E	M	L	G	I	L	E	L				
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UniRef90_K2QLZ8	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	A	R	D	L	P	G	V	I	T	T	T	E	F	N	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L			
UniRef90_W8KSZ4	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	A	R	D	L	P	G	V	I	T	T	T	E	F	N	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L			
UniRef90_A4CPU5	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	D	Q	D	A	R	D	L	P	G	V	I	T	T	T	E	F	N	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L			
UniRef90_D7JD16	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Y	S	D	V	Y	V	L	K	S	N	I	T	T	T	E	F	N	N	I	L	E	G	M	A	P	T	D	K	N	F	I	E	L				
UniRef90_B1ZNA6	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Q	E	R	D	D	V	E	R	L	R	E	S	I	A	T	R	L	N	L	E	M	A	M	A	C	Y	P	P	A	M	T	E	Q	L	I	E	L
UniRef90_A0A059FBS8	T	V	H	L	R	P	D	D	E	R	R	H	I	R	R	D	G	D	L	E	A	L	R	A	A	C	S	L	P	L	N	L	E	M	A	M	A	T	T	E	E	M	L	A	G	L	I	E	L		
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UniRef90_UPI00047EA34D	T	V	H	L	R	P	D	D	E	R	R	H	I	R	H	A	D	V	A	K	A	I	R	E	V	V	H	T	E	F	N	N	I	L	E	G	Y	P	S	D	F	I	L	R	D	L	E	L			
UniRef90_C0QU74	T	F	H	L	R	P	D	D	E	R	R	H	I	R	Q	D	S	D	V	E	K	L	R	A	V	I	T	T	L	N	L	E	M	A	M	A	T	T	E	E	M	L	K	Q	A	M	I	G	L	E	L
UniRef90_B6IN04	T	A	H	L	R	P	D	D	E	R	R	H	I	R	T	D	S	D	D	I	E	R	L	M	G	S	I	G	L	P	L	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L	
UniRef90_F8EV81	T	A	H	L	R	P	D	D	E	R	R	H	I	R	T	D	S	D	D	I	E	R	L	M	G	S	I	G	L	P	L	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L	
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UniRef90_A1AR94	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Q	D	R	D	D	L	E	L	R	R	T	V	K	T	K	L	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L		
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UniRef90_R7J1E9	T	V	H	L	R	P	D	D	E	R	R	H	I	R	R	R	S	D	V	L	A	L	R	S	R	L	R	T	E	F	N	N	I	L	E	G	Y	P	D	E	R	F	M	D	L	E	L				
UniRef90_V8C5V9	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Q	D	S	D	D	V	E	R	V	V	A	S	N	I	P	V	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L		
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UniRef90_Q10X41	T	V	H	L	R	P	D	D	E	R	R	H	I	R	Q	E	R	D	V	H	L	R	Q	T	V	Q	T	H	L	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L			
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UniRef90_K2JJ74	T	A	H	L	R	P	D	D	E	R	R	H	I	R	S	D	R	D	D	I	D	R	L	V	G	E	I	D	L	P	L	N	L	E	M	A	M	A	T	T	E	E	M	L	V	A	G	L	E	L	
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UniRef90_B8GPL4	T	L	H	L	R	P	D	D	E	R	R	H	I	R	Q	D	R	D	D	V	E	M	L	R																											

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UniRef90_R5AZG4	T	N	L	S	V	N	I	N	K	V	A	T	L	R	R	N	A	R	G	E	N	V	P	D	L	R	F	A	A	M	C	E	R	L	A	G	A	G	I		
UniRef90_UPI00036E8DB8	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	L	E	N	Y	P	N	P	V	R	A	A	L	I	A	E	N	S	G	D	S	I			
UniRef90_C6XJG3	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	A	W	P	D	P	A	R	A	A	K	A	A	R	D	A	G	A	G	I			
UniRef90_Q2RT91	L	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	D	H	P	D	P	L	R	A	A	K	I	A	A	E	A	G	D	G	I		
UniRef90_UPI00041DD1AB	T	K	L	S	V	N	I	N	K	L	A	T	L	R	R	N	S	R	G	G	N	N	P	N	L	I	Q	S	A	M	D	I	E	Q	F	G	D	G	I		
UniRef90_E1QF12	R	L	S	V	N	I	D	H	V	A	T	L	R	Q	A	R	G	I	D	E	P	D	P	V	W	A	A	V	L	A	E	K	A	G	D	G	I				
UniRef90_U3Q6V5	V	R	L	S	V	N	I	N	K	I	A	T	L	R	R	N	A	R	G	G	N	I	P	D	L	Q	V	A	R	D	V	Q	K	F	G	Q	G	I			
UniRef90_W6K9S3	P	L	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	R	H	P	D	P	V	R	A	E	L	A	Q	A	G	D	G	V			
UniRef90_K9RLM6	T	K	L	G	V	N	I	N	R	I	A	T	L	R	R	N	S	R	N	I	D	I	P	N	V	L	N	A	A	K	L	V	E	A	G	A	G	I			
UniRef90_UPI0003682D07	L	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	A	H	P	D	P	V	E	A	A	L	H	A	L	R	G	D	I					
UniRef90_S7U928	L	S	V	N	I	N	K	V	A	T	L	R	Q	Q	R	L	G	I	E	P	E	P	V	T	A	A	L	M	A	E	L	A	G	A	G	I					
UniRef90_W2UNL2	T	K	L	S	V	N	I	N	K	I	A	T	L	R	R	N	S	R	G	G	N	V	P	N	L	V	K	T	V	I	D	I	E	F	G	E	G	I			
UniRef90_K9VPJ5	T	K	L	S	V	N	I	N	K	I	A	T	L	R	R	N	S	R	N	I	G	I	P	S	V	T	E	A	A	K	T	V	I	J	A	G	A	G	I		
UniRef90_UPI00025591C2	R	L	L	G	V	N	I	N	K	I	A	T	L	R	R	N	S	R	G	G	D	V	P	N	L	V	Q	V	A	K	D	I	E	E	F	G	A	G	I		
UniRef90_S9SFQ7	L	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	T	A	H	P	D	P	V	Q	A	A	A	L	A	A	A	A	G	D	G	I		
UniRef90_UPI00047EE024	T	K	L	S	V	N	I	N	K	V	A	T	L	R	R	N	A	R	G	G	N	N	P	N	V	V	R	V	A	Q	D	C	H	F	A	G	A	G	I		
UniRef90_UPI0003B6C4F3	R	L	G	L	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	V	H	P	D	P	A	R	A	A	A	M	A	H	A	A	G	D	G	L			
UniRef90_X0S4X5	M	K	L	A	V	N	I	D	H	F	A	T	L	R	E	A	R	H	S	H	E	P	D	P	I	L	A	A	L	L	A	E	Q	A	G	D	G	I			
UniRef90_Q1YRT7	T	D	L	S	I	N	L	N	K	I	A	T	L	R	R	N	S	R	E	G	N	Y	P	D	D	V	V	F	A	K	V	C	I	D	Q	G	A	G	I		
UniRef90_UPI00036DCFE6	I	V	R	L	G	V	N	I	D	H	V	A	T	L	R	R	N	A	R	G	G	V	H	P	D	P	V	D	G	A	R	L	A	L	K	S	G	D	G	I	
UniRef90_E6W481	V	K	L	G	V	N	I	D	H	V	A	T	L	R	Q	A	R	R	G	H	D	P	E	V	V	A	A	A	A	L	A	E	L	G	S	G	D	S	I		
UniRef90_UPI0004274D02	L	R	L	G	V	N	I	D	H	V	A	T	L	R	Q	A	R	G	G	H	E	P	E	P	V	V	A	A	A	L	L	A	Q	S	A	G	A	G	I		
UniRef90_UPI0003B51A6A	L	R	L	C	V	N	I	D	H	V	A	T	L	R	R	N	A	R	M	G	I	E	P	E	P	V	T	A	A	A	I	C	E	L	A	G	D	G	I		
UniRef90_W0RM41	R	L	Y	V	N	I	D	H	V	A	T	L	R	Q	A	R	R	G	A	E	P	D	P	A	E	A	A	R	L	C	C	E	A	G	D	G	I				
UniRef90_R7F4B8	T	R	L	S	V	N	I	N	K	V	A	T	L	R	R	N	A	R	G	E	G	I	P	D	V	Q	K	F	A	T	D	C	E	A	L	G	A	G	I		
UniRef90_UPI0003B6814B	I	R	L	G	V	N	I	D	H	V																															

	50	60	70	80
UniRef90_I2FDG5	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A6EM95	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A5G1T8	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E4TS32	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B75CE3	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_Q30S57	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00036C9270	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A6EFW7	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0002627EC7	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B68748	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI000361451E	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A6DNU5	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_D4DPX6	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_C0B116	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_D3UFK8	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A4BW42	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B3C92D	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI000479CBD5	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00036DE93D	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B719BB	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00037E955A	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_R7L8H5	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003454796	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI000366D8D6	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_U1HDT4	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E8RSY0	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI000371DAE6	V F H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00047284A6	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A1WT14	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_C6BV77	I M H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_R5AZG4	T V H L R	E D R R R	H I R Y	D S D V K R I
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UniRef90_C6XJG3	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_Q2RT91	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00041DD1AB	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E1QF12	I V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_U3Q6V5	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_W6K9S3	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_K9RLM6	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003682D07	T F H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_S7U928	I V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_W2UNL2	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_K9VPJ5	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00025591C2	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_S9SFQ7	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00047EE024	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B6C4F3	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_X0S4X5	V C H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_Q1YRT7	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00036DCFEF	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E6W481	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0004274D02	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B51A6A	I V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_W0RM41	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_R7F4B8	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003B6814B	T V H V R	E D R R R	H I R Y	D S D V K R I
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UniRef90_UPI00035D35E1	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_D5AS17	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00046D7017	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0004193EDA	T V H L R	E D R R R	H I R Y	D S D V K R I
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UniRef90_H6LAH4	T V H L R	E D R R R	H I R Y	D S D V K R I
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UniRef90_R5W6C4	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_S9P562	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00034A1D0F	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_H1GT56	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00036B113B	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_T1DR31	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI000377AF83	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_I5B4G4	V V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00037CE4D3	V F H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_L1P719	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00036BE898	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_H2CCN5	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_U2FVE3	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI00035C5055	I M H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_D0MDG5	V F H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0004658512	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_A7I3Y5	T T H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_I3IA63	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_W0J7R2	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_V4P6X2	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E1Y9H3	V V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_V4Q0I0	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_Q3V7R4	T I H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0004748517	T V H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_UPI0003A3EEF4	T A H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_B3QQ93	V C H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_G2J9M9	T L H L R	E D R R R	H I R Y	D S D V K R I
UniRef90_E6PL52	T F H L R	E D R R R	H I R Y	D S D V K R I

UniRef90_I2FDG5 L C A I V P Q R I V T L V V P E K R E E I T T S E A G G L D L E S H Y I R E V L I K A F E K
UniRef90_A6EM95 V L E V K P T Q V T T L V V P E S R V D Q V L T T S E A G G L D T V K H K L L E V I K D A F E K
UniRef90_A5G1T8 A C G L L K P H A S C L V V P E D P R R G E V L T T S E A G G L D A A G Q T S F L L A P R I A S A Q L R K
UniRef90_E4TS32 V K N N N P H A S Q A T L V V P E P P R G E V L T T S E A G G L W D T H A G Q D F L L A K A D V I A S A Q L R K
UniRef90_UPI0003B75CE3 A L R L K P H A V C L V V P E K R R E E R T T T E G G L D V V A G Q D R E L L A A F I A E P L R
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UniRef90_A6EFW7 V L A N K P A Q V T L V V P E D V E G E Q I V T T S N H G W D T H Q E Y L L K E M T G F Q
UniRef90_UPI0002627EC7 A L E I Q P D D V V T L V V P E K R R Q E E I T T T E G G L D D V V I G N D D K K K A V N L M K
UniRef90_UPI0003B68748 A S E I I P D L V T F V V P E K R R Q E E I T T T E G G L D D V V I G N D D K K K A V N L M K
UniRef90_UPI000361451E A L D T R P H A S C L V V P E K R R S E E R T T T E G G L D D V G H D H L K L V T A E L S
UniRef90_A6DNU5 V C E V K P D D Q C T L V V P E P P G G A I T T T E D S G G L D W D K N Q M Q D F L Q A K V V A R L S
UniRef90_UPI000361451E A L R V R P D D Q C T L V V P E K R R Q E E I T T T E D S G G L D W D V V I G N Q Q K T A K F V T R L S
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UniRef90_A4BW42 V L E T K P Y T Q V T T L V V P E A D A L T T T S E A G G L W D T H K Q S F L L K Q E V V K Q F F Q
UniRef90_UPI0003B3C92D A L A H K P H A A C L V V P E R R R A E E R T T T E G G L D A A A G Q H L L Q R P L V A R L Q K
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UniRef90_UPI0003B719BB A L N V S P D K I C L V V P E K R R E E E R T T T E G G L D V V I R D R I R A Q M I V P F K
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UniRef90_UPI000366D8D6 A C R L K P Q A V C C L V V P E K R R Q E E L T T T E G G L D D V V G Q A L R A P A V A R L S
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UniRef90_C6BV77 A L R I D P A T V C L V V P E K R R E E L T T T E G G L D D V A G Q R R L L E Q A C R R L G
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UniRef90_C6XJG3 A L D F K P H A V C L V V P E K R R E E E R T T T E G G L D D V A H N T V L A P F I V R L N G
UniRef90_Q2RT91 A L R H R P H A A C L V V P E K R R E E E R T T T E G G L D D V V G V L A P F I V R L N G
UniRef90_UPI00041DD1AB V L A T K P A Q V T L V V P E D A L G Q L T T S N H G W N T H Q S Y L L Q S I I G V F K
UniRef90_E1QF12 A A E V G P Q S Q T L V V P E R S D N A I T T S E S G G L E V K G N Y M T D V I A K L N K
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UniRef90_Q3YSI5	A	I	E	V
UniRef90_F4KT12	V	M	Q	V
UniRef90_Q3V891	A	L	A	E
UniRef90_B8EK16	A	I	A	T
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UniRef90_D0JA45	V	L	D	I
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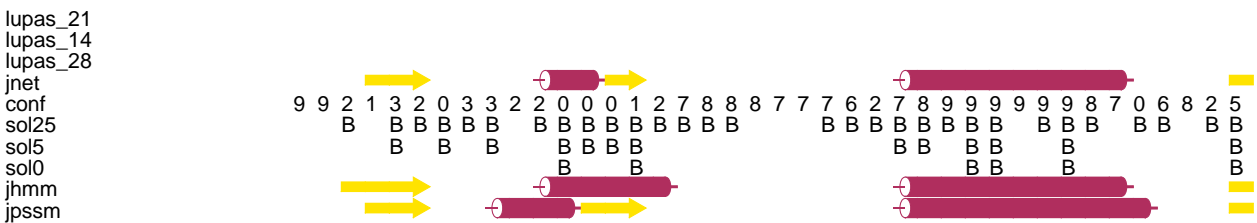
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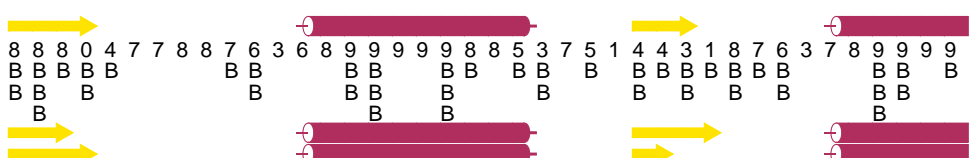
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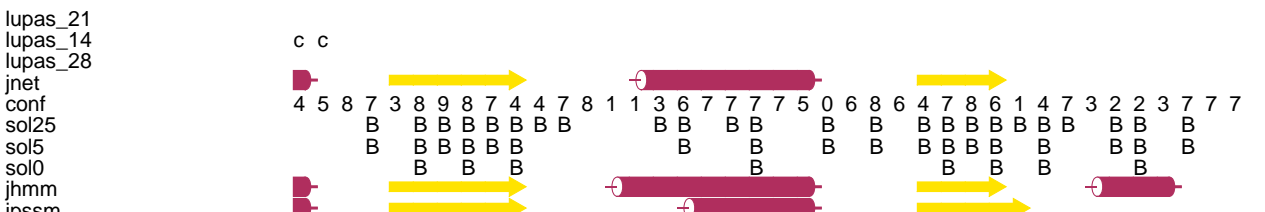
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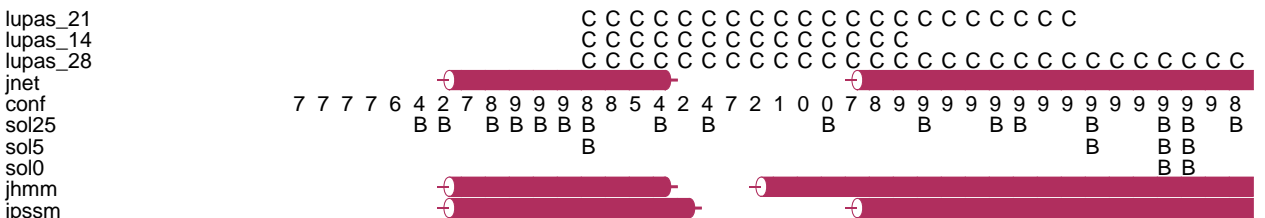
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