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 V F G R D Q E T M I G I V G Q A L S D R N L T I S S A E E S C T T G G L L G A A
 N I F G H D E D V L E S V V G K L L N A K G E T L A V A E E S C T T G G L L I A S R
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 N I F G F D N D T L L A S V A G R L L L E N K K T V S F A E E S C T T G G L L N I A A A
 L Y G S D E E T L P Q A V G R L L L A E R G M T L S T A E E S C T T G G L L V A K W
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 I F A S D D K T T M E A V V G E L L L K D R K L L T S V A E E S C T T G G G I G H R
 N I Y A T D E R T L L E E A V V D L L K D Q K L L K L S L V I E S C T T G G A L A A R
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 V L Y G E E S V T L L E E A V V N L L R Q R G E T L A T A E E S C T T G G L L A G R
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 C Y G V D D D T L L A G V V G N H L K S Q G Q T L A V A E E S C T T G G W L G E T
 F G S N D E T L L A S V V I K S L K E H S E T I S I A E E S C T T G G A L G A A
 M S H F P D D L L A R G I L S D F A A K G R M I A T A E E S C T T G G I I A G A
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UniRef90_UPI00037A4E5B	L T R I P G G S S A Y F E R G V	T Y S N Q A K I E I L G	G V P E E A I N R H G A V	
UniRef90_B1GZ34	V T D I P G G S S A Y F K Q G W	V T Y D N V T K T E Q L G	G V S S E L L G R Y G A V	
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UniRef90_Q137C4	L T D I P G G S S D V I D R G F	V T Y S N E A K H A M L G	G V D T A T L A T F G A V	
UniRef90_K9PLZ4	L T E I I S G S S D Y F W G G V	I S Y D N S V K V G L L G	G V N P E D L D K F G A V	
UniRef90_UPI00034D2012	L T E I I P G G S S D Y F L G G G	I S Y S N S V K I E Q L G	G V S A A D L A E Q G A V	
UniRef90_K6U640	L I N Y P G I S E V F L E G A V	T Y S N E A K H N R L G	G V S N E T L N K Y G A V	
UniRef90_UPI0003748E31	I T S V P G G S S A Y Y M G S I	I A Y H N D V K I Q E L G	G V K P E T L Q Q H G A V	
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UniRef90_R7RQL8	L V N Y P G I S S V F L D G R G	F V T Y S N D S K I K R L M	V M V S E E T L K Q H G A V	
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UniRef90_F8E5J9	M T D I P G G S S D V F L G S I	V V A Y D N R V K A S V V G	V K K S V L E N H G A V	
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UniRef90_R6D1R3	L T D I P G G S S Q V F L G G G	V V S Y S T N H V K Q V L L H	G V P E N L L A R C G A V	
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UniRef90_E6U8U2	I T E I P G G S S D V F E C G	V V T Y S A N R V K Q A L L D	G V D R A K T L K D Y G A V	
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UniRef90_UPI00036871A2	L T D I S G A S S V F T H G F	V V T Y S N E A K A Q L L I G	V S K D T L A A H G A V	
UniRef90_V7ICQ5	L T R L P G G S S A W F E T G F	V V T Y S N H A K Q Q L L N	V N N A A T L S H Y G A V	
UniRef90_UPI000381110D	I V I D V P G A S S D V L K Q G F	V T Y T N R A R K R K Y V M	V K K S T L K E Y G A V	
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UniRef90_UPI0003739099	I T S I S G G S S D I F R E G F	V T Y T N R A R K R K Y V M	G V D V Q L L V R H G A V	
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UniRef90_UPI000469E60A	I T Q H P G C S S V Y W G G A	V V A Y A Y E L K E S I L G	G V K E N T L T T F G A V	
UniRef90_K9STN1	I T S V A G S S A Y F L G G V	I I S Y S N E V K A Q V L K V S Q A D L Q E H G A V		
UniRef90_A9BDM8	I T S I I P G A S D V F L G G V	V V V Y S N W L K H F L G	G V P L D M L E R N G A V	
UniRef90_B9JF00	I T D I I P G G S S A V V D R G F	V V T Y T N T A K M E M L G	G V Q E Q T L A Q F G A V	
UniRef90_F0STX8	I T N E A G S S D Y Y L G G V	V V T Y A N E A K E K L I G	G V Q A E S L R K Y G A V	
UniRef90_I0R537	I I N N V P G V S D V Y K E G F	V V T Y A N E A K E K L I G	G V N K A T L K K Y G A V	
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UniRef90_R6PJP0	I V D Y A G A G S K A F V N G M V	V V T Y T N E S K S R L L G	G V K C D T L E K K W G A V	
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UniRef90_U2DKQ6	I T E I I P G G A S A V F G F G	A A T Y A D F A K Q N T L G	G I R R S Y F K K Y G A V	
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UniRef90_H1PRS6	L I D V P G V S E I F K E G I	V V V Y S Y S N D A K M K R L G	G V K K E T L E K Y G A V	
UniRef90_UPI0003F83EFC	L T E I I A G S S S S V V D R G F	V V T Y S N D A K V Q M L G	G V K L A T L A A H G A V	
UniRef90_UPI00047EB0F9	F T K I I A G S S S S V V D R G F	V V T Y S N D A K V Q M L G	G V K E E T L R D F G A V	
UniRef90_E8LNB3	I T A V I S G G S S R Y F D R G F	V V T Y S N E A K C Q M L G	G V K A Q T L Y K H G A V	
UniRef90_R5A6B4	I T D V P G G S S A V F D M G C	V V T Y A N E A K E A L S V D H G T L E R Y G A V		
UniRef90_UPI000465F7DA	I T T I I S G G S S A W F D R S F	V V T Y T N E A K Q Q M L G	G V Q S D T L Q R Y G A V	
UniRef90_L1N6G6	I T D I I P G G S S Y Y V M G S	V V V Y S Y S N D V K S R V L G	G V S E E T L S Q Y G A V	
UniRef90_UPI00040A2EAD	I T T V I S G G S S D Y F I G G I	I I T A Y A N V V K T N V G	G V N P Q D L Q A Q G A V	
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QUERY	90	100	110	120
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UniRef90_A9BDM8	S S S V A K E M A K R V R E K F Q T D W G I	A G P A G G G T Q D K P	V G	
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UniRef90_E8LNB3	S L E T A K E M A A G A L A N S N A D I A V	A G P D G G G T K E E K P	V G	
UniRef90_R5A6B4	S E E T A R E M A E G I V R R S G S D I G V	A G P D G G G T A E E K P	V G	
UniRef90_UPI000465F7DA	S S A V V K E M T A G V L A H S Q A N I A V	A G P T G G G S D E E K P	V G	
UniRef90_L1N6G6	S E E T A R E M A E G V R Q L M Q T D I G V	A G P D G G G S E E K P	V G	
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UniRef90_T0S111	S A Q T A F E M A E G A R Q S M K S D I A V	A G P G G G G S V E K P	V G	
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130 140 150 160

QUERY	L V H L A T K A R N G N V L H H E M R Y G D I G R T E I R L A T V R T A L E M L		
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UniRef90_U2NJ70	L V Y I G V Y Y K G S C L V K E F N F T G D R N R R V R V R T T M S A L D L V		
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UniRef90_F8E5J9	T V Y V A V T K D K V K V E H F V F T G D R E T V R E R S A K R A I		
UniRef90_B7JYM6	L V Y V G L A D S Q G K V E S F E C R F G E R D R E M V R S L S A Y T A L D H L		
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UniRef90_U1H7N4	L V H F A V A A R D G R I L H E Q R F G A I G R S A V Q R Q S V V E A L R M L		
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UniRef90_L8N5N6	L V Y V G I A H P D G K V E A I E L R F P S R G R N W I R K A T V M S A L D L F		
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UniRef90_UPI000362A0F7	L V Y I A V A G K N G T T I A K N V F S G K R K A I K Y R T T Q T A L L D M V		
UniRef90_UPI0004752734	L V Y I G L A A P S G E V V Y R H E F S G Y R G R D W V R Q L S A L S A L D A L		
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UniRef90_J9HA32	L V Y V V A V A D N R E T R V Y R L Q L R G S R A Q I R L R S C K Q A C W R L		
UniRef90_UPI00034C73B4	L V Y I G L A G P S G E V V C F Q H R F G A G S R D L V R L L S A R T A L L D H L		
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UniRef90_X1UL1	T A F V G L S V E G E I F S D E Y R F F S G D R E K V K L H T S E M A L D W V		
UniRef90_R5BXK6	T V F M G C C Y Q G R V R V R E F H F S G N R A K I R E Q S V V Y A L A F L		
UniRef90_UPI00039E3EAE	L V F V G I S Y K N N V Y I K K Y N L T P N R N I N R E L T V I L C L N E I		
UniRef90_R6D1R3	T V F V G L S A P E G V T V R H L T L G G D R E R I R T L S A H H A F D M L		
UniRef90_B9XHJ1	T V F I A L A T P S H T F V I N P T N R Y D R P T F K I I T C Q Q A L E L L		
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UniRef90_D2BUH5	T V W F G F S D K A G N I I T Q R M Q F D G D R H E V R L L Q A V A F A L Q T L		
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UniRef90_K6U640	R R I L
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UniRef90_D6DK12	R R
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UniRef90_B9XHJ1	R R
UniRef90_E6U8U2	R R L I
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UniRef90_UPI000381110D	R E
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UniRef90_B9JF00	I A L D Q A
UniRef90_F0STX8	R L Y L
UniRef90_I0R537	R K
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UniRef90_UPI000465F7DA	L
UniRef90_L1N6G6	H D L I R S
UniRef90_UPI00040A2EAD	R R W L M N G
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UniRef90_UPI00046EB5B7	R K
UniRef90_C2FYV5	W N L
UniRef90_V5C3L0	F E
UniRef90_R6IJC7	I D K I K A
UniRef90_U5QPM3	R R
UniRef90_E0UJU8	R R Q L
UniRef90_UPI00047EE2B3	R R Y L S G
UniRef90_UPI00047A0B9F	L Q S L K
UniRef90_UPI00037FA54E	R R
UniRef90_X1I6Z3	R M Y L
UniRef90_Q2LPL3	K R Y L A A G
UniRef90_Q0AD57	L E I L K

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UniRef90_B3R6U6	L D Q L L A I Q A G V A L A D K S L M A T A E E S S C T G G L V A A A
UniRef90_D0WEL0	I Y G D G E T L P E R V I E A A K A A G M R I G T A E E S S C T G G L I S A A
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UniRef90_I2K6L3	I I K D D L K E K A K L V I D Q A R N Q N K L I S T A E E S S C T G G L I G G T
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UniRef90_A2BUN8	D E S I A K R I G E A L R D R E E T I A V A E E S S C T G G L V G S M
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UniRef90_18XGQ0	M T D T E D T D L L A A Q Q V G Q A L G T R G W R I A T A E E S S C T G G W V A E A T
UniRef90_N6XGB4	E D E P I E V V L L G R L L T E K K L T I S T A E E S S C T G G K I A A T
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UniRef90_U2QFN0	U I P O O C 3 7 1 8 F 2 1 UniRef90_K8W1M0
UniRef90_UP10003718F21	U I P O O C 3 7 1 8 F 2 1 UniRef90_K8W1M0
UniRef90_S6ABG4	UniRef90_S6ABG4
UniRef90_B0PC32	UniRef90_B0PC32
UniRef90_UP100034654E4	UniRef90_UP100034654E4
UniRef90_R5HFF0	UniRef90_R5HFF0
UniRef90_L8BNV8	UniRef90_L8BNV8
UniRef90_R7EW52	UniRef90_R7EW52
UniRef90_D5DKU1	UniRef90_D5DKU1
UniRef90_E3GM19	UniRef90_E3GM19
UniRef90_I8SIF3	UniRef90_I8SIF3
UniRef90_K9T5T7	UniRef90_K9T5T7
UniRef90_M4VXY6	UniRef90_M4VXY6
UniRef90_B3DWA9	UniRef90_B3DWA9
UniRef90_B4SGC4	UniRef90_B4SGC4
UniRef90_G4SU01	UniRef90_G4SU01
UniRef90_J3EQ20	UniRef90_J3EQ20
UniRef90_I3BQ14	UniRef90_I3BQ14
UniRef90_I2B657	UniRef90_I2B657
UniRef90_V9XCZ0	UniRef90_V9XCZ0
UniRef90_L0GYX0	UniRef90_L0GYX0
UniRef90_UP100036D1ACE	UniRef90_UP100036D1ACE
UniRef90_B2UCD4	UniRef90_B2UCD4
UniRef90_UP100037F69B8	UniRef90_UP100037F69B8
UniRef90_G1URD2	UniRef90_G1URD2
UniRef90_R6FCR9	UniRef90_R6FCR9
UniRef90_G9PVW7	UniRef90_G9PVW7
UniRef90_G8UNZ8	UniRef90_G8UNZ8
UniRef90_J2TSV3	UniRef90_J2TSV3
UniRef90_UP100047A35FC	UniRef90_UP100047A35FC
UniRef90_J0UTZ3	UniRef90_J0UTZ3
UniRef90_D4DRS6	UniRef90_D4DRS6
UniRef90_R3EQ20	UniRef90_R3EQ20
UniRef90_F13BQ14	UniRef90_F13BQ14
UniRef90_I2B657	UniRef90_I2B657
UniRef90_V9XCZ0	UniRef90_V9XCZ0
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UniRef90_B2UCD4	UniRef90_B2UCD4
UniRef90_UP100037F69B8	UniRef90_UP100037F69B8
UniRef90_G1URD2	UniRef90_G1URD2
UniRef90_R6FCR9	UniRef90_R6FCR9
UniRef90_G9PVW7	UniRef90_G9PVW7
UniRef90_G8UNZ8	UniRef90_G8UNZ8
UniRef90_J2TSV3	UniRef90_J2TSV3
UniRef90_UP100047A35FC	UniRef90_UP100047A35FC
UniRef90_J0UTZ3	UniRef90_J0UTZ3
UniRef90_D4DRS6	UniRef90_D4DRS6
UniRef90_R3EQ20	UniRef90_R3EQ20
UniRef90_M3VBN2	UniRef90_M3VBN2
UniRef90_UP1000379BB1B	UniRef90_UP1000379BB1B
UniRef90_R8ZPX8	UniRef90_R8ZPX8
UniRef90_UP100036638838	UniRef90_UP100036638838

50 60 70 80

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UniRef90_K2DUK3	L T D V P G S S A Y F D R G F I T Y S N A A K Q E D L G V K L K T L E E F G A V
UniRef90_Q1IPQ9	L T N V S G S S R Y F G G V V V Y S N Q M K T L L A D V P P L M I E E H G A V
UniRef90_K8E177	L A S V S G V S A I F D G G V V T Y S N E S K T K V L G V S S D T I K Q Y G V
UniRef90_T0IB23	I T D V P G S S Q Y L G S I V C Y S N T V K T R D V G V P E E I A T R G A V
UniRef90_R5P8B6	I T S V A G S S S D Y F K G S V V A Y A N E V K N K V L G V D M N D I E R Y G A V
UniRef90_A3PAX8	L T S I S G S S Q V F Q G S V S Y S N E K H L D I S E E K L A K Y G A V
UniRef90_A0A024HC91	I T R I P G S S A W F D A G Y V T Y S N A Q K S A Q L G V P P E A L F P V G A V
UniRef90_B3R6U6	I T D V S G S S G W F E R G F V T Y S N E A K S T M L G V P A K L I R D H G A V
UniRef90_D0WEL0	L T S V A G S S E V V W G S V V S Y S N D V K T A R L G V S P E T L E T K G A V
UniRef90_X0SX12	L T N M A G S S N Y F Y C G A S Y S N Q A K I D L G V D E S L K K K G A V
UniRef90_W0TNB5	M T D P G S S G W F E G G F V T Y S N Q A K M D M L G V R P D T L D Q F G A V
UniRef90_U2ASA8	M T D L S G V S A V F R G G V V S Y S N Q A K I D L G V D Q A L L D E F G A V
UniRef90_UP100047B8189	L T S L P G I S A F F D R G Y V T Y S N Q S K I E D L G V P P Q R T L Q V Y G A V
UniRef90_12GDY8	I T K V P G S S A Y F W G S V V S Y S N S V K I S Q L G V K P E T L E Q F G A V
UniRef90_F7YXX7	I V S V P G A S Q V F L G V V S Y S N S V K I K V L G V S S D T L K K F G A V
UniRef90_D4IND0	F T A M P G A S A Y F L C G V V S Y S N E S K A E L G V D P A D I A R Y G A V
UniRef90_UP10003FCF06E	I T S V S G S S N Y F K G S V V S Y S Y A S E T K V N I L G V A Q E I D R H S V
UniRef90_UP100029AE5E1	I T S V A G S S E Y F K G G G V V T Y S N E M K N R L G V N E E D L S N Y G A V
UniRef90_B9QRZ4	L T D I A G S S A V V D R G F V T Y S N E A K T D M L G V P P E Q L I D K V G A V
UniRef90_Q2K8V6	L T E I S G S S A V V D R G F V T Y S N E T N A K I E L G V Q P E Q T L L R F G A V
UniRef90_R9CA61	I T S I P G A G G N I F Q G G V V C Y T N E V K H Q I L H V K E S T I Q E H G V
UniRef90_G2LJA0	L T D V P G S S S K Y F L E G V I A Y T N E A K T R L L G V P P A E L I A E H G A V
UniRef90_U1P1M3	L T A T P G A S D Y F D R G Q V T Y A Y D A K R D V L A V S R E S L D E Y G A V
UniRef90_K9RWE8	L T A I P G G S S T Y F L G G V I S Y A N P K V N V L G V D A A D A L E Q A G A V
UniRef90_B7GJN4	M T A L P T A S S V I A G G V V C Y T N E K E N V L H V P P K E I L Q T E G A V
UniRef90_F6DPZ6	L V N Y P G I S A A F M E G L V T Y S N E A K I R A L R V N P E T I E K F G A V
UniRef90_Q26F33	I T E I P G A S Q V F M G S T V T Y A T Q S K V D M L G V D A S I I N K Y S V
UniRef90_C9KQ62	L T D I A G S S A Y V M G G S V V S Y T N R I K E T L V G V Q H E T L L A H G A V
UniRef90_A4J5U0	L S D I P G A S R Y L V G G V V A Y T K Q V K E R I L G V P P A D T L A Q F G A V
UniRef90_Q2BQV8	I T A L P G G S S E W F D S G F V T Y S N Q S K K R L L G V K S S T L E E H G A V
UniRef90_UP10003B653A0	F T Q H A G S S L V F L G G V A S Y S Y E L K E S I L G V R N E T L W Q H G A V
UniRef90_I2K6L3	F T A I S G S S E V L H G S C V T Y S N D V K K N V L Q V K E S D L T T V G A V
UniRef90_R5FNN9	L T A V S G S S E V V E G G I I S Y S N D V K K N V L Q V K E S D L T T V G A V
UniRef90_F4CEY8	I T S L P G G S S A V F K G G V V S Y S N E L K E Q V L G V R A R T L A A Y G A V
UniRef90_E0QJH1	L I N I S G I S K C Y K Q G Y I T Y S N E S K I D I L G V N K E T L K K Y G A V
UniRef90_K6XVL9	I T S V A G S S D W F K Q S F V T Y S N E A K I R A L G V R Q E V L M S S G A V
UniRef90_B8FJM9	L T S V P G G S S E Y F V M S A V T Y A N T A K E T M L N V S R K T L M R F G A V
UniRef90_UP1000364DE2E	I T T I P G G S A A V F H G G V C Y S N E M K E K I L N V P H D M L E G E G A V
UniRef90_R7MD71	L T D V S G S S E Y V K L N F V T Y A N E A K H K I L G V S W N I L N N Y G A V
UniRef90_G7USD4	M T D I A G S S V W F D C G V M V A Y S Y E A K Q A L G V P P Q T L E T F G A V
UniRef90_S9PAY7	L T A V P G A S G F L M G S A V V Y T E R M K T A W A G V P P D M L E R H G A V
UniRef90_D8IFY6	I T S V S G S S E C F E G G S F V T Y S N R I K N K M I G V K E E T L L K Y G A V
UniRef90_M7CXU2	L T D R P G G S A Y V M A G L V T Y S N G A K Q S L L G V K T E T L L D T H G A V
UniRef90_A2BUN8	I T K V S G S S Q V F K G S I I S Y S N E L K Q S L N I P E D R I K K Y G A V
UniRef90_R4W8Q9	L T D V P G G S D Y F V G G I I S Y M N Q T K L Q Q I L A V S R E A L E N H G V V
UniRef90_B4CZT4	I T N V P G A S A V F V I A G Y V T Y A N A V K T S A V G V D P E L I R A H G A V
UniRef90_Q7N7A7	I S D I A G S S A Y F D R S F V T Y S N K A K H Q M I G V S E A V L Q Q Y G A V
UniRef90_UP10003650D41	I T A L P G M S T H I K G G V C Y T N E V K K Q V L G V K S D T L S R Y G A V
UniRef90_C0JB7	I T K N P G S S A F F N G A A I T Y H T Q S K I D V L G V S E A L I K T H S V V
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UniRef90_N6XGB4	V T A I P G G S S A V W F D R G F V T Y T S N E A K I D M L G V S S A H T L A T Q G A V
UniRef90_UP100047AA772	L S A V P G G S S N Y F R G S V V S Y A T Q A K I D I L G I D E N L I A K H G V V
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UniRef90_UP10003718F21	I T D L P G C S S G W F E R G F V T Y T S N E A K H Q M I G V K S E S L Q R Y G A V
UniRef90_K8W1M0	I T D I S G S S D Y F Q R G F V T Y T S N E A K H Q M I G V S A T T L A E H G A V
UniRef90_S6ABG4	V T A V P G G S S H W F D R G F V T Y T N D A K Q E M L G V S A T T L A E H G A V
UniRef90_B0PC32	I T D V P G C S A V F D C G V T Y S N E A K Q Q L T G V T A T A L E Q F G A V
UniRef90_UP100034654E4	I T D I A G S S A W F E R G F V T Y S N E A K Q Q L T G V P Q T L L D Q Y G A V
UniRef90_R5HFF0	L T D L P G G S S A L F R G G V V S Y T N A V K A G V L G V P Q T L L D Q Y G A V
UniRef90_L8BNV8	L T D I A G S S A W F E R G F V T Y S N E A K Q S M I G V S E V T L L D N G A V
UniRef90_R7EW52	I V Q V P G S S N Y F L G S V V S Y S N D V K A N V L G V S S R S S L E K Y G A V
UniRef90_D5DKU1	L T S V P S G A G E A V K G S L V A Y H Y E I K Q N I L G V K T R A E T L E R Y G A V
UniRef90_E3GM9	I L A E I P G I S A A L K M G L V T Y S N E A K M Q L K V R A E T L E R Y G A V
UniRef90_I8SIF3	I T D I S G S S D Y L I G S I V C Y T N R I K T D F V D V T P Q I I T K L G A V
UniRef90_K9T5T7	F T T V A G S S D Y F I G G V I A Y D N R V K I S L L G V N R E D L E Q F G A V
UniRef90_M4VXY6	M T D R P G G S A F Y A G G F I T Y S N D L K T R L L D P E P M L T Q Y G A V
UniRef90_B3DWA9	L T N V P G G S S A A F T Y T G W V T Y S N E A K V S Q L K V N K S L L D S V G A V
UniRef90_B4SGC4	L T D V P G G S S A W F L Q G F V V V Y S N Q A K E V K S L G V P G E L I D R Y G A V
UniRef90_G4SU01	I T E I P G G S S A W F D R G F V T Y S N A A K I Q M L G V R A E T I E N Y G A V
UniRef90_J3EQ20	I A N V S G S A D I F N G G F V T Y S L A E K A N L Q I S P E Y L H K Y G V V
UniRef90_I3BQ14	C T D M A G S S A W F E R G F V T Y S N A A K Q S M I G V S E V T L L D N G A V
UniRef90_I2B657	L T D I P G G S A W F E R G F V T Y S N E A K S A M V G V S P G T L D S R G A V
UniRef90_V9XCZ0	L T D R P G G S A Y V M G G V V S Y S N D A K S D L T D V P A E M I A E H G A V
UniRef90_L0GYX0	V T D I P G G S S G W F D R G F V V V Y S N V A K E Q M L G V D A A M I A D E G A V
UniRef90_UP100036D1ACE	L T A L P G S S Q W Y E R G F V T Y A N A T E T M E M L G V P A A L I R E H G A V
UniRef90_B2UCD4	I T D V P G G S S A W F E R G F V V Y S N E A K Q S M L G V R E G T L K K Y G A V
UniRef90_UP100037F69B8	L T S V P G G S S E W F D R A F I T Y S N E A K M E M L G V P G D M L R A H G A V
UniRef90_G1URD2	I T D Q P G G S A V F G T G L V T Y A N E A K T R L L G V P E T L L E R Y G A V
UniRef90_R6FCR9	I T S V P G G S S G Y F K G G V V A Y D N E V K K N L L G V S P E T L S A Y G A V
UniRef90_G9PVW7	L T G I P G G S A D I F W G S A V T Y I N S A K E N I L G V S P S T L E K H R G A V
UniRef90_G8UNZ8	L T S V A G S S D Y Y V G G V V S Y S N A K H K L L G V S E T D L E R Y G A V
UniRef90_J2TSV3	F T D I P G G S S A W F E R G F V T Y S N Q A K Q M V G V Q V S T L E Q H G A V
UniRef90_UP100047A35FC	L T A I P G G S A Y V F K G S V I S Y A T E T K I K V L G V S H E T L E N E G A V
UniRef90_J0UTZ3	L L G S V P G V S T V F Y G G V V T Y S N Q T K E H L G V S A D S L R Q Y G A V
UniRef90_D4DRS6	F T R L P G G S S A W F E T G F V T Y S N E A K Q R L L G V S A D S L R Q Y G A V
UniRef90_M3VBN2	F T D R A G S S A Y M G G V V F S A T Y A N E A K E A I L N V S H E T L E N N G A V
UniRef90_UP1000379BB1B	I T D V P G G S A D Y F L F S A T Y A N E A K Q R L L G V S P M D T I E T Y G A V
UniRef90_R8ZPX8	L T E Q P G G S S A Y F L G G F L T Y A N E F K T N L E V P P M D T I E T Y G A V
UniRef90_UP10003663838	I T N N A G S S E Y F L G G V V S Y S N E A K M K L L G V K E S T L E K F G A V

90 100 110 120

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UniRef90_K2DUK3	S E E T A K E M A E G A L K N N H T Q I G V A I T G I A G P D G G T K D K P P V G G
UniRef90_Q1IPQ9	S R Q V A V A L A E N F R E I T N S T I G V G I T G I A G P T G G T E D K P P V G G
UniRef90_K8E177	S E A C S I E M A E G V K Q L Y G T D I A I S F T G I A G P E T L E N Q P A G
UniRef90_T0IB23	S Q E T A E C M A Q G I R E R F Q T S I G V G I T G I A G P D G A T E N K P P V G G
UniRef90_R5P8B6	S G E V V K Q M A E G V K R V M G T D Y A V A T S G I A G P A G G T P E E K P P V G G
UniRef90_A3PAX8	S E E V C E A M A I N V K K K L R A D W A V S V S G I A G P D G G S P D K P P V G G
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UniRef90_B3R6U6	S E E V A R A M A E G A L L N S R A Q V S L S I V T G I A G P N G G G T P E E K P P V G G
UniRef90_D0WEL0	S E E T A C Q M A D G V R A L G V D V A V S V T G I A G P G G A V P P G K P V V G G
UniRef90_X0S12X	S L E V V A Q K M A L G A R I S A N T D L G L G I T G I A G P T G A T D K K P P V V G G
UniRef90_W0TNB5	S Q E V V L Q K M A T G A L A N S R A D V S V A V S G I A G P G G G T P D K P P V V G G
UniRef90_U2ASA8	S E E P V A R A M A E G A R R V L G C D L A V A S T G I A G P D P D E R G N P P V V G G
UniRef90_UP100047B8189	S E E T A L A M I M G I K N K T S H C G I S I T G I A G P T G D T P N K P P V V G G
UniRef90_12GDY8	S E E T I R Q R M A E G V R K T L G D V G I A T S G I A G P D G G T P D K P P V V G G
UniRef90_F7YXX7	S Q E C C A M E M A L G I K E K L T G A D I C V A V T G I A G P T G G G T V D K P P V V G G
UniRef90_D4IND0	S E Q V A R A Q M A E G V R R T A G A D Y G M A T T G I A G P S G G S A E K P P V V G G
UniRef90_UP10003FCF06E	S V E V A E A M A L G V Q K L M Q T D Y A L A T T G N A G P N K G D A D A E V G G
UniRef90_UP100029AE5E1	S K Q V V I E Q M A L G A L D V T E A D Y A I A T S G I A G P G G G T D D K P P V V G G
UniRef90_B9QRZ4	S K D V A I A M A E G A L A K S K A D I A A V S V T G I A G P G G G S A E K P P V V G G
UniRef90_Q2K8V6	S E E T A R Q M V H G A L L R S S A D I A V A V T G I A G P G G G S A E K P P V V G G
UniRef90_R9CA61	S E Q C C A K E L A E N V A Q L L N A D I G I S F T G I A G P D E L E G N P P V V G G
UniRef90_G2LJA0	S A E V A E A M A T G I K A R A G T T L G V G I T G I A G P D G G T D E E K P P V V G G
UniRef90_U1P1M3	S A P V A R E M A Q G V R D R A G T D W G V S A T G I A G P G G G S D G K P P V V G G
UniRef90_K9RWE8	S A I V A G Q M A Q G S K Q L L I G S D W A S I T G I A G P G G G S E L K P P V V G G
UniRef90_B7GJN4	S E R C A Q S L A E N V R K L C R S D I G I S F T G I A G P D D L E G K P P V V G G
UniRef90_F6DPZ6	S E E T A R E M A E G I A R R A G T D I G L S T T G V A G P E G G T P E K P P V V G G
UniRef90_Q26F33	S E Q V A L E M A I K A Q L K F K S D Y A V A V T G N A G P T Q G D S D A P P P V V G G
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 I T V Y D Q D L P M G E V L G T L L K E K G K T V A T A E E S C T T G G F I A H N
 N I L E L A E R A G R R L Q E R G L L L A T T E E S C T T G G G V A Q A
 I Y G Y G E D P I E V V I G R M L T E R N L T V S V A E E S C T T G G Y L S H M
 A I Y G T E Q D E L E M V T G A M L V R A G L R F T A E E S C S G G L C Q R
 L A G K V G R Q L Q D R G R R L L V T A E E S C T T G G W I A Q C
 M D A E L S R L S V E V G A A L R A A G S M L T T A E E S C T T G G G V A E T
 M S Q Y D P L D S A A R L G N A L R R E G L L V T A A E E S C T T G G G I C E A
 V F G E D K A T L A D A V A V L L L R T G [T C] V A V A E E S C T T G G G L L A K S
 M T D T E L M Q L L S K D I G Q R L L H R K A T V T A A E E S C T T G G W I A K V
 C Y G I D S E N I E Q R V V I E L L K S S G L T L A T A E E S C T T A G Y V V S K R
 I I Y G E D D D T I E K V V G E L L I R N N L K F A C A E E S C V T G G M I A S R
 N I S D A S L Q A K I I Q V A E T L N K N H F M L T T A E E S C T T G G W V A K C
 L N Q L L S I E L G N R L K Q K K K L S V T C A E E S C T T G G W V V A K V
 I Y S Y K D D T L E S A I G A I F R G S G K T L S A A E E S C T T G G K I S S L
 A I I A E E D I S P E K I L G V R L F E K G L T L G T A E E S C T T G G N I A H M
 E D I K L A A E V G Q V L Q Q K N L L A T A E E S C T T G G G V A Q A
 E L A R A V A L T L I N R G W K I A L A E E S C T T G G G L V C A T
 L H K L S I T V G Q R L K H R G Q W I T C A E E S C T T G G G I A K A
 L I S A L I S G G Y T V V A T A E E S C T T G G M I A S T R
 F I G Y G N I T L E E A V I K L K K K H Q T L S I A E E S C T T G G M I A A A
 T Q I S A Q L L A R G W M L A T A E E S C T T G G G V A Q A
 D I L D L A A Q V G R A L Q D K G L L L A T A E E S C T T G G G W L A K V
 C P P C D Q E P S A A R L G A E L M L R S G L R L A V A E E S C T T G G M I S S T
 I L G E D K E K I E D K I F N I L C K K K N Y S L S V A E E S C T T G G M I M L S
 E K Q A R E V L N T C R K K G L L T T V I E S C T T G G G L I A A N
 V Y G E G E D T F A G V V G R A L R T R G W T L A I A E E S C T T G G G L V G H M
 E L A T T L G E L L L A K N A T V A S V I E S C T T G G G V A S A
 D V I T E H S Q C O N H N Q T L S L A E E S C T T G G G L L A S M
 F Y G Y D D T S L V K E L S C R Q N G I T I S S A E E S F T G G G L I A K R
 V F A E D G E T I D T V V A G L F K K T G A T L S L A E E S C T T G G G L L A G R
 A L F S A D G R T I D Q L V L D G L R E R S W T V V G T A E E S C T T G G G V V V A A A
 D L H S L A V Q V G R V L K Q A R L T L V T A E E S C T T G G G W V A K A
 F Q Q L Q S L I D D V G A A L K A A G L W V T C A E E S C T T G G G W V A K A
 F F G Y D G E S L E E K V V R L L T E Q N L T V S V A A E S L T A G L F Q A T
 M T D P E L D T L A R R V G E A L A A R G L W L A T A E E S C T T G G G W I A E A
 M F P L E I E T L A R L L I D E A R Q K S S R L V T A E E S C T T G G G W V A Q C
 V Y T T T G E E L V I Q V V V K E L K A R K L S V S V A E E S C S G G R I L S A L
 M S I P D A D L N T Q S A A L G Q R L Q Q A S L Q L V T A E E S C T T G G G L I G K L
 V Y S Q D N E D L K D V V G R L L I S K N I T V S C A E E S C T T G G G L F A G T
 A L F G E D G A T L E E A A V V G L A T H L G K L I A T A E E S C T T G G G L V S H R
 E I K T L A A Q L G A I L T D K R L L W I T T A E E S C T T G G G V V S Y S
 C Y G K D D T S L M K E V V K L L T S K G L T I A S A E E S C T T G G G M F Q E E
 V F S A T G E S T V V L L L G M R H L T L A T A E E S C T T G G G L V A E R
 S L F P D Q D G N I L T H V E S L K D S H Q T L S V A E E S C T T G G Q I A S M
 M E V N S K S I G Q I S A L L G E A L G K K G L S M T T A E E S C T T G G G V V A S A
 M T D N E L T Q L S L R I G Q L L L A R G A S V A T A E E S C T T G G W I A K V
 F Y G Y D S T S L M N E L F R E D A R D L L S I A C A E E S C T T G G G L F Q Q E
 F L E S L A M E V G Q C L A T A E E S C T T G G W I A K C
 F Y G Y N D E T L F K K T V K M L K E K K K T I A A A E S C T T G G G L F L T E
 M Y G G E N S S L H D V L V S E L K K R N E T I A C A E E S C T T G G G A I A S L
 S V F S D A G L A L E A E V G R L L V S A K A T V A V A E E S C T T G G G L I A D L
 L Y G Y N D D S L A S S A T L I D Q G L T I S V A E E S C T T G G G L F Q S E
 L Q K L S Q K L G E H L N H H N L I T T A E E S C T T G G G V V S A A
 E E N E T I L E T V V G K L L A K Q N K T V S T A E E S C T T G G G K V V A S L
 I Y G V D D A T L A A C C L G Q E L K Q G K T I A F A E E S C S G G L A S S L
 L E R I L A D E V G G L L L L A G E R E L T T A E E S C T T G G W L S Q C
 V Y S F D D E S I E E V V F K Q L L K N N F K I G F C E T L A E E S C T T G G G L I T S R
 E E D E S I E A V I G Q K L T E L K C S T L A V A E E S C T T G G G M I A E S
 L L E S A D L G Q A M Q A Q G W Q L A L A E E S C T T G G G M V A S K
 I I G E D D D R I E E N T I Y E C L N E K P L T I S T A E E S C T T G G G V V A Q C
 L E A L A A E V V G G L L S A N G Q H L V T A E E S C S G G G W V A Q C
 Q T L S Q V G E Q L A A G E L V T A E E S C T T G G G V V A T A
 F I G Y G D A T V A S A T A D L L R A R R A T L A V A E E S C T T G G G L S A S
 S D D R R L V E E V V V G L L K D R G E W L A T A E E S C T T G G F I A H R
 L V S L A S E L G E C L R V H D N M L A T A E E S C T T G G G L L A S T
 M F P D R L R N L C L L T M D E A R E R R I K I A T A E E S C T T G G G L I A A A L
 M A E E R E S L A V G R L L R E C G R T I A C A E E S C T T G G G L I T S R
 A C F E E Q L T H L A T Q V I R L A G N H V Q L A T A E E S C T T G G G L I G A A R
 V F S V S G E K L I E E V L G K L L S R D H S T L A T A E E S C T T G G G L G H R
 M I P V D L Q A Q A A A L L E H C K Q K A G L M A T A E E S C T T G G G L I A G T
 L Y G Y G E D S L A D V V F R K L K A E K K T I A F A E E S C T T G G M A S E W
 M L D N E T L A L A K K I N D R L I L A G H H M V T A E E S C T T G G G L I A G A
 G R D L T S M E E T L G R T L L E E H S T I S T A E E S C T T G G G L V G K L
 K A V I D R A I K E G K H L V T A E E S C T T G G G L I G G A
 E S Q Q N L S Q Q L G E L L N H H K L V M T T A E E S C T T G G G V V S A A
 A S A I G D L T K R K E N L A L A E E S C T T G G G L I S F
 L G S A L K A R G L M L A T A E E S C T T G G G L I A G A
 R G R G W R L A S A E E S C T T G G G L I G G A
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 L Y G Y G E D S L A D V V F R K L K A E K K T I A F A E E S C T T G G G L V A G A
 M N D S D L D T L A A A L S N L L A A E L G A A L K V R G Y T I A T A E E S C T T G G G M V A E A
 L S N L L A A E L G A A L K V R G Y T I A T A E E S C T T G G G L I A A A A
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UniRef90_I4Z0M1	L T E I S G S S A V V E R G F V T Y S N E A K T E L G V P A D L I A T C G A V
UniRef90_D5X309	V T S V A G A S S D W F D R G F V T Y S N A A K S D L G V N P E L F V Q V G A V
UniRef90_D3L4Z2	I T R I P G A S S S V F A G S A V C Y S N L A K K I L G V P E K I L D S F G A V
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UniRef90_Q60BT0	V T S V P P G S S G W F E R G F V T Y S N E S K Q E L L G V P A R L I A A H G A V
UniRef90_UP1000370310E	V T A T P G S S A W F D C G F V T Y S N A A K Q R L L G V D A A T L Q A H G A V
UniRef90_UP10003A72808	I T R V S S G S S A W F H S G F V T Y A N H S K A R W L N V S E A D L A A H G A V
UniRef90_X0S2I2	L T D V S S G S S K Y V F R S Y V T Y S N Q S K V E L D V S A E M L E Q H G A V
UniRef90_D8MW08	L T D I A G S S S Q W F E R G F V T Y S N E A K A D L L V G T A D S L A R F G A V
UniRef90_R6NQ60	V T D I L P G A S S S V F G C G A V T Y S N E K E K L G V R H E T L E A H G A V
UniRef90_V7IAJ1	L S Y E G G M S R V F D E A F V T Y S N E S K T R Y L G V E E G I L K R H G A V
UniRef90_F5SUE8	C T D L A G S S S W F E R G F V T Y S N Q A K Q D Q L L G V Q L T S L Q Q F G A V
UniRef90_D3V9U3	I T D I A G S S A S Y F N R G F V T Y S N D A K H E M L G V S L A S L A Q F G A V
UniRef90_R5B9D4	I T S V P G S S E Y Y L G S V T S Y A I P V K E K V L G V P G S T I N E H G V
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UniRef90_UP100047381F0	I T E I A G S C S E W Y D C G F V T Y S N D S K T E L D V S A V L I A Q H G A V
UniRef90_M1SEE7	L T D L A G S S S D W L E R G Y I T Y S N A A K S E C L G V P V E T L E S F G A V
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UniRef90_A8F4W4	L V N I P G A S E V F L G A V A Y N N S V K R N L N V S N K I L E K Y G A V
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UniRef90_W0V1R0	V T E I I A G S T G W F D C G F V T Y S N A S K T E L L G V P A A L I A Q V G S V
UniRef90_F9UA14	A T D L A G S S S A W L D R R G F V T Y S N A A K Q E M L G V R A E T L V A Q G A V
UniRef90_U7VAU1	F V T I P G I S E Y F Q E G L I T Y S N E S K V S R L K V D K N L I E K Y G A V
UniRef90_J1JN34	L T N I I A G S S S D I L D C G F V T Y S N D E S T K T R L V C H I K T H G A V
UniRef90_X0SNV5	I T K E P G A S S D Y L L L D A V T Y A N S A K Q S V L G V D E E V L R G H G A V
UniRef90_H5TB30	I T E I I A G S S S Q W F N Q A W V T Y S N D A K H S L V G V D A D V I D S F G A V
UniRef90_D1AZQ2	F T Q H S G I S S S V F H G G L V T Y D N A I K E S W L G V S H E T I E R F G A V
UniRef90_A7Z4W4	V T D L S G A S S Q L F A G G G V V C Y S D S V K Q H V L G V K A E T L A E S G A V
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UniRef90_W7CXM5	L A S V P G A S R V L R G G L V T Y A T D T K T S L G V P E E L L T E N G V
UniRef90_N6ZQC2	V T A I I A G S S S G W F D R G F V T Y S N A A K A D M L G V R D D T L D T H G A V
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UniRef90_I2F4V7	L T S V P G C V S D V F P G A V S Y S N D I K I S L K V N E D T L N R H G A V
UniRef90_R7CTL6	L T D L P G C S S D Y F K G S A V T Y W N E A K E N V L H V V D P E V L E K Y T A V
UniRef90_10KMD7	M T D I I A G S S A F F D C G M V V Y S Y E A K Q R L G V R A Q T L E Q F G A V
UniRef90_R6FK07	L T D I P G I S C V F D R G V T Y S N K A M K M E E L G V K E D T L E T F G A V
UniRef90_UP1000463BFFEE	L T D V P G S S R A F T F G W I A Y A N E A K V T E L N V K R D T L E E F G A V
UniRef90_E6RQ27	L T D T P G S S S A Y I D R A F V T Y S N N A K H E L N V K R D T L E E F G A V
UniRef90_UP10002F45E66	L T T I S G A S Q I F K G G V S Y S N E A K I N V L K V N K E T I E K Y G A V
UniRef90_E8V6U2	L T R V P G S S R T F L G G A V V Y A D E M K T K F A D P A E L I R Q H G A V
UniRef90_UP1000469B594	I T G I S G S S S E V F N G S V V S Y S N D I K K A W L G V S D E T F K N Y G A V
UniRef90_U3ATL4	I T D I A G S S A W F D R A F I T Y S N Q A K M E M L D N S V V L E S H G A V
UniRef90_D4HX63	L T D V A G S S A W F Q R G F V T Y S N E A K Q Q M T G V T E Q S L A H F G A V
UniRef90_UP10002EE4362	I T S I S G A G D V F K G G V V C Y A T E V K N H V L K V K K E T T D T D G A V
UniRef90_UP10003B732ED	L T D V A G S S S E W F E R G F V T Y S N Q A K M E M L G V K A E T L N R Y G A V
UniRef90_C5D9G1	L T A I P G A S S Q V V R G G V V C Y A N E V K E K V L H V P A S V L T T D G A V
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UniRef90_C9NZT3	I T D I A G S S A W F D R A F I T Y S N E A K M E M L G V A E P T L V S H G A V
UniRef90_A5F9Y3	L A S V Q G A S A S Y F K G S V V S Y A T E A K V N V L G V S Q D L I D Q F S V
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UniRef90_A0A011NV13	I T A V A G S S S R W F D R G F I T Y S N E A K T D L G V D A G T L A S H G A V
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UniRef90_G2J501	V T D I A G S S A W F G Y G F V T Y S N E A K R Q M L G V R A E T L A E D G A V
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UniRef90_C7RQE3	L T A I I A G S S S G W F D R G F V T Y S N Q A K I L E M L G V P P A A T L A T H G A V
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UniRef90_E6VZM3	L T D T P G S S D W F A G S V V A Y S N A V K E R L L G V D P A L L R D H G A V
UniRef90_G0VNY0	I T D V P G A S D Y F R G S A G T Y C N E M K E K I L G V S H D T L E T Y T A V
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UniRef90_C7MNG5	L T S I P G S S A S V V G G A I T Y S N E M K Q Q L G V K A A T L V E Y G A V
UniRef90_X1SN09	I T N V P G S S D Y F L Q G V Q V Y S N A V K E R L L G I S E A L I E T Q G A V
UniRef90_K2JT62	L T E I A G S S A V V D R G F V T Y S N E A K A E M L G D P A L L I A T H G A V
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UniRef90_G4R8Z6	I T S V S G G S S A M L Y G G F V T Y S N E A K K A M I G V P Q D M L D A Y G A V
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UniRef90_F3Z345	L T E E V S G G S S D W F R G G V V A Y A N V K I K L N V P Q E T L L T H G A V
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UniRef90_D7DL74	V T S V A G S S A W F D R G F V T Y S N Q A K V E M L G V S T Q T L D I F G A V

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UniRef90_U7VAU1
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UniRef90_X0SNV5
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	90	100	110	120
S A P	V A E A M A K Q V L D L F K S D Y A I	I A T T G N A G P D K G D S V A E V	I A T T G N A G P D K G D S V A E V	I A T T G N A G P D K G D S V A E V
S K F	V V E A M A T G A R E R L N A D Y A I	I I A T S G V A G P P G G G T E D K P	S K F V V E A M A T G A R E R L N A D Y A I	S K F V V E A M A T G A R E R L N A D Y A I
S E P	V A R A M A E G A L A Q S Q A D V A V	S V G I T G V A G P P G G G T E D K P	S E P V A R A M A E G A L A Q S Q A D V A V	S E P V A R A M A E G A L A Q S Q A D V A V
S P E	V A S A M A L G A R Q R A G V E V A V	S V G I T G V A G P P G G G T E D K P	S P E V A S A M A L G A R Q R A G V E V A V	S P E V A S A M A L G A R Q R A G V E V A V
S E E	C A L A M A S G A M R I F K A D Y A V	S V S I T G V A G P P G G G T E D K P	S E E C A L A M A S G A M R I F K A D Y A V	S E E C A L A M A S G A M R I F K A D Y A V
S E E	V A R E M A L G A L I R C K S H Y S L	S V S I T G V A G P P G G G T E D K P	S E E V A R E M A L G A L I R C K S H Y S L	S E E V A R E M A L G A L I R C K S H Y S L
S E E	V V R E M A E G A R V E A D A D F A I	S V S I T G V A G P P G G G T E D K P	S E E V V R E M A E G A R V E A D A D F A I	S E E V V R E M A E G A R V E A D A D F A I
S E E	C A M E M A I G V S N L F K A D M A I	I A T T G I A G P P S G G S K D K P	S E E C A M E M A I G V S N L F K A D M A I	S E E C A M E M A I G V S N L F K A D M A I
S E E	A V V R E M A H G A L A Q L K T D Y I	I A V S G I M G P D G G G T P E K P	S E E A V V R E M A H G A L A Q L K T D Y I	S E E A V V R E M A H G A L A Q L K T D Y I
S K E	T A A A M C R G A L A N S R A T V A	I A V S G I M G P D G G G T P E K P	S K E T A A A M C R G A L A N S R A T V A	S K E T A A A M C R G A L A N S R A T V A
S E E	T I T E M E M A N L V R A Y N T S I G	V A V A T S G I A G P P D G G S P D K P	S E E T I T E M E M A N L V R A Y N T S I G	S E E T I T E M E M A N L V R A Y N T S I G
S E E	A V A Q A M A R G V R L A T G A D L A	V A V A T S G I A G P P D G G S P D K P	S E E A V A Q A M A R G V R L A T G A D L A	S E E A V A Q A M A R G V R L A T G A D L A
S E E	E T V I A M V G G A L A H S R A D C A	V A V A T S G I A G P P D G G S P D K P	S E E E T V I A M V G G A L A H S R A D C A	S E E E T V I A M V G G A L A H S R A D C A
S E E	V A R E M V R G A L A A A S A D V A L	S I T G V A G P P D G G G T E T K P	S E E V A R E M V R G A L A A A S A D V A L	S E E V A R E M V R G A L A A A S A D V A L
S E E	P V V R A M A L G A T E A G E A D L A	S I T G V A G P P D G G G T E T K P	S E E P V V R A M A L G A T E A G E A D L A	S E E P V V R A M A L G A T E A G E A D L A
S E E	V A R A M A T G C C R R K A G V D Y A I	G I T G M A G P T G G T A E K P	S E E V A R A M A T G C C R R K A G V D Y A I	S E E V A R A M A T G C C R R K A G V D Y A I
S E E	P V V R E M A E G A R Q Q A R A N F A L	G I T G M A G P T G G G L A E K P	S E E P V V R E M A E G A R Q Q A R A N F A L	S E E P V V R E M A E G A R Q Q A R A N F A L
S E E	T A R E M A A G V V R R L S G A D I G I	I S V T G V A G P P D S D G T D K P	S E E T A R E M A A G V V R R L S G A D I G I	S E E T A R E M A A G V V R R L S G A D I G I
S E E	T C H A M A K G L L E N T G A S I V G	I S V T G V A G P P E G G S P E K P	S E E T C H A M A K G L L E N T G A S I V G	S E E T C H A M A K G L L E N T G A S I V G
S Q T	V A E E M A L G A L N N S C A D I S	V A L T G I A G P P D G G G T E T K P	S Q T V A E E M A L G A L N N S C A D I S	S Q T V A E E M A L G A L N N S C A D I S
S E E	V A E E M A M G A L K I A E A D F A I	V A L T G I A G P P D G G G S E E K P	S E E V A E E M A M G A L K I A E A D F A I	S E E V A E E M A M G A L K I A E A D F A I
S E E	V C E M A L G A L S A A K A D L A I	S V S G I A G P P D G G S E Q K P	S E E V C E M A L G A L S A A K A D L A I	S E E V C E M A L G A L S A A K A D L A I
S Y E	T A T E M A K G V R K Q A K A D F G I	A S T G I A G P P D G G G S P Q K K P	S Y E T A T E M A K G V R K Q A K A D F G I	S Y E T A T E M A K G V R K Q A K A D F G I
S Q Q	C V A E M A E G V V R K I M K S D L A L	A V S G I A G P P T G G S E K K P	S Q Q C V A E M A E G V V R K I M K S D L A L	S Q Q C V A E M A E G V V R K I M K S D L A L
S P E	P V A R A M A E G A V A H S R A Q V S	V A V A T V G V A G P P T G G S A E K P	S P E P V A R A M A E G A V A H S R A Q V S	S P E P V A R A M A E G A V A H S R A Q V S
S E E	V A A V M A S G A L A N S N A H V A I	S T T G I A G P P T G G G S A E K P	S E E V A A V M A S G A L A N S N A H V A I	S E E V A A V M A S G A L A N S N A H V A I
S E A	V V I A E M A L G A L R H S Q A E V A	I S G V A G P P G G G S P E E K P	S E A V V I A E M A L G A L R H S Q A E V A	S E A V V I A E M A L G A L R H S Q A E V A
S S E	V A E E M A Q G A L A H S D A H V A I	I S G V A G P P G G G T Q E K P	S S E V A E E M A Q G A L A H S D A H V A I	S S E V A E E M A Q G A L A H S D A H V A I
S E E	K V A E K M V N G L T T D V G I	S T T G V A G P P G G G T Q E K P	S E E K V A E K M V N G L T T D V G I	S E E K V A E K M V N G L T T D V G I
S K E	V S L A M A V V G G L K H S Q A D I V A	S V T G V I A G P P G G G G S L N K P	S K E V S L A M A V V G G L K H S Q A D I V A	S K E V S L A M A V V G G L K H S Q A D I V A
S P E	E C A C R M A E G A R R V S G A D V A	L A I T G I A G P P A G G S D T K P	S P E E C A C R M A E G A R R V S G A D V A	S P E E C A C R M A E G A R R V S G A D V A
S Q Q	V V I Q M A E K G A A L A K A D L C	S I S G V A G P P G G G S E D D K P	S Q Q V V I Q M A E K G A A L A K A D L C	S Q Q V V I Q M A E K G A A L A K A D L C
S E E	C V R E M L E G V L N A S L S D Y A I	I A T S G V I A G P P T G G S T E K P	S E E C V R E M L E G V L N A S L S D Y A I	S E E C V R E M L E G V L N A S L S D Y A I
S K E	C A K E L A A G V R K L T G S D I	S F T G V I A G P P D P Q E G H A P	S K E C A K E L A A G V R K L T G S D I	S K E C A K E L A A G V R K L T G S D I
S A E	V A M A M A R G A R E K S G S D L A L	A V T G I A G P P E G G S A E K P	S A E V A M A M A R G A R E K S G S D L A L	S A E V A M A M A R G A R E K S G S D L A L
S A E	V A R A M A E G A L E A L G V A V A L	S T T G V I A G P P G G G S E E K P	S A E V A R A M A E G A L E A L G V A V A L	S A E V A R A M A E G A L E A L G V A V A L
S R P	V A R A M A E G A L R N S H A R V A L	S I T G V I A G P P G G G T A R A P	S R P V A R A M A E G A L R N S H A R V A L	S R P V A R A M A E G A L R N S H A R V A L
S E Q	V V R E M A R G A R Y A A G A D V A	V S I S G V I A G P P D G G S E A A K P	S E Q V V R E M A R G A R Y A A G A D V A	S E Q V V R E M A R G A R Y A A G A D V A
S E A	T A K T M A N N V R Q Q T A A N I G	F T G V I A G P P G G G S H D G E P	S E A T A K T M A N N V R Q Q T A A N I G	S E A T A K T M A N N V R Q Q T A A N I G
S E A	T V G E M A A G A L D Q S R A D L A	V S F T G V I A G P P G G G S P L K P	S E A T V G E M A A G A L D Q S R A D L A	S E A T V G E M A A G A L D Q S R A D L A
S E E	V A R M M A E G A L E A S N G H V A	V S I T G V I A G P P G G G S P L K P	S E E V A R M M A E G A L E A S N G H V A	S E E V A R M M A E G A L E A S N G H V A
A E A	T A R A M A Q G A V E H S R A Q W S	I T G I A G P P A G G T P E K P	A E A T A R A M A Q G A V E H S R A Q W S	A E A T A R A M A Q G A V E H S R A Q W S
S E E	V A A E M A A G T K I L F G T D I G	P T G G T E T K P	S E E V A A E M A A G T K I L F G T D I G	S E E V A A E M A A G T K I L F G T D I G
S E N	V A K E M A E G A R R L Y K S D I	S V S T T G Y A G P P G S G E R G E P	S E N V A K E M A E G A R R L Y K S D I	S E N V A K E M A E G A R R L Y K S D I
S R E	T V L E M V S G A L V N S G A G I	V A V A T V G I A G P P G G G S P D K P	S R E T V L E M V S G A L V N S G A G I	S R E T V L E M V S G A L V N S G A G I
S S Q	T A E E M A E G L A E K T G S D L C	S V S T G V I A G P P G G G S L Q K P	S S Q T A E E M A E G L A E K T G S D L C	S S Q T A E E M A E G L A E K T G S D L C
S A E	V A E A M A R G A L R R S G A D V A	V A V A T V G I A G P P G G G S L Q K P	S A E V A E A M A R G A L R R S G A D V A	S A E V A E A M A R G A L R R S G A D V A
S E Q	T V I E M A A G A C K A A N A D I G	I A L S G V I A G P P G G G A T E G K P	S E Q T V I E M A A G A C K A A N A D I G	S E Q T V I E M A A G A C K A A N A D I G
S E Q	C A K E M A E Q V R S L L G T D I G	I S F T G V I A G P P G E P L E G	S E Q C A K E M A E Q V R S L L G T D I G	S E Q C A K E M A E Q V R S L L G T D I G
S E E	V A R A L A E G I R R R T G A S L G	I G T G I A G P P G G G P D K P	S E E V A R A L A E G I R R R T G A S L G	S E E V A R A L A E G I R R R T G A S L G
S E E	C I R M E G I L K A S S S D F A L	S V S T G V I A G P P G G G S L Q K P	S E E C I R M E G I L K A S S S D F A L	S E E C I R M E G I L K A S S S D F A L
S E P	V V K A M V E G A L R H S D A H I G	A A I S G V I A G P P G G G S V D K P	S E P V V K A M V E G A L R H S D A H I G	S E P V V K A M V E G A L R H S D A H I G
S E Q	V V S E M A R G A L R R E A S V Q Y A I	I S V S G V I A G P P D G G S V E K P	S E Q V V S E M A R G A L R R E A S V Q Y A I	S E Q V V S E M A R G A L R R E A S V Q Y A I
S A A	C A M E L A E N V R S I Q A D I G	I S F T G V V A G P P G G G T P D K P	S A A C A M E L A E N V R S I Q A D I G	S A A C A M E L A E N V R S I Q A D I G
S E E	V A V I A M A G A L A H S R A Q V A	V A V A T V G V A G P P G G G S A E K P	S E E V A V I A M A G A L A H S R A Q V A	S E E V A V I A M A G A L A H S R A Q V A
S E E	R C A Q L L A E N V R T L C H A D I G	I S F T G V V A G P P G G G T P D K P	S E E R C A Q L L A E N V R T L C H A D I G	S E E R C A Q L L A E N V R T L C H A D I G
S E E	K T A Q L L A E H V R E K L G A T Y G I	I S V T G V V A G P P D P S E G K K P	S E E K T A Q L L A E H V R E K L G A T Y G I	S E E K T A Q L L A E H V R E K L G A T Y G I
S E E	T V K E M A D G V R V A G A T F G I	V A V A T S G V I A G P P D P S E G K K P	S E E T V K E M A D G V R V A G A T F G I	S E E T V K E M A D G V R V A G A T F G I
S E E	C A I A M A T R V K K M F T D V G	V A V A L T G V A G P P G G G P A G H D E H P	S E E C A I A M A T R V K K M F T D V G	S E E C A I A M A T R V K K M F T D V G
S E E	T V I E M V Q G A I K H S S A N I G	I S G V I A G P P G G G S T E K P	S E E T V I E M V Q G A I K H S S A N I G	S E E T V I E M V Q G A I K H S S A N I G
S A E	V A A A M A L N V K N I L K T D Y A I	I A T T G N A G P P S K G D S E E A E I	S A E V A A A M A L N V K N I L K T D Y A I	S A E V A A A M A L N V K N I L K T D Y A I
S R E	T A C E M A L G V R K Q L G S D Y G	S V S I T G N A G P P G G G S T S S K P	S R E T A C E M A L G V R K Q L G S D Y G	S R E T A C E M A L G V R K Q L G S D Y G
S E A	A A A A M A L G A L A R S P A D W A	I A V A T G I A G P P A G G T P E K P	S E A A A A M A L G A L A R S P A D W A	S E A A A A M A L G A L A R S P A D W A
S E Q	T A I E M A Q G L K N K D N D I A	V A V S V T G V I A G P P T G G T E T K P	S E Q T A I E M A Q G L K N K D N D I A	S E Q T A I E M A Q G L K N K D N D I A
S E R	T V R E M A A G A L L H S G A D W A	V A V A T V G V I A G P P A G G S A A K P	S E R T V R E M A A G A L L H S G A D W A	S E R T V R E M A A G A L L H S G A D W A
S K Q	V A E T M A K N V R L F D S D Y A I	S T T G N A G P P L K G D S D A E V	S K Q V A E T M A K N V R L F D S D Y A I	S K Q V A E T M A K N V R L F D S D Y A I
S P E	P V A R A M A M G A L Q R S H A N I S	V A V A T V G V I A G P P G G G S A L K P	S P E P V A R A M A M G A L Q R S H A N I S	S P E P V A R A M A M G A L Q R S H A N I S
S E E	V A R E M L A G L K T D I G	I S T T G V I A G P P G G G T K D K P	S E E V A R E M L A G L K T D I G	S E E V A R E M L A G L K T D I G
S E A	A T A A A M A L G A L R H S H A D W A	S I S G V I A G P P G G G S P S R P	S E A A T A A A M A L G A L R H S H A D W A	S E A A T A A A M A L G A L R H S H A D W A
S E E	T V V E M V H G A L K H S Q S V G	S I S G V I A G P P G G G S A E K P	S E E T V V E M V H G A L K H S Q S V G	S E E T V V E M V H G A L K H S Q S V G
S Q T	A C E M A E G V R L C H A D I G	S T T G V I A G P P T G G T E K P	S Q T A C E M A E G V R L C H A D I G	S Q T A C E M A E G V R L C H A D I G
S E P	V V A A M A E G C L R V S G A D H	I A V A T V G I A G P P T G G T S E K P	S E P V V A A M A E G C L R V S G A D H	S E P V V A A M A E G C L R V S G A D H
S E P	P V V L A M A Q G A L K A V G A D I S	V A V A I S G V I A G P P S G G T P D K P	S E P P V V L A M A Q G A L K A V G A D I S	S E P P V V L A M A Q G A L K A V G A D I S
S A Q	T A A E M A D G S R R L Y G T D L A	V S T T G V I A G P P G G G T P D Q P	S A Q T A A E M A D G S R R L Y G T D L A	S A Q T A A E M A D G S R R L Y G T D L A
S E A	V A R I M A E G A L E A S R A N L A I	V A V A T V G V I A G P P G G G T P M K P	S E A V A R I M A E G A L E A S R A N L A I	S E A V A R I M A E G A L E A S R A N L A I
S E E	T A R E M A E G V R R A I P A N I G	V A V A T V G V I A G P P G G G A T E K P	S E E T A R E M A E G V R R A I P A N I G	S E E T A R E M A E G V R R A I P A N I G
S R E	V A C Q M A S G A R T Q M G A D I A	V S V T G V I A G P P G G G A V K G K P	S R E V A C Q M A S G A R T Q M G A D I A	S R E V A C Q M A S G A R T Q M G A D I A
S Q K	V S E N M A E K I R E K A Q S S Y G	L A I V A T V G V I A G P P G G G T K E K P	S Q K V S E N M A E K I R E K A Q S S Y G	S Q K V S E N M A E K I R E K A Q S S Y G
S E A	V A R A M A E G A L A R S A D I T	V A V A T V G V I A G P P G G G T A S K P	S E A V A R A M A E G A L A R S A D I T	S E A V A R A M A E G A L A R S A D I T
S E E	V A R A M A A G A L N A S G A G L A V	V A V A T V G V I A G P P G G G T E A K P	S E E V A R A M A A G A L N A S G A G L A V	S E E V A R A M A A G A L N A S G A G L A V
S A R	C A E L M A S S V R S L C H A D I G	V G F T G V I A G P P D K S E G K D P	S A R C A E L M A S S V R S L C H A D I G	S A R C A E L M A S S V R S L C H A D I G
S E P	V A R A M A E G A L H K A G V D L A I	S V T G V I A G P P G G G S D E K P I	S E P V A R A M A E G A L H K A G V D L A I	S E P V A R A M A E G A L H K A G V D L A I
S E Q	V A V L A M A Q G A L D A Q V A	V A V A T V G V I A G P P G G G T L E K P	S E Q V A V L A M A Q G A L D A Q V A	S E Q V A V L A M A Q G A L D A Q V A
S S E	V A A S M A E G A S L R V A N S D I	V A V A T V G V I A G P P G G G T L E K P	S S E V A A S M A E G A S L R V A N S D I	S S E V A A S M A E G A S L R V A N S D I
S E Q	T V V E M V E G A I Q N S N A N I G	V S I S G V I A G P P G G G T D L K P	S E Q T V V E M V E G A I Q N S N A N I G	S E Q T V V E M V E G A I Q N S N A N I G
S S Q	T V Y E M V G Q G V K H S K A N W A I	V A V A T V G V I A G P P T G G T E Q K P	S S Q T V Y E M V G Q G V K H S K A N W A I	S S Q T V Y E M V G Q G V K H S K A N W A I
S S A	V A V L A M A Q G A L D A Q V A	V A V A T V G V I A G P P T G G T P D K P	S S A V A V L A M A Q G A L D A Q V A	S S A V A V L A M A Q G A L D A Q V A
S E P	V A R A M A E G A A R H A P V Q C T	V A V A T V G V I A G P P G G G S A A K P	S E P V A R A M A E G A A R H A P V Q C T	S E P V A R A M A E G A A R H A P V Q C T
S E Q	T V V E M V E G A I Q N S N A N I G	V S I S G V I A G P P G G G T D L K P	S E Q T V V E M V E G A I Q N S N A N I G	S E Q T V V E M V E G A I Q N S N A N I G

130 140 150 160

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R	D					
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L	H	V				
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R	E					
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Y	E	I	Y	K		
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L	D	V				
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I	D	K	L			
L						
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L	D					
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I	D	R	L	N	G	

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UniRef90_A0L4X4		M N I S H K N I E D L S K L L I E E I V N R N L L L C T A E E S C T G G L L A K I
UniRef90_R7PR73		T E I V E R T R L L L E I C K K R G I L V A T A E E S C T G G M I V S L
UniRef90_UP10004678832		D A Q D L V T D I A L A R S Q G R T I T T A E E S C T G G W V A K T
UniRef90_W0HLM6	20	I N D S E L Y A L S V R L G A A L K R D N K S I T C A E E S C T G G W V A K T
UniRef90_H1RQ36		M S T Q A S G I E E L V R Q L A A R L T E K G W M L A T A E E S C T G G M I A A A
UniRef90_A1S257		T S L L E E E I H A R L N N S G I S L S V A E E S C T G G L I T S Q
UniRef90_TOZHN9		D A Q L Q R S A A A V A E L L Q A R G Q M L I T A E E S C T G G W I A K T
UniRef90_D8K3U9		T D L T E L A V T A G R L L R E K G L T V G T A E E S C T G G W I A A R
UniRef90_UP10003F9EE92		D D G E S I E V I L G R M L V Q Q N K T L V T G T A E E S C T G G K I A E R
UniRef90_J1GDK4		M T D S A L F E L S Q R V G N G L G Q G A T V T T A E E S C T G G W I A K V
UniRef90_F4XUP2		I N Y F G T D D T L L A S V V G Q L L T A A S E T L S V A E E S C T G G G I G S M
UniRef90_W6MCQ0		D V Q L D L L A M R V G E T L R T S D L R L V T A E E S C T G G W I A K I
UniRef90_M0MIV4		D D A I E R R L G D A L R E S D A T I A V A E E S C T G G L V G S L
UniRef90_Q87LR0		E K T T K L I S A D L G V L L A G H G H H V L T T A E E S C T G G G V A A A
UniRef90_UP10004164392		D E A L H D L A R Q V G A S L Q A R H L M L A T A E E S C S S G G W I A K M
UniRef90_C0N1U3		N I S D A S L H Q L V I E E I A Q L L V S Q Q K H V T A E E S C T G G W V A K C
UniRef90_UP100047AA7C7		H P R A Q H F L E K A R A K G V T I V T A E E S C T G G L V A G L
UniRef90_E1VIB3		I S T L A H S L G D T L K G A H A L V A T A E E S C T G G W L A E A
UniRef90_M5DFB7		L K D L L A G Q V G V A L L A G Q G G L M L A S A E E S C T G G W L G Q I
UniRef90_UP1000362C0AA		T Q L R P Q A E A L V L K L S K G L M M T A A E E S C T G G M V C A L
UniRef90_A0M3L5		I F G Y E D E D P V E V V G K M L A E R N W S L I S T A E E S C T G G R L A S K
UniRef90_A4TAK5		L F S E D G A L V D D Q V A A L L A G R T I A T A E E S C T A G L L A A R
UniRef90_G2H5J3		I I G E D E D R V E N L I F N Y L T S Q K L T I S T A E E S C T G G L I A A A
UniRef90_UP10003A38A87		E V E K C A R D G K L L S E K N L T I S C A E E S C T G G L L T S V
UniRef90_K9CHF3		L Y G Y D N D S L A S K S I E L L K K Q D K T I S A A E E S C T A G L F Q S E
UniRef90_I4X9F2		T Q L R P Q A E A L V L K L S K G L M M T A A E E S C T G G L I A A A
UniRef90_F4QQR5		R S L L A A E L V H R L Q D Q G K T I A T V E E S C T G G G I A F L S E
UniRef90_A0A011RLX4		F F G Y G E K R L L A D V V K D L I D R G L T I T T A E E S C T G G G I A G T
UniRef90_F0Z5F3		L N E M T E D G R S L E E C L V E R L A A K D L T T A A E E S C T G G G I A A R
UniRef90_H6RJH0		D T L Q E N V V A K L R E K G V K L A T A E E S C T G G G L L S E R
UniRef90_D4L5P3		I Y A V G E T S L H E V L I A E L R K R Q E T I A C A E E S C T G G S I A S M
UniRef90_UP10002D8CCFE		A V F G T D D T S L H E V L I A E L R K R Q E T I A C A E E S C T G G L V S D K
UniRef90_Q1Q609		M T D N E L M Q L S Q Q L G A A L K A Q G A T V T T A E E S C T G G W V A K V
UniRef90_I3YX35		F Y G Y N D T S I D Q K V F D L L Q K K H L T I A S A E E S C T A G F A S K
UniRef90_B1I313		E G E T I I E V M L G E L L T Q K M T L S V A E E S C T G G K M A S L
UniRef90_UP1000466F4AA		V F G E G K D E L L P D L V V A R L A A R G E R V V A L G E S C T G G M V A E L
UniRef90_U1KVU9		M T D Y G D Q N T D L P T E V V R L L K E K Q L T I A T A E E S C S G G L L S S E
UniRef90_J2U9H3		T D L L A A R V G Q A L K A R K L L L S T A E E S C T G G G V A Q A
UniRef90_C9XYZ5		M T D N E L M Q L S Q Q L G A A L K A Q G A T V T T A E E S C T G G W V A K V
UniRef90_N4W8C6		F Y G Y N D T S I D Q K V F D L L Q K K H L T I A S A E E S C T A G F A S K
UniRef90_G8X8Y4		E G E T I I E V M L G E L L T Q K M T L S V A E E S C T G G K M A S L
UniRef90_B8J6V6		V F G E G K D E L L P D L V V A R L A A R G E R V V A L G E S C T G G M V A E L
UniRef90_F0HQG6		M T D Y G D Q N T D L P T E V V R L L K E K Q L T I A T A E E S C S G G L L S S E
UniRef90_D8J6V0		D P I E T R V G E A L R E R E A T I A T A E E S C T G G G I I C S L
UniRef90_UP1000479EF53		E E D I S I E A V I G K M L T E N N T V I A T A E E S C T G G G I I A E R
UniRef90_UP100047B67A8		A E L R V L S K R V G I K L K Q Q S Q V L V T A E E S C T G G G I I A T A
UniRef90_U2FMC0		E Q L I K L L A T Q V G E R L K A S G E T V T T A E E S C T G G G I I S Y F
UniRef90_UP100030E3EA6		I H A L C R E L A A E L L D R G W M M A T A E E S C T G G G I I A A A
UniRef90_UP10002F354FB		D N S L A N V L V I Q K L Q Q E H L T I A A A E S C T G G G I I F Q S T
UniRef90_UP100047B0F1E		L S A L V Y D L G E R M T A R G L L M A T V E S C T G G G I I A Q A
UniRef90_M5J7T1		D N E I M K A L S E S L Q K R G W M L A T A E E S C T G G G I I A A A
UniRef90_UP100035F173D		M E E E L V E I L T K K Q Y K I T T A E E S C T G G G I I L G S L
UniRef90_Q3ITN1		Q 3 I T N 1 I I E R A V G E M L A D R G E Y V A T A E E S C T G G G I I A A A
UniRef90_F7RWM3		D N E I M K A L S E S L Q K R G W M L A T A E E S C T G G G I I A A A
UniRef90_R5VLU1		M E E E L V E I L T K K Q Y K I T T A E E S C T G G G I I L G S L
UniRef90_UP10004721C86		M S I L P K E I N E L A T S V I V R A K E A G Y F I A T A E E S C T G G G I I L G D L
UniRef90_H1XX80		F Y G Y N Q D F L H N K A I D L L K K K G L T I A C A E E S C T G G G I I F G N Q
UniRef90_C2WAS6		E E E T I I E F Q V G E M L K K A G K T L S T A E E S C T G G G I I A A S
UniRef90_H7FRQ6		N I N L I A R E L I D L L N E K N L K I A T A E E S C T G G G I I I S K L
UniRef90_R6GQP2		D A T L E E Q V V F L K L N S K K T I T T A E E S C T G G G I I V S A A
UniRef90_F5T3J4		I S E Q V T A L A D T L R E R G L R V A T A E E S C T G G G I I A R E
UniRef90_K0CCR6		M S E L L S E Q W Q V A A Q L G E A L K K K S W L L G T A E E S C T G G G I I L A G A
UniRef90_I3UFL1		E R L I P D D V G Q L L S A K G Y T I S C A E E S C T G G G I I T S T
UniRef90_C4V304		T L L P P E L V E A A R R V I E A N R A E G R K I A V A E E S C T G G G I I V A A A
UniRef90_A5V2U8		M N D E A L L L Q L S K Q V G E C L K L R Q G T I T T A E E S C T G G G I I V A K T
UniRef90_UP100037E4A79		V Q E L L A Q V L G D K L N Q A G F V V T T A E E S C T G G G I I V A Y A
UniRef90_A1T003		E I K T L A A Q L G A I L T D K R L W I T S A E E S C T G G G I I S Y A
UniRef90_UP10002F46346		M P D A A A S L C Q S L A Q V L Q Q R G W M M A T A E E S C T G G G I I I A A A
UniRef90_UP10004758CF4		L L E L S T S L Q G Q A L Q A K H W Q L A L A E E S C T G G G I I V A Q A
UniRef90_UP10004655B67		Q T I I A E H T R H R Q T V T C A E E S C T G G G I I L A G A
UniRef90_C6M1H9		E L L N R T D Y L I D N E L K L A T A E E S C T G G G I I I V S E
UniRef90_M1FGR8		E L L V K K L L I S R K M K I T T A E E S C T G G G I I V A A A
UniRef90_W7QC67		L A S A V L A V C E E R G L L L A T A E E S C T G G G I I I A A A
UniRef90_UP1000413483E		F Y G Y D D N S L A K V T D L L L Q N G Q T I A A A E E S C T G G G I I I A A A
UniRef90_K2LKT7		I Y G V N D Q T I I N Q V V N W L N R N Q Q T I A A A E E S C T G G G I I I A A A
UniRef90_Q0APQ7		M F N H A L I E Q A E T L I D R A R T A G V M V A T A E E S C T G G G I I L V A G L
UniRef90_J3CUV3		D H D T P A L V V A L A G G L K Q K G W M L A T A E E S C T G G G I I I G A A
UniRef90_A0A011TC28		D V G E L A D S F L K A C Q H S G I L A T A E E S C T G G G I I I A A A
UniRef90_B7RW03		V I G E G D T L L A A R V L D L L R Q R G E T I T T A E E S C T G G G I I I A S M
UniRef90_UP10003029A19		I Y G V N D Q T I I N Q V V N W L N R N Q Q T I A A A E E S C T G G G I I I A A A
UniRef90_Q5X4B3		L V I E E I A A Y L K K A K W Q L V T A E E S C T G G G I I I A A C
UniRef90_UP100047D1408		U L A Q S I I S L S K H N L K I T A A E E S C T G G G I I I A H W
UniRef90_E6ID86		Y G V D D D T L A S K A V E M L L H N R L T I S A A E E S C T G G G I I F Q S E
UniRef90_UP10002FC8FEA		L Y A A E D V S M N E V L V N H I Q H Q M T L S A A E E S C T G G G I I F Q S E
UniRef90_UP1000307DE63		Y G V D D D T L A S K A V E M L L H N R L T I S A A E E S C T G G G I I L A G R
UniRef90_D3FE46		L F S E D G S T I D E Q V A V A L L T G S S R T I A T A E E S C T G G G I I L A G R
UniRef90_Q98MY0		E L A N S L L L A C Q Q R G I M L A T A E E S C T G G G I I I A A A
UniRef90_A4AW63		I Y G Y E D E S L E E L V A K S F T A K K M T L A T A E E S C T G G G I I I A Q K

		50	60	70	80
UniRef90_R5MJ74		I T D V S G S S E V F E G G V V C Y S N R F K E N	V L G V S R E T I L K K Y G A V		
UniRef90_A9BRJ3	C	T D R A G S S E W F E R G L V S Y S N A A K H D	L L G V P E A L I A E H G A V		
UniRef90_G8PHZ6	T	E V P G S S A V L D R G F V T Y S N E A K H M I	G V P V D L L V S Y G A V		
UniRef90_A0L4X4	L	S A V P G S S D Y L D R G G W V Y S N G A K S R L	V E G I E P L I E R C	C	G A V
UniRef90_R7PR73	L	T D M P G S S V Y F K G G I V A Y W N E K N K V L	K V K Q E T L N R Y T A V		
UniRef90_UP10004678832	M	T D L P G S S S M V D R G F V T Y S N E A K M D M	L G V S S A T L E K Y G A V		
UniRef90_V4NYD3	I	T R V S G A S D V F H E G Y I T Y S N E A K S R L	G V P E S V L A E H G A V		
UniRef90_W0HLM6	I	T D V S G S A G W F E R G F V T Y G N Q A K T D L	G V R P R T L E Q H G A V		
UniRef90_H1RQ36	C	T D L A G S S Q W F E R G F V T Y S N E A K T E M	G V P A E L I A K H G A V		
UniRef90_A1S257	L	V G F P G S S S Y L H Q G L V T Y S N E S K V R	L G V V S P Q T L D D Y G A V		
UniRef90_TOZHN9	L	T D L A G S S A W F E A G V V A Y S Y E A K E A L	L G V N P R T L E R T G A V		
UniRef90_D8K3U9	L	I S V P G A S D Y C R G G I I A Y H N E I K I S L	A G V K Y A T L L A F G A V		
UniRef90_UP10003F9EE92	I	T A I P P G A S A Y F K G S I V C Y S E A V K V	E I L Q V S K E T I A K H S	V V	
UniRef90_J1GDK4	I	T D V A G S S A W F E R G F V T Y S N E A K H Q L	I I G V N E T T L E A Y G A V		
UniRef90_F4XUP2	I	T S V P G G S S N Y F L G G I I A Y D N A V K T G	V L G V N S S D L K A M G A V		
UniRef90_W6MCQ0	I	T D P P G G S S G W F D Q G F V A Y S N T A K M D	S L G V K E A T L A E W G A V		
UniRef90_M0MIV4	L	T D V P G G S S D Y F D R S L V T Y S S R A K R A	L L A V S R E S L D A H G A V		
UniRef90_Q87LR0	I	T D I A G S S S G W L D R A F V T Y S N E A K M E	M L G V V Q L Q T L E A Y G A V		
UniRef90_UP10004164392	I	T D I P G C S A W F D C G M A A Y S Y E A K Q A	L L G V R P E T L T E H G A V		
UniRef90_C0N1U3	C	T D L A G S S A W F E R G F V T Y S N E A K I E E	L L G V A P A T L E K N G A V		
UniRef90_UP100047AA7C7	L	T E I A G S S S D V R E G F V T Y S N E A K I E E	M L G V P E A T L I A H G A V		
UniRef90_E1VIB3	I	T E E V P G C S E W F D C A F I S Y S N Q A K E	L L G V K A S S L E R N G A V		
UniRef90_M5DFB7	I	T S I I A G S S A W Y E R G F I T Y T D S K R E	M L L G V S G K T L E E Q N G A I		
UniRef90_UP1000362C0AA	V	T E I L A G S S S A V L D R G F V T Y S N E A K M	E M L G V P A E V L A R V G A V		
UniRef90_A0M3L5	F	T K A P P G S S A S F K G S L V C Y F T E A K K E	L L N V S E E L I I K K H S	V V	
UniRef90_A4TAK5	L	T D R A G S S A Y V A G G V V S Y S N D A K T D	L L G V D A E L I A A H G A V		
UniRef90_G2H5J3	C	T D D V P G G S S A W F T G G V V A Y A N E V K R	D V L G V V G P A L L A A H G A V		
UniRef90_UP10003A38A87	L	I D V V S G I S S S F M E G I V C Y S N E A K I	K R L N V K K E T L E K Y G A V		
UniRef90_K9CHF3	L	T D V P G G S S S Y L I G S V V S Y S N D I K S	R V G V S S E E S L A S Y G A V		
UniRef90_I4X9F2	L	A S V S G A S A V L A G G V I T Y T E E M K V H	Q L G L S A E L L A E Y G V V		
UniRef90_F4QQR5	L	T S V A G S S S Q V F E T G L I I T Y S N A A K T	A L L A G V P E V L L I A H G A V		
UniRef90_A0A011RLX4	L	T G D T S A S A I L E G G I I T Y S N E K K N	K I L L K V R K Q T I E K F G V V		
UniRef90_F0Z5F3	I	V N V A G A S S D V L N E G G Y V T Y S N E A K	E R G R H E T L E T Y G A V		
UniRef90_H6RJH0	L	T E R P G S S T S V F G G G V V A Y A N S A K E	Q L G V P A A V L A E H G A V		
UniRef90_D4L5P3	I	T A V S G A S E V F D F G G V C Y T Y A N E M K	H K V L G V S N E T L S V L G A V		
UniRef90_UP10002D8CCFE	I	T S V P G G S S E A F R G G G V V C Y T Y A N E	M K H R D V L G V P A R V L E H D G A V		
UniRef90_Q1Q609	L	T N I P G I S D Y F P E G I V A Y S N K A K I	T I I L H V P P E L C I A T H G A V		
UniRef90_I3YX35	I	T A E A G A S S F F M G S I V P Y K T E L K T	Q I L G V P P S S L I E E Y S	V V	
UniRef90_B1I313	F	T D V P G G S S R Y F I G G V V A Y D N D L K R	E V L G V P P A E I L D R Y G A V		
UniRef90_UP1000466F4AA	L	T D I A G S S A V V D R G Y V T Y S N Q A K I D	M L L G V S P T T L A R A G A V		
UniRef90_U1KVU9	L	T D T A G S S S A V D R C F V T Y S N D A K H E	L L G V K Q E I I L E Q F G A V		
UniRef90_J2U9H3	I	T E I A G S S E W F D C G F V T Y S N D V S K N	E L L D I S E A L I A Q H G A V		
UniRef90_C9XYZ5	I	T D I A G S S A W F E R G F V T Y S N E A K E Q	L I G V D G A T L A A H G A V		
UniRef90_N4W8C6	L	A A R S G A S S I F H G S A V V Y Q P E S K Q	K V L G V S S K R V I D D D G T V		
UniRef90_G8X8Y4	L	T A I P G A S V Y V F K G G G V V S Y S A T E	V K E T L K V D K R I I D E C S	V V	
UniRef90_B8J6V6	L	T A V P G A G A S A V L D L G V V A Y A N A A K	E R V R G V P A E L L A A H G A V		
UniRef90_F0HQG6	I	V N V A G V S S V F L E G I V T Y S Y E S K M	N R L H I D R D R L M E H G A V		
UniRef90_D8J6V0	L	T D V P G G S S D Y L D R G F V T Y S N D A K I	A E R E M L G V S R E A L D D H G A V		
UniRef90_UP1000479EF53	I	T A V A G S S S D W F D R G L V T Y S N D A K I	A E L N V S A D T L D R F G A V		
UniRef90_UP100047B67A8	F	T A N P G A G A S S V Y F K G S V V A Y T R E S	K V N V L Q G V S S E V L I K D H S	V V	
UniRef90_U2FMC0	I	V D V P G G S S A L L E S C I T Y S N E A K V	L R L S V K E E T L N V Y G A V		
UniRef90_UP100030E3EA6	I	T E T A G S S S A W F D R S F V T Y S N E A K M	E M I G V K S E T L L M F G A V		
UniRef90_UP10002F354FB	L	T E V V A G S S S A W F E R A F V T Y S N D A K	H E L V G V K Q E T L A A H G A V		
UniRef90_UP10047B0F1E	C	T D D L A G S S S A V V D R G F V T Y S N E A K S	E L Q V D P T A I A S H G A V		
UniRef90_M5J7T1	L	A T I P G V S A V V F Y G G G V T Y A T E A K E	R F L G V P H E L I A Q N G V V		
UniRef90_UP100035F173D	L	T D V P G G S S A W F E C G W V T Y S N A A K T	R L V G V D D P A L L E A H G A V		
UniRef90_Q3ITN1	L	T D I P G A S S D Y F D R S I T Y S Y D A K L E	D I L G V P R E I L D A E G A V		
UniRef90_F7RWM3	C	T D L S G S S S G W F E G G V V S Y S N A M K S	N L L G V S D N L L S N F G A V		
UniRef90_R5VLU1	I	V N V S G A S E V F Q A G G F V T Y A N E A K E	E I L G V K S E T L Q T Y G A V		
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UniRef90_H1XX80	I	T N V P G S S A V Y F L G G G A V T Y S N A S K	M Q L G V K Q Q T L Q T F G A V		
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90 100 110 120

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S S E V A K A M A S G A H F [C] S N A N V A	V V S I T T G I A G P D G G T K D K P P V G
S A E V A L A L A R G A L K G H A V D L A	V V A I T G I A G P G G G S E T K P P V G
S S F V A I E M A I [G] V R K I Y Q C [D] L S I	I A I T G Y A G P G L G E R G E E P P V G
S E Q T A L E M A M A G A L E R S R A G L T	L S V T T G I A G P D G G S A E K P P V G
S L K T A H G M A E G A L K K S A S A D L A	S V T T G I A G P T G G T E D K P P V G
S D L V V Q E M A C [G] A L R A A S A D Y A	V A I S G I A G P D G G G T L E E K P P V G
S E E V V R A M A E G A I R N S R A Q V S I	V A V T G I A G P S G G S A E E K P P V G
S I Q T V E E M A K G A R A I L D S D F A	L A T S G I A G P D G G T E E K P P V G
S Q E T V M E M [V] S G A L A R F G A G V A	V A V T G I A G P S G G T P D K P P V G
S A R V A E E M A A G G R Q R L G V I C [L]	S D T G I A G P G A D G T D K P P A
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S K G V V L E M A Q G A L A A A K A D Y A	V S V S G I A G P D G G T P E E K P P V G
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S A E T V A E M T A G A L Q R S G A G V A	V A V V S G I A G P D G G G T P D K P P V G
S E P V V T E M [V] Q G A L K H S N A T I G	L A T T G I A G P D G G G T D E K P P V G
S R E T V L E M [V] S G A L V K S G A S I A	V A V A V T G I A G P T G G L P P G K P P V G
S L S V V E E M A L G A M A H S N A D M C [I]	V A V A I T G I A G P D G G G T A E E K P P V G
S E A T A R A M A E G A L A H S N A F A	V A V A I T G I A G P P G G G T A D K P P V G
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S I E V A E S M A V [V] N S C K L F N T D Y A	I A T T G I A G P P T K G D G K D E V V G
S E Q T A V A M A E G I R R L T G S D L G L	A I T T G I A G P P D G G G T R A K P P V G
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S Q A C A E D M A I Q V R D F V Y Q S D V G	I S F T G V A G P P N P S E G K E V V G
S Q K V V E M M A M K N V R E L L K T D F A I	S P K G E S D A E V V G
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S E E I A Y D M A N N L K E L T G A D V T I	V G V T V G I A G P P D G G S E E K P P V G
S D P V A R E M A R G A R D V A D V T W G L	A T T G V A G P P T G G S E E N P P V G
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S E Q T V Q E M A G G A L E R S K G T C [S]	C I A V V S G I A G P P D G G S D E K P P V G
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130 140 150 160

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UniRef90_I4JHH4	L T D L A S Q L G D A L R R Q G A Q V T T A E E S	S C T G G G I L F S G A		
UniRef90_UPI0004665738	L E P L L A Q S N A L L A R G Q M L A T A E S	S C T G G G I L F S G A		
UniRef90_A0A037UTTO	Y G E E A S L A S V V V E E L K K K K Q T I	S C T G G G I L F S G A		
UniRef90_E014B9	R E N Q L F I A T A E E S	S C T G G G I L F S G A		
UniRef90_Q3JYNO	L F A E E D I P L E E A I V R L L R A S K R T I	S C T G G G I L F S G A		
UniRef90_R6LFX2	L Y G Y D N N S M A R T V L E L L K V Q N K T I	S C T G G G I L F S G A		
UniRef90_UPI0004246090	E E N V T L E E E S V I R L L E E E K K M T V I	S C T G G G I L F S G A		
UniRef90_M1QIX1	L Y G K E K E T L P S Q V V R M F T D N G L T I	S C T G G G I L F S G A		
UniRef90_C8NE07	I I Y T D I Y E S I I E E T V I K T L K D K S K T I	S C T G G G I L F S G A		
UniRef90_F8F6V7	F Y G Y D H N T L Q E V T V I D L L K E S G G L T I	S C T G G G I L F S G A		
UniRef90_R6WWM9	V Y A S E D I T L E E V L R L L T A A N K T L	S C T G G G I L F S G A		
UniRef90_UPI00035C0E19	S L E D E V V A L L K D Q G L T I	S C T G G G I L F S G A		
UniRef90_E8X2W3	G D D N S L L A R V A F E M L K E Q G K T I	S C T G G G I L F S G A		
UniRef90_Q2KY08	D I F S S H G E S L D E V I L L M L G M R H Q T I	S C T G G G I L F S G A		
UniRef90_UPI000225FE7B	D I F S S H G E S L D E V I L L M L G M R H Q T I	S C T G G G I L F S G A		
UniRef90_C0MAR7	L A E Q L G P A L Q E Q G W Y L S T A E E S	S C T G G G I L F S G A		
UniRef90_R9PMD5	A I L P A E V L E K S A T V L E E Q L K A A G L L M V	S C T G G G I L F S G A		
UniRef90_M5QGJ8	L Y G Y E D N S L A R E T F E L L K R S G K T I	S C T G G G I L F S G A		
UniRef90_G2EE59	V F T E D Q G N W A L H L Q Q L M I A Q G K K L A L A E S	S C T G G G I L F S G A		
UniRef90_A6D4F0	I S R L L A A E L G H Q L Q T L N A Q V T T A E E S	S C T G G G I L F S G A		
UniRef90_W4F111	E T D E S I E V L I G R Q L T S L G K T I	S C T G G G I L F S G A		
UniRef90_R6PU85	I L E E L S F N L G A L L E Q K D H I L V T A E E S	S C T G G G I L F S G A		
UniRef90_UPI0003B46E78	M Y G V N D D S L L A R V A F E M L K E Q G K T I	S C T G G G I L F S G A		
UniRef90_UPI0004785904	D T E A Q N E A A G F L I D N N K T L A V A E E S	S C T G G G I L F S G A		
UniRef90_J0ENM8	L L G E L P V T L L S D A L V N T L R K H S L S L S T A E E S	S C T G G G I L F S G A		
UniRef90_A6W1Q5	T L F G D N I L L E L D S Q L L I E R L K N L D S K V A V A E E S	S C T G G G I L F S G A		
UniRef90_V8G8E8	M T Q A A Q Q V G E L L Q V R G L L V T A E E S	S C T G G G I L F S G A		
UniRef90_W7BY19	L S L Q V Q G D C L K R H N A I L S V A E E S	S C T G G G I L F S G A		
UniRef90_V9G698	V Y G Y G D T T L A D V A I S K L L H H I T I	S C T G G G I L F S G A		
UniRef90_R4YUV7	M Y A S E D V P I E K V I V D F M A D R G W T I	S C T G G G I L F S G A		
UniRef90_Q5P3R7	P E Q P A S V A K C L V E L L A R N K T L M T A A E S	S C T G G G I L F S G A		
UniRef90_R7IGZ4	M M D R E L A A L S A E A G A W L G A R G M R L A S A E V	S C T G G G I L F S G A		

	50	60	70	80
UniRef90_Q8DRX2	L A D F A G A S D I F K G G F I	T Y S I E E K A R M L G I	P F E D I L Q	H G V V
UniRef90_L7W6S5	I T E I P G A S A F F K G S T I	T Y A T Q S K I D I L G	V D E A L I T E H S V V	
UniRef90_H1Y3D9	F T Q H P G S S K V F L G G A I	S Y A Y E L K E S M L G	V K N E T L W A N G A V	
UniRef90_UPI0002899A8F	F T K I G G A S S A Y F K G G L V	P Y D T A L K T T I L G	P K A L I E A H S V V	
UniRef90_H6L3R6	I T A I P G C S D Y F M G S V V	A Y S N K V K M Q Q L G	V A A E T L D T E G A V	
UniRef90_C1DA14	I T E V A G S S H W F G W G V V	S Y A N A A K M Q L L A	V Q P E T L Y D H G A V	
UniRef90_UPI0004769B7D	I T D I A G S S A W F D R G F V	T Y S N A A K H E M L G	V D M A L I E R H G A V	
UniRef90_V5FM08	V T E I I A G S S Q W F D R A F	V T Y S N E A K V E M L G	V K E S S L E Q F G A V	
UniRef90_UPI00036507BB	L T D I V P G S S Q W F E C G W	V A Y S N A A K A H M L G	D P P E L I E A E G A V	
UniRef90_A0A010PCE2	F T S V S G S S D W F N Q S W V	T Y S N D A K Q S L L G	V T D Q T L L K H G A V	
UniRef90_H0E2U7	L T D R A G S S E V M A G G V V	A Y A D E V K R R A L G	V D G A L L A E H G A V	
UniRef90_R5ZLE8	I V N V S G A S A S E V F V D	E G Y V T Y A N K S K A K L G	V S K E I L D N E G A V	
UniRef90_R6CAD2	I T A I P G S S R F Y K G G I V	A Y D N K V K Q D L L H	V K A E T L E Q C G A V	
UniRef90_R5CSN8	F T D M P G A S E F F L G G V	T Y T N G A K A K L L G	I D P E L I E A K G A V	
UniRef90_X0RK64	L T D F S G S S E V F I G G S I	A Y S T N V K E Y H L Q	V S K E I I D G V G V	
UniRef90_Q2C122	I T E I A G S S A W F N R S F V	T Y S N E A K Q E A V G	S A T L A E F G A V	
UniRef90_UPI0003F8F620	M T A F P G A S E I F F P G G I	C Y S N E A K Q E A V G	S A E L E E K H G A V	
UniRef90_T0SQH5	I T D I S G S S T P F L G S I I	S Y S N D V K I K Q L G	V K E E T L K S F G A V	
UniRef90_F5YFG3	I A R V P G A S A V F W G S F V	T Y T L D A K M K M L G	V S R E C L Q K H G A V	
UniRef90_A8ES60	I T I S V S G S S D I F N G S I	V S Y S N K I K N Q E L N	V N N E T L E K F G A V	
UniRef90_UPI0002490BAD	C T I V S G A S S N V F N G G F	V T Y A N D V K E K I L G	I D H S I I S E Y G V V	
UniRef90_F2J0Q0	L T E V S G A S A V L D R G F V	T Y S N E A K A D M L G	V P A D L I I S H G V V	
UniRef90_C5WJJ9	L A S F S G A S Q V F N G G F	V T Y S M E E K A R M L G	I P L E D L I S H G V V	
UniRef90_UPI00047487DF	L T E E L P G S S D V W F E R G	F V T Y S N Q A K Q D M L G	V K A S L I Q L N G A V	
UniRef90_K2BVK3	I T S V P G G S S D W F E R G Y	V T Y S N E A K I E C	V Q T K T I S T Y G A V	
UniRef90_UPI0002E58FE8	I G S V P G V S T V F P G G F	V T Y A A S A K H E L I A	V P Q S V I D Q F G V V	
UniRef90_UPI00035DC035	I T S L P G G S S A W F D C G	L V T Y S N Q S K I E L L K V L S Q T L E T Y G A V		
UniRef90_A5VIW6	I C S V P G A S T V F N G G F	V T Y A A S A K E K L G	I P H A T I D R Y G V V	
UniRef90_R6P2S1	I T E V A G A S S Q V F D C G	I C S Y A N Q I K E R V L G	V S H E T L E A L G A V	
UniRef90_D0L1F6	I T E V A G A S S A W F E C G	F I V T Y S N A A K T R L L G	V P E S I F A R F G A V	
UniRef90_D2Z521	V T E I I A G S S S A Y F Q G	G T A G T Y S N E A K E K I L S	V S P E V I A K H G A V	
UniRef90_A0A021W004	L T D I A G S S A W F E C G L	V F V T Y S N E A K Q R M V G	S A D T L A A H G A V	
UniRef90_R5DPH9	I V N V P G A S A V V L K Q A	Y V T Y C D E K H T V L G	V K K E T L E K Y G A V	
UniRef90_UPI0003B7498B	M T D L A G S S A V V L E C	G F V T Y S N E A K Q R M V G	V S S Q A T I D Q D G V V	
UniRef90_W7DBF8	L G S V P G V V S A V F P G G	F V T Y A A S A K H D L L G	V S S S E T I E N K G V V	
UniRef90_C1L2V3	L A G T T V G V S K I F K G G	G V V T Y S N E M K Q T L L H	V S S P Q V I K E E K G V V	
UniRef90_L1QHG8	I I A R F P G I S K I F K G G	G M V T Y S S E E T K Q S I L Q V S S P Q V I K E E K G V V		
UniRef90_L0EU81	L I S Y S G I S S N V F L E G	A I G A I T Y S N E S K M K R L G	V K K E T L D K Y G A V	
UniRef90_UPI000471A9A2	L T D I I P G A S A S A I I E	Y G F L V Y S N R A K M R F L G	V S S Q K T L E T T W G A V	
UniRef90_UPI00020028EB	L T S V A G A S G W F E R G	F V T Y S N A A K V D L L Q V S T E T L E H F G A V		
UniRef90_C6IW34	F T A L P G G S S A V F A G G	I V C Y S N E M K E K L L N V P H D L L E G G E G A P		
UniRef90_A4C6Y8	L T D T A G S S R Y I D R C	F V T Y S N E A K Q A L L G V S S A A T L T S F G A V		
UniRef90_K4NH6	F T S I I S G A S A V F M G G	I V C Y C Y N E E V K R E L L K V N A T T L K V F G V Y		
UniRef90_UPI0003A145E1	F T E I I A G S S D V F E R G	F V T Y S N A A K I G D L G V D F D T L Y R H G A V		
UniRef90_UPI000364BB8C	L T E I I A G S S A V V D R G	F V T Y S N E A K H E A L G V G T G L L D Q Y Y G A V		
UniRef90_Z5XF85	L T E R A G S S A Y V A G A	V V V A Y A N E A K A E V L G V E P A L I E R C G A V		
UniRef90_UPI00047A07D3	L T Q I I S G S S D I F N G S	I I L T Y S N K I K N L E L N V K N E T L E K Y G A V		
UniRef90_D4K7K2	L T S V V S G A S E V F G Y	G F V T Y S W E Q A K A K L V G V D P A V I A Q Y N V V		
UniRef90_M9SD05	I T S M P G G S S E Y F L G	G S A V T Y S N E A K E S I L K V P L G V I M E Y G A V		
UniRef90_G4L3P6	L G S V S V G V S E V F P G G	F V T Y S E T T K E Q Q L L N L D S K M L E K Y G T V		
UniRef90_I7CRA2	I T A I V P G A S D Y F D S G	G L T T Y A Y D A K R R H L G V S R E S L D E H G A V		
UniRef90_UPI0002DD1E59	L T D I I P G A S R V F K G S	V T A Y A T E V K R E T L G V D A A L L A E R G A V		
UniRef90_L8DKM1	L T D T R A G S S S A V V I G	A V V S Y S A N E A K T G L L D V P A E T I D K H G A V		
UniRef90_M0QRP9	L T D T R A G S S S A V V V A G	G G V V T Y S N A E V K S G L L D V P G A M I D A H G A V		
UniRef90_S4ZU63	L G D I V P G V S A Y F K G G	F V T Y A L A T K A A F L N I D A R Q L A E H G V V		
UniRef90_UPI0002F5A8E6	I T N I I A G C S S A V F V N	G S G I V C Y Q T E V K R N V L N V P Q D V I N K H G V V		
UniRef90_UPI00037F3853	I L S S L P G G S S A W F E R G	G V T Y S N A A K T E L L G V P P A T L Q E H G A V		
UniRef90_R7CAW9	I I N V S G A S S D V I N C A	Y V T Y A N E A K E N L V S V S H E T L E T K G A V		
UniRef90_S3AA9	L A N F S G A S T I I F K G G	F V T Y S L E E K A K M L D I P Q V E L E E Y G V V		
UniRef90_I4JHH4	I T R I I A G S S A W F E R G	F G V T Y S N A A K E L L G V P V G L F E T I G A V		
UniRef90_UPI0004665738	C T E I L A G S S S Q W F E R G	F V T Y S N A A K E L L G V P P A A L I E Q Q G A V		
UniRef90_A0A037UTTO	L T A V I P G G S S S A F D R	G F V T Y S N E A K A D M L G V D P A L I A A H G A V		
UniRef90_E014B9	V T N I I P G G S S G E F A	G G G V V T Y T N V M K H Q L L G I P M A Q L E G G E G A P		
UniRef90_Q3JYNO	L A E F S G A S Q V F N G G	F T Y S M E A K S Q L L G I P K K K L Q E Y G V I		
UniRef90_R6LFX2	L L N V I V A G A S G A V Y	N E G Y I T Y A N A S K E K I L G V K H E T L E T Y G A V		
UniRef90_UPI0004246090	L V D I I P G A S G I I L E G	A V T V Y T E Q A K T K V L G V D A D V I A H H G A V		
UniRef90_M1QIX1	L V N V I V A G S S S V F L	G G G F V V Y S N D F K V N F L N V N K N L I E K Y Y G A V		
UniRef90_C8NE07	V V A F E G S S S Y F Q G	G G G T V A Y Q R E A K E T Q L G I V D S T L D Q Y Y G M V		
UniRef90_F8F6V7	L T A V I P G G G S H S F A	G A G G G V I C Y T N R V K N V K L G V P M E Q L E G G P A V		
UniRef90_R6WWM9	V M N V A G A S A V V Y E E	G Y I T Y S N K A K E K I L G V C H D T L E R Y G A V		
UniRef90_UPI00035C0E19	L A D F P G G S S K V F N G G	F V T Y S I E E K S K M L Q I P L T D L Q E H G V V		
UniRef90_E8X2W3	L T A I I P N S S R A F I G G	G A V V T Y S A S M K A L F C N Q P E L I E S Q G A V		
UniRef90_Q2KY08	V T S A P G G S S G W F D R	G F G V T Y S N Q A K V D E L Q V S S A D T L N H F G A V		
UniRef90_UPI000225FE7B	L T A H A G S S A A V V A G	G G F V T Y S N A M K Q A A L G V P E D M L A Q R G A V		
UniRef90_C0MAR7	L T D F A G A S Q V F N G G	F I T Y S I E E K A R M L G I P L G E L Q R H G V V		
UniRef90_R9PMD5	L V A I V A G S S A V Y L D	R G F V T Y S N Q A K Q S I L G V P T A T I E Q Y G A V		
UniRef90_M5QGJ8	I T R I I A G S S A W F E A	G G F V T Y S N Q K T R Q L N V P Q P L F T Q V G A V		
UniRef90_G2EE59	I T K N P G A S K Y V F K G	S G S V V T Y A S E S K T D V L Q V P E A L I E A H S V V		
UniRef90_A6D4F0	I T D I I A G S S A W F D R	A F V T Y S N D A K I D M L G V A T E T L G Q N G A V		
UniRef90_W4F111	I A E N P G I S S Q S L I	G G G V V T Y E Q A K R E Q L G I P A D L L E N Y G V V		
UniRef90_R6PU85	M T D V S G S S S Y I K A N	F V T Y A N E A K M K Y K L N V K E E T L K E H G A V		
UniRef90_UPI0003B46E78	I T S V T G A S S S V Y P G G	I V V V S Y S N A M K M S Q L G V N A S S L E T Y G A V		
UniRef90_UPI0004785904	I T E I I A G S S R Y Y L G G	I I I A Y S N A V K Q A L L G V P A T I L L D H G A V		
UniRef90_J0ENM8	F S S I V S G A S A V V F M	G G G V C Y D E E V K Q N L L K V N A T T L K A F S V Y		
UniRef90_A6W1Q5	C T E I I P N S S R A F I G G	S S W F F G G M I S Y A N E A K M R G L S V K E E T L S S F G A V		
UniRef90_V8G8E8	V I E T A G S S S Q W F D R	G F G V T Y T N Q A K Q D L L D V K V S S T L E T F G A V		
UniRef90_W7BY19	L G D R I P G I S S E I F R	G G G M V T Y H D I K E K L L G V S H D V I K R E G G V V		
UniRef90_V9G698	L T S I I P G G S A S M F L	G G G I I C Y T N Q I K E K L L V H I P H G L L E G E G A V		
UniRef90_R4YUV7	I T R I I P G G S S Q V F E	G G G G V T Y S N R I K S Q L L N V K E Q T L L D H G A V		
UniRef90_Q5P3R7	V T A T A G S S S G W F D C	G G G F V T Y S N E A K Q K E L L G V T A A T L A D F G A V		
UniRef90_R7IGZ4	L V D I I P G A S A V V R A	G G G G V T Y Q T D T K T I L A D V P A E V I E R F G V V		

	90	100	110	120
UniRef90_Q8DRX2	S A F T A E K M A E R S R Q L T Q A D	L A I S L T G V A G P D S L E G Q P A G		
UniRef90_L7W6S5	S E Q V A E A M A V A A K K K F K S D Y A	A T T G N A G P S K G D S D A T V G G		
UniRef90_H1Y3D9	S E Q T V I E M V E G A L L N F K S S Y A	A V T G A P P D G T Q D K P V G G		
UniRef90_UPI0002899A8F	S T Q V A A S M A E Q S L K L F Q S D F A	A T T G N A G P T K G D S D A E V G G		
UniRef90_H6L3R6	S E A T V R Q M L S G L I K N L K V D Y G I	V S S G I A G P G G G R P D K P V G G		
UniRef90_C1DA14	S E A V V R Q M A T G V Q R L S G A D W S I A V T G V A G P G G G S A A K P V G G			
UniRef90_UPI0004769B7D	S R E V A E A M V R G A C A S G C G F G V A V T G V A G P G G G S P E K P V G G			
UniRef90_V5FM08	S T E V A E A E M A L G A V Q Y S R A H I A V S I T G I A G P G G G T Q D K P V V G G			
UniRef90_UPI00036507BB	S E A V A R A M V E G G L A R S D A D F A L S V T G V A G P S G G T P E K P V V G G			
UniRef90_A0A010PCE2	S K Q T V K E M A D G V H R N S G A Q L V V T V S G I A G P G G G S E E K P V V G G			
UniRef90_H0E2U7	S A P V A Q A M V G A L D R I G A D V A V A T T G I A G P G G G T P D K P V V G G			
UniRef90_R5ZLE8	S K E C A M E M A I G C A K A A N A Q L G L S T T G I A G P G G G T P E K P V V G G			
UniRef90_R6CAD2	S E E T V V E M V K G A M Q T L E V D Y A M A T S G I A G P A G G T P E K P V V G G			
UniRef90_R5CSN8	S R E V A I E E M A E R V R A L L G T D M G I G V T G L A G P D G D G V H E V V G G			
UniRef90_XORK64	S E E A A A L A M A Q S V K E K F G S D I G I S F T G V A G P N K Q E N K E V V G G			
UniRef90_Q2C122	S E A V V F E M A C G L A A S R A D I S V A I S G I A G P D G G S E E K P V V G G			
UniRef90_T0SQH5	S A E T A E A M A E G A R R R H A D Y G V S F T G A A G P D P L E G Y Q P V V G G			
UniRef90_F5YFG3	S K E E T A L E E M A I G A R E R I N S H I G I S L T G I A G P L G G S K E K P V V G G			
UniRef90_A8ES60	S R E T A C A M A Q G A L E K S G A D F A F S V T G L A G P D G D G S P N P V V G G			
UniRef90UPI0002490BAD	S T E V V N E M L D G A R K F E A D F A I A I S G I A G P T G A T K N K P V V G G			
UniRef90_F2J0Q0	S E P V A I E M A E R S R Q M D A D Y G I V S F T G V A G P D P S L E N Q V P V G G			
UniRef90_C5WJJ9	S R E V A L A M A T G A L A R S R A D I I A V V S I T G I A G P G G G S A D K P V V G G			
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130 140 150 160

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40

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UniRef90_G8PCL5	C S V S G G V S A L F N G G G F V T Y S N Q S K H D L V D G V V S S D L I Q N N G V V
UniRef90_F0F7K3	I I A I P G S S S D Y Y K G G I V A Y T D E V K E K I L G V V S H E V L E E K T A V
UniRef90_H8KZB4	V T D L L A G S S S G W F E A G L V V T Y S N Q A K T R L L G V V S P A T L E R H G A V
UniRef90_A2U128	I V S V P V G V S A V V Y F K G S I V V A Y T S A E L K Q S L L N V S K A T I E S N T V V
UniRef90_F0Q5B5	C T D L L A G S S S Q W F E R G F V T Y S N A A K T E L L G V V A A A L I D T H G A V
UniRef90_F0S250	I V N V P G S S S E Y F M G G V V V A Y D N S I K M K V L N V S P E T L L K F G A V
UniRef90_B6ENH7	A T E N A G S S A W F E R G F V T Y S N E A K Q D S L G V V N L E T I G R F G A V
UniRef90_R5CRN3	I V L V M P G A S S N Y F K G S I V V S Y T N E V K E K V L G V V S H E V L E E K T A V
UniRef90_H0JGJ4	L S E I I P G S G S C I E S G Y V V V S P E A K Q R L G V V K P E T I E R H N L T
UniRef90_S9Q8Y4	L T D I P G S S D I F H R G M I T Y S D A A K Q E M L G V V H A E S L Q V H G A V

	90	100	110	120
UniRef90_B1WN03	S E V V R E M A D G A L L N S K S D I T	V S I S G I A G P G G A T E D K P V		G
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UniRef90_A4A6M1	S E A T V K A M V R G A L D A S G A D L A V A V S G I A G P P G G S N D K P V	G		
UniRef90_F8D4F5	S A P V A R E M A R G I R D T A D A T W G V S A T G V A G P S G G T E E T P V	G		
UniRef90_N6YYK0	S E A T V A E M A E G A L A R S A A D I A V A V S G I A G P P G G G T P A K P V	G		
UniRef90_B1A1B5	S E Q T A I E M A Q N V K A K Y G A D F G I S T T G I A G P P G G G T P D K P V	G		
UniRef90_T1ZXL3	S A F T A E K M A E Q A R K L T A S D Y A V S L T G V A G P D S L E G H P A	G		
UniRef90_UPI00028A26C9	S E Q V A L E M A R V A R D K F K S D Y A I S T T G N A G P T K G D S E E D L	G		
UniRef90_R6GIN0	S E Q T A K E M A E G V A K A N Q A N V G V G I T G I A G P T G G G T V E K P	G		
UniRef90_UPI0002D9BFC6	S A E V A Q A M A K G V R E K F G T T Y V L A T T G Y A G P T G G D D G T I A	G		
UniRef90_F6DBG6	S Q A C V T E M V A G A L R F S D A D Y V V A C S G I A G P P G G S P D K P V	G		
UniRef90_UPI0004647EBD	S E Q T V K E M L L G A L E K S K A D Y A L A V S G I A G P T G G T P Q K P V	G		
UniRef90_X0QR30	S Q Q T A A A M A L Q S K Q R L G A D I G I G F T G V A G P D K L E D Q Q A	G		
UniRef90_Q5QUB7	S E A C C V R Q M A V G A I A A C D A D W G I A V S G V A G P A G G T A D K P V	G		
UniRef90_H1CEZ7	S G P V A E E M A E G S R A L Y G S D I A V S T T G Y A G P G K G E R G E D P	G		
UniRef90_UPI0003F98795	S I E V A Q A M A K G A L T N S G A D I A L L S V T G V A G P G G G S D E K P V	G		
UniRef90_I1AR49	S E Q V A A E M A R G A L D C A R A D L S V A V S G I A G P G G S E H K P E	G		
UniRef90_U4TFT5	S E E V V R L M S H H A C E R S S C A V G V A A A S G I A G P D G G S I D K P V	G		
UniRef90_G2MIC9	S A P V A E Q M A A G I R D T A G T T F G L S T T G I A G P D G G G S E E K P V	G		
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UniRef90_H0C2Q3	S E A V A R A M A D G A L L H S Q V A Q V S L A V T G V A G P L G G S D A K P V	G		
UniRef90_R9NDU8	S P Q V A Q Q M A E G A A R Q T G A Q E A A I A V T G V A G P D G G T L E K P V	G		
UniRef90_C4L2V4	S K E V A Y E M V D G L S K T T H A D Y A L S F T G E A G P T T S N S G R P I	G		
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UniRef90_R7N799	S S N T A C E M A D G A L K A A N A D I A V S V T G V A G P S M E D D K P V	G		
UniRef90_R5FRU3	S E E V A I E M A K G I Q N F A N T E V G V V S V T G Y A G P T G G T E S I P V	G		
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UniRef90_UPI00047BCA4E	S P E V A R A L A E G I R T R T G A S D L G I S I T G I A G P P G K D A E R P I	G		
UniRef90_R7ASH3	S E E V A C E M A Q G V A N A A A K S D V G V G I T G I A G P G G G T A K K P V	G		
UniRef90_UPI0004639E58	S A Q T V I E E M A R G A K E R A G Q D I G L S I L S G Y A G P D G G E D G T P A	G		
UniRef90_V8BPC8	S E Q T A R E M A E G A A R A A K A E A A L S A T G I A G P G G G T A E K P V	G		
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UniRef90_S9P8T4	S E A E A V E A L A H A L E H S R A D W A V A V E T G I A G P T G G T P L K P V	G		
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UniRef90_UPI0003828F05	S E Q T A A E M A T G A L K N S H A H I V A S I T G I A G P D G G S P E K P V	G		
UniRef90_U7NHE6	S R E V V E A M V R G A C G E S G A T L G V A I S G V A G P T G G S A E K P V	G		
UniRef90_A1K2S0	S I A T V G E M A Q G A Q A R S A A Q I A V A V S G V A G P T G G S A E K P V	G		
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UniRef90_A1VEW0	S E E V V R E M V A G I C R I T G V Q A A V A V V S G I A G P D G G T A D K P V	G		
UniRef90_G4F5F0	S E E V V K A M V Q G A C R E S G A G L G V A V S V G A G P D G G S A E K P V	G		
UniRef90_R5SUH5	S A G V A G E M A E G S R R L Y N S D V V S V A T T G Y A G P G N G I H G E S P	G		
UniRef90_U1NNW4	S E S V A A E M A R G V R D T A D T T W G V S T T G I A G P T G G T D E E K P V	G		
UniRef90_R7JAK5	S R P V V E Q M A L G A I R R V L N C D C A V A T S G I A G P G G A V P G K P V	G		
UniRef90_R6NHX5	S K E C A K E M V H G G L L E K A D I A V S A T G F A G P P S G G W E A P V	G		
UniRef90_U4UWP8	S E Q V V A A E M A A G A L K H S N A T L S V S V T G I A G P G G S D F K P E	G		
UniRef90_A0LV09	D P E V A V V M A E S I R S R L G A T Y G V A T T G V A G P A R Q D G K P V	G		
UniRef90_K2JC40	S E Q I A R E M A E G A L T R G G V G L A V V S V T G I A G P G G S E H K P E	G		
UniRef90_UPI000366F349	S E A V V R Q M A E G A Q K K S G V D I T V A V S V G A G P D G G T A E K P V	G		
UniRef90_R6MX52	S Y E T A F E M A D G L R K N T G A D V T V G I T G I A G P T G G T K E E K P V	G		
UniRef90_Q8EQR8	S R A C S D A M A S N V T R K I Q T N L G I S F T G I A G P P D E Q E G K P V	G		
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UniRef90_W1VL80	S H F T A Q A M A S Q A R K L T G S D Y G V S L T G V A G P D S L E G H P A	G		
UniRef90_B3CT36	S E A C A L A M A E N C K I V T K S D L A I S T G I N A D S S S L Q E Q K Q G G	G		
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UniRef90_K0C5A1	S Q E V A E Q M A E G V I E A F N S S I S V V S I T T G I V A G P P S S G G T L E K P V	G		
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UniRef90_U2KZW4	S E E V A I E M V K G V C D T L K V D Y A I S A T G I A G P G G G T P E I P V	G		
UniRef90_Q0C0M7	S E P V A R M M A E G A M A N S R A N I S V A I T T G V A G P G G G T R M K P V	G		
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UniRef90_A6FI45	S I E V A A E M A E G A M S N A G V D F G I A V S V G I A G P G G G S E A K P V	G		
UniRef90_A9B6W3	S A E T A L A M A Q T A Q A L G A T V G L S T T G I A G P G G G S P E K P V	G		
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UniRef90_UPI00037FB2FD	S K E V A I A M A K G A K E K L Q T N Y A V A V T G N A G P T T D D T D K S L	G		
UniRef90_D0D0W6	S E E V A R E M A E G A R K A A E A D L A V A I S G I A G P G G S E H K P E	G		
UniRef90_B8EJU3	S A D V A A A M A A G I L T H S P D A V A L S V S V T G I A G P G G G S P A K P V	G		
UniRef90_B8EJU3	S E T V A R E M A A G A L K A A Q D F A L S V S V T G I A G P G G G S A E K P V	G		
UniRef90_L1NHW8	S E P T A I W M A D Q A R R L M D K D L A V V S F T G V A G P P D A L E G N P V	G		
UniRef90_C2D474	S E P D V A A A L A E G G R Q R C G A D W G L A T T G V A G P E P Q D D K P V	G		
UniRef90_E8S9X9	D P E V A A A L A E G G R Q R C G A D W G L A T T G V A G P G P D Q D D K P V	G		
UniRef90_H3NVH2	S E P V V R S M L R G A L N K A S A D I G I A V S V T G V A G P G G G T E E K P V	G		
UniRef90_G8PCL5	S K E V A E A M A S G A R R K M N T K L S I S F T G V A G P G E L E G H K A G	G		
UniRef90_F0F7K3	S E E V A R E M V L G T I Q A I G V D F A I A S T G Y A G P G G G T K D I P V	G		
UniRef90_H8KZB4	S E A T V R E M V A G A L A V T E A D V A V A V T G I A G P P G G A T P P G K P A G	G		
UniRef90_A2U128	S K E V A K E M V V G V Q K L K T Q Y A A V A V T G N A G P T T D H N D K S V	G		
UniRef90_F0Q5B5	S E P V A R A M A E G A V R H S R T Q Y A A V S V T G V A G P P S G G S A A K P V	G		
UniRef90_F0S250	S E E T A K E M V L G V K K L M N T E C A I S T T G I A G P T G E T P E K P V	G		
UniRef90_B6ENH7	S E E V V K E M A F G T L A H S E A D I S V S I S G I A G P P G G A T E G K P I	G		
UniRef90_R5CRN3	C E E V A I E M V K G A I K L L V D Y A I S A T G I A G P P S G G S T H E N P V	G		
UniRef90_H0JGJ4	S E E V A R E M A A G A L R D S P A Q V A I A N T G I A G P P G G G A D G I P Q G	G		
UniRef90_S9Q8Y4	S E P V V E M A E G A R I A A S A D I V A V A V S G V A G P P G G G T D L K P E G	G		

130 140 150 160

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UniRef90_A4A6M1	T V W L A W G D R D A V E T V C L C W P V E R V L F Q T M V A A A G L D V L
UniRef90_F8D4F5	T V Y I G V A Y A G S S Y A T A T R Y E F D G D R A A V R A R T V E R A L E D L
UniRef90_N6YYK0	T V C L A W A R R G D P V H A C T L R F S G D R T A V R R Q T V I H A L R E L
UniRef90_B1A1B5	T V W I G I S T P T E T K A K L L Q L T K Q R E V N I T A T S N N I L Q W L
UniRef90_T1ZXL3	T V Y I G L A T T G D V Q S I K V N I A G R S R T D V R K I A V L H A F N L L
UniRef90_UPI00028A26C9	T V Y I G L I G L A S S E G V Y A K K F S L G Q P R E K V I N G A I S K G L E L I
UniRef90_R6GIN0	T V C F G Y T I N G E T K T E T V H F G N L G R N V V R E K S V E H V L D M L
UniRef90_UPI0002D9BFC6	T V F V A L A T S E G T S F Q K F N W P G T R L E V Q S R T A K
UniRef90_F6DBG6	T V W L A W G R R R Q G A R I I T K V F H F E G N R Q A V R Q Q T T L A G L K G L
UniRef90_UPI0004647EBD	T V Y I G V A N K K E L K V E L L H L K G D R N Y N Q Y L A M M N A I R L F
UniRef90_X0QR30	T V Y I G L A F K D Q P V D V K L F H F P R Q R N D D V R T N A A M A G F F M I
UniRef90_Q5QUB7	L V W M A I A N S E S C W C W S E Q F A G D R T Q V R L Q T L D A V L D K L
UniRef90_H1CZE7	L V Y I G V S G P L G T E V H K E Q F F G S R R S V R Y G A A E K A L C Y L
UniRef90_UPI0003F98795	T V C F A L A T P D Q C F S Q R L K L A G R S R S A V R L V S A Y V A L D M L
UniRef90_I1AR49	R V C F A L A G K I T A A V V E T V E F G A L G R A N V R A A A T E H A L R L L
UniRef90_U4TFT5	T V W L S W C V S G D V T A E R Y L F A G N R E E I R L R A V H A A L T G L
UniRef90_G2MIC9	T V F I G L R A Y A G G S Y T S V S R H V L D G D R T E V K A G I A R T A L L E L L
UniRef90_E1SDQ1	T I W F G W V L P D G R D E A E C H Q F S G D P K S V M E Q G T Q F A L E E G L
UniRef90_H0C2Q3	T V W F A W C O V N G E T H S E M Q H F P G D R A T I R A T V R Y A L L Q R L
UniRef90_R9NDU8	L V Y I G C S V N G I T Q V T E N H F K G D R L A I R K Q T T E A A L E L L
UniRef90_C4L2V4	T V Y I G V K T P N G I E V I E R T Y L H Q E R N I I R M R A A K D G L W A L
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UniRef90_UPI00038224F3	T V F V A V S G P H G T G K V A A L R L N G D R A D I R R E S V V R S A L D D L L
UniRef90_R6E1L8	L A Y I G I G I C Y E G K T D V V K T K H R N V S R K Y N R N Y M L L V M L N E I
UniRef90_UPI0002F2C674	L V W F G L A L R Q G P A V A E K W V F P N N G R H F I R R E T V R H A L K
UniRef90_A3WC54	T V V F A R A Y R N Q D E P E G E L K H F E G G R A A I R H Q A T I C A L E L L
UniRef90_UPI00036A3001	T V F V A V A G P G D S L T V V R T G S G P E V R A I I R R M T V V C A L D L V
UniRef90_K1LHQ8	Q V F I G I A A Q K G H E V E S Y K Y Q F N F N D R N Q V R I R A C C R Q A L L L L
UniRef90_R7N799	L V Y I G I G A H N C R S Y A K E F N T G D R E T V R K K A C E E A L N M I
UniRef90_R5FRU3	T V C F A I C V K D K V F S K T L Y Y T E R N I L R E R S V V M T I L Y Y L
UniRef90_E4KLX8	T V Y L A I A D G K G Y L E S K C I H I D H K P R Q T V R E I T C L E A L N L V
UniRef90_UPI000379DA44	E V F I A V A G P D G V R S E R A R E H F A G D R P Q I R E W S V V Q A G L Y A L
UniRef90_D0BJH1	T V F V S L A D G V E T K T I E L H L A R N R G N R G N R E Y T V Q Y G L N E L
UniRef90_UPI00047BCA4E	R V Y L G L A D G R E T L K I K L N L N G D R D Y I R R W W A S Q N A L E F F L
UniRef90_R7ASH3	M V C F G F S I C G K T T T Y T C Q F G E I G R N Q V R K S S V E F V M A K L
UniRef90_UPI0004639E58	T V W F G W A L P D G D V I S R K K Q F S G E N T Q V I E D A A T W A L T E L L
UniRef90_V8BPC8	L V Y I G C Y L N G K T T V K E C R F T G N R M E N R L H T V E T A L E M L
UniRef90_UPI00035D683B	T V W L A W S G G G R E S G A R R F H F D G D R D A V R R Q A V A A A L E G I
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UniRef90_I1E194	I I L A V P G S S A Y I D R G F V T Y S N K A K Q Q L L A V R S A T L L Q Y G A V		
UniRef90_D5WM78	L A S V P G S G A C L D V G F V S Y S P S G K A G F L G V R E S T M K Q Y G L T		
UniRef90_D6Y800	L T D V P G A S A A F R F G G V I A Y A T E V K A S V L G V P A E L L A R E G A V		
UniRef90_R7BSD2	L T G I P G I S A N Y F Y E G L V C Y N R A S K V E R L G V P K S V L A D Y G A V		
UniRef90_M5DZE6	M T D L A G S S A W F E C G F V T Y S N E A K M Q H L S V S A E I L T T Y G A V		
UniRef90_UP100034C40DC	L V D L P G A S R A V R G G V V A Y A T D L K H S V L G V D P A L L E A H G A V		
UniRef90_X1SF54	I I T E A P G A S A Y F K G G L I P Y S N E A L I A Y G V D A K L I Y D Y G A V		
UniRef90_L7F2L9	I I T S V P G A S K V F R G G V T A Y A T E L K H Q V L G V D A A L L S A R G A V		
UniRef90_UP1000470CE46	I I T S V S S S R W F G C G F I T Y S N E A K Q R Q L G V K S A T L N E V G A V		
UniRef90_C8RZ18	I I T D V A G S S A V F R G F V T Y T N D A K V A M L G V Q G G T L D R Y G A V		
UniRef90_F9Y503	I I T D I A G S S A I F D R G F V T Y T N D A K V A M L G V Q G G T L D R Y G A V		
UniRef90_F6EUF5	I I T D V E G A S H A F E R G F I V Y S D E A K C E L L G V A R D R I D A C G A V		
UniRef90_UP10002D81D85	I I T E I A G S S A V L D R G F V T Y S N E A K M E M L G V S G D I I E A F G A V		
UniRef90_UP1000370ED94	I I T S V P G A S S R S F R G S V T A Y A T E L K R D V L G V D G A L L A E R G A V		
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UniRef90_G6EZE1	I I I T D D L P G S S S Y I E G G F V T Y S N Y M K T M L G V N Q A N L D K Y G A V		
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	90	100	110	120
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UniRef90_I1E194	S E Q T V C E M A Q G A A T A A G A D M A I A V S G V A G P D G G S A D G P P P V G			
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UniRef90_D6Y800	H P E V A A A A M A A G V R E L T R S D Y G I G L T G V A G P E P Q D G K P P V G			
UniRef90_R7BSD2	S R E T A Y A M V K G L C K R P D I A L A T T G L A G P T G D E G K P P V G			
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UniRef90_V5B7C2	S Q Q T A F E M A Q G A C D A S H E P V S I A V T G Y T G P D G G E D G T P V G			
UniRef90_A6GU75	S E E C V K E M A N G G M I A L G V D C C L S V S G I A G P G G G S A G K P V G			
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UniRef90_L1KWU8	D A Q V A A Q M A D G V R K A L G A D W G I S T T G V A G P P E P Q D G R P V G			
UniRef90_G2NYA5	D A E V A R Q M A R G V R R A L G A D W G V I A T T G V A G P P T P Q D G Q P V G			
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UniRef90_F3WSX6	S T A T A W A M A Q G A L S A S D A D I A V A V T G V A G P G G G T A K K P V G			
UniRef90_G6EZE1	S K Q V A L E M V S G A L N K F H A N I A V A V T G F A G P D T H D L V V G			
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UniRef90_F1Z94	S V A V A W S M A Q G A L A H S N A D V A V A I T G V A G P D G G S E Q K P V G			
UniRef90_D5NUF3	S E E V A A A M A A G T R K V C H S T W A V S L T G V A G P P D S Q D G H P A G V G			
UniRef90_R7HWF5	S E E T A R E M A E G I A R A N A N Q I G L S V T G T A G P G G G T A E K P V G			
UniRef90_B4RBU9	S E E P V A R M M A E G A L E A S N A H L A V A I T G V A G P P G G G T P M K P V G			
UniRef90_H1XA41	S A E V A E S M A S G A K R E L K T A W G V S F T G V A G P P D A L E G H S A G V G			
UniRef90_F5RH54	S E P P V A L E M A R G A L A H S D A T A A L L S I T G I A G P P G G A V P G K P V G			
UniRef90_UPI000479CDD4	S P Q V A E Q M A R G V K R R F Q S D W G L S V T G T A D V A P V G			
UniRef90_I0HXW9	S E E V A R A M A E G L L A R A P V E L T L A V T G I A G P G G A V P G K P V G			
UniRef90_R6ZU10	S E E T A R Q M A E G A A K A A N A E V A L S A T G I A G P P D G G T A E K P V G			
UniRef90_F4ARS5	S Q A V V E Q M A L G A T K A Q A Q N V A V S V S V G I A G P P E E G G S A E K P V G			
UniRef90_R5RX91	S A P V A R A M A E G A R R A T T A D L A V S V T G V A G P P E R D E R G N A V G			
UniRef90_UPI0002E185F2	D A T T V A A Q M A Q G A R R A L G T H V G I A T T G V A G P P S P Q D G R P V G			
UniRef90_UPI00037A27D2	H P E V A A Q L A E G A G D R C G A D W G L T G V A G P A G Q D G V V A P V G			
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UniRef90_R4LYF5	D A D V A V A L A E G A R T R C G A D W G L A T T G V A G P P D P Q D G K P V G			
UniRef90_X1QPG1	S Y Q V A E E M A Q G G R K I L A T D I C L A D T G I A G P P S G A T P G K P V G			
UniRef90_R4VF11	S Q S V V E A M A S G A K A D D P G V V T V A I S G V A G P P E G G T A E K P V G			
UniRef90_B1ZNL1	S A E C A V A M A T G A A E R L G A D Y G L A V T G F G S E T T G P G G N P V G			
UniRef90_D5UMB4	H P E T A V A L A D G A R M R C E A D W G V G L T G V P A E Q D G I A V V G			
UniRef90_Q1GTM9	S L A T A W A M A A G A L A N S D A D V A V A I T G I A G P P S G G S E K K P V G			
UniRef90_T8J9K1	S E K I A T A M E T G A K E R A D V D L I S I A T G Y Y G E P G G Q D G T P V G			
UniRef90_E2MTY9	S D L T A R T A Y M A L G V A N K T V A D W G I S L T G V A G P A M Q D G H A V V G			
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UniRef90_UPI0004779E0D	D A E V V A A Q M A G V G V R A R L G A D W G I A T T G V A G P P G G G T A D P V G			
UniRef90_X5KAN6	S E E V A I E M A K S C Q K F S S D I A I S S T T G V A G P P N K G E D G K D V G			
UniRef90_S0B152	S E Q T I K E M L K G S M S A Y R S D Y A I A S T G Y Y A E L D D T A P K E R Q V G			
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130 140 150 160

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UniRef90_F7V676	L V Y L G C Y A R G T V S V Y R N L F T G D R S R	I R D K A V Q R A L E I L		
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UniRef90_D3HVZ5	T I W I G Y G C N	T D V R T W K L S E D F G R D I N L S I A T S K A L Q L M		
UniRef90_D4JYD3	T V Y L G A A R D G V A C V K K L F V S R P D			
UniRef90_UP10003B4C362	L V Y F G F A S K S R V I T R K M V	F S G N R R L V R D K S S R F A I L M L		
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UniRef90_D5WM78	T Q C F A W S F R D Q F V T F A E T R R F S G D R N D V R S A A L Y A L S R V			
UniRef90_D6Y800	T V H I A L C G P G G G R T W H R D L R L	T G G R E E I R R E S C A E A L G L L		
UniRef90_R7BS2	L V Y I G V G G G D F I T V F E	R R F S G S R N E I R R A T S N V A L F Y L		
UniRef90_M5DZE6	T V W F A W G S A T E Q Q A S C M H F A G D R A S V R E Q S V L V A I S N L			
UniRef90_UP100034C40DC	T V H I A V S T P L G T R V D S L V I	A G D R D R I R R E A T H I A I R R R A		
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UniRef90_F9Y503	R V C F A V A G P G F C H T E T V E F G A I G R A D V R A R A T A H A L S L L			
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UniRef90_UP10002D81D85	T V F V A T G E P E G E L R F E G G E P G G G A E I R R Q A T L C A L E L L			
UniRef90_UP1000370ED94	T V Y V A V A G P T G S W C E R L Q L	N G D R A A I R T T V N A V		
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UniRef90_D4JQP2	T V Y I G L S V A G N T Q A R L A F T D P E N A R E Y I R K N T V L T A L Q W W V			
UniRef90_UP100036DAF1F	T V F I G L S S A G T S Y I N R E F V Q Q	R G V V K Q R A T S E A L M M C L		
UniRef90_A6EQ8L8	T V C I A V A G P R G V V V Q E	F S L G E H R R E R V I E K A K N K A		
UniRef90_UP10002F236B4	T V F L G V S G P N G D D H E L E H L S G G R D E I R R E S V S R A V D L L			
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UniRef90_H5WSD3	T V W F G F A Q R G R F Q V Q A E H R R F D G D R A A V R A A A R C F A L Q G V			
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UniRef90_C7Z3U1	M V F I G L A S P E Q A R G L G P F H P G D R D Q V R Q A T I L E A L A Q L			
UniRef90_K1JSC5	T V C I G W F A F N E H I V T Y V R T I H A H G S R S M V R R A T V L T A L E G L			
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UniRef90_A6GU75	T V W F G L A V R H K S I E A F H H V F E G D R D A V R Q Q A V Q A G L T L			
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UniRef90_X1A6T1	L V Y Y C C I L G P D G Y E K I F E K N F P G N R C E V K F R A A Q F V L N E L			
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UniRef90_G6EZE1	L V W I A L Q R R D R K A I A Y Q Y N F L G D R E V I R L Q T V I E A I K L L			
UniRef90_E9S9E1	T V Y V S A R Y K D K E I V R E L R L F E Y D R G M I R R L T T L K T M Q M V			
UniRef90_A4WSL2	R V C F G L A R C G G P T C V E T V E F G P L G R A E V R R A S V E R			
UniRef90_F1Z94	T V V F A R A R R G E D P V A E E L K L F A D G R E V R R Q			
UniRef90_D5NUF3	E V F I G C A G P D G T L V V R L Q V L S G D R N R A I R T Q A V D C A L E L L			
UniRef90_R7HWF5	T V C F G F S L N G K S Y T E R K F G D R E V I R E K S V S F S L E K A			
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UniRef90_R6ZU10	L V Y L G C Y C M G N T F V E R H F I K G D R S E V R			
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UniRef90_R4LYF5	M V F V G V A G A T L S T V Q Q L S S G S R P E I R R A T M T A A F G F L			
UniRef90_X1QPG1	L F Y I G L S			
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UniRef90_D5UMB4	T V Y L G L S G P S G A T V R M L R L D G D R A A V R A G A V T A A L R E L			
UniRef90_Q1GTM9	L V V F F A R A L R Q G D Y F T Q R I Q F E S T D R G A I R H A A T L F A L E L L			
UniRef90_T8J9K1	T V W F A W N I K G K M H T A V M H F D G D C E T V L A L V R F A L A Q L			
UniRef90_E2MTY9	E V W C G V S Y L D G V T A V R L P V I R E G S R A E I R R Q A V V L A L A L L			
UniRef90_X5LAH0	T V F I G L A G P V D T E V V E L L S G S R W D I R R A A V D E A I A R L			
UniRef90_UP10004779E0D	T V H V A V S G P S G A A K T A A L R L N G G R E E I R K E S V R R V L A L L L			
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UniRef90_S0B152	L I Y I G V S S K D K F S I K E L H V T G A R V D N T N E A V T E A L T L F			
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UniRef90_U2NJZ5	T I W I A V G D E S D V K T F K I S E D F G R D I N L A I A T N K A V S L L			
UniRef90_UP10002F8D3BD	T V I F A C L R G Q S E A E Q K N F D P T L S A R E I R Q			
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L|E A |V|E
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 A D K |I|K
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 L|D F |I|R
 G A |V|L|R
 L|K F |I|

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S I L P T I L V E L A D R V I I A N R R A G R T I | A V A E S C T G G L V S A A
 V I A W D G N D I Q E I I L K E M L T S R N L T L | S V A E S C T G G E L S R L
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 E P L E Y S I Y G L L K K Y Q I T T T A E S A T G G M I A S T
 D S P Q L V I A T L L A Q L A R R G W K L A G A E S S L T G G M I T S T
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 L Y A Q E D I P L E E A V L R L L R D R R H R L C T A E S C T G G L F A E L
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 I V Q L L D R R E Q T V A T A E S C T G G L L S Q S
 M D E T L L N A A K R A V Q S L K K R N L T L S S A E S C T A G M I S M A
 E L A Q S L V A R L T Q A D L T I A A A E S L T G G L V C S A
 Q E L I D I L R N K E L T I S C A E S L T A G L F A S T
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 D S M A G G V L A L L A E R G Q T L A V A E S S L T G G L V A A E
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 F V R I P G A S D T F L G S V N T Y A V A A K S R I L G V D H Q W L E D H G P V
 L I N V P G I S E F F T E G Y V T Y S N E A K V K M I H V A P E T I D T Y G V V
 I V D V P G A S E V L L G G V V T Y T D A I K N Q V L G V S E T L L E T Y T A Y
 I G E V P G A S S V F V G G F I S Y S N E V K I Q I V G V S E K T I L K Y G A V
 I T A I P G S S Y Y F K G G L V C Y A D S T K E E I L G V D K D I I S E Q S A V
 I T S R P G S S G E F I G G I V T Y T N A L K H Q L L G I P L E M L E G P G A V
 I A D T P G A S V V L V G G V V A Y A A E V K V E L L G V P A D L I A E A G T V
 I T S V A G A S R V F E L G L C T Y A N R M K E R L L S V P P A A L L N A Y G A V
 L C A A S D D G V P Y A S G F I T Y D D R A K N Q L L H V S A D T L T K F T A V
 L V D V P G A S A V L R G S V T A Y A T E L K A Q V L G V D A A R L A S V G P V
 M G E Y S G V S K V F K G G V V S Y W S E I K Q S V L N V P E S V I L S S G V V
 C T E L A G S S V W F E R G F V T Y S N A A K T E L L G V G A A L I E Q Q G A V
 I T G V P G A S R V F R G S V T A Y A T A L K R D V L G V D G A L L E E R G A V
 I T E V P P G A S D V F V G A G F V T Y S N D A K M K L L K V N S D V L E T F G A V
 C T D L A G S S A W F E R G F V T Y S N T A K T E L L G V D A V L I E T H G A V
 L L S F P G A S S Y Y L I G G L T L Y T L E S R I I A F A G G W T Q E T V S G Y S G P
 I T G V A G S S K W F D C G F V T Y A N S A K Q A M L G V P P Q E M L A S Q G A V
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 I V S V P G A S N F Y I G G K L V Y S L K Q R L L K S G W S D S E I S N Y M G P
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 L V I S V P G A S A V V R G G G V V A Y A A D V K T G V L G V E A D L V D A H G T I
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 L C A E E D T A A F Y D L G L I T F S D R A K T R I L G V K A S T L E K Y S A V
 L A D V P G A G A L L D C A Y V V Y S C E A K E Q C L G V K R E T I E R F N L T
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 V V A A L V P G G S S A V L R A G G L V T Y A N A A K E S S L L G V V A A T T L A R H G A V
 I S C I P G A S K V L S C S F V Y S N Y A K S K I L G I N M D M I D K Y G A V
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 I A T V P G A S A V L R G G G L V T Y A T D L K H S L L A G V P E S V L D A H G P V
 L S C I P G A S K V L D C S F V Y S N E A K A N I L D I D K E L I D K C G A V
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UniRef90_U2YP88	S E P I V C A M A R G A L Q R S E A S L A I	A I A I T G F T G K G S P S E E A G		
UniRef90_H6R3Y4	A A S T A E Q L A V G A R T R C G A D W G V	A T T G L T G V A G P D R Q G G Y P V		
UniRef90_F9ZTG0	S E A V V L E M L A G A L E H G D M A L A I	S I S G I A G P G G G A V P P G K P V		
UniRef90_Q5H9Z5	S P E V S L L M A T C A L K A S E A D I S I	S I S I T G F A G P S N N I L C E K V		
UniRef90_T5KUF2	H P Q V A L Q M A D G V I R S V S P A D V G	V S T T G I A G P D S P D G Q P V		
UniRef90_R7WSN4	A E S A A R A L A T G A R E R C G A H W G V	G V G T T G V A G P D P Q D G H P V		
UniRef90_UP100034AAC27	H P D V A V H M A R G A R N L A G A D L G V	V A V T G V A G P E P Q D G Q P V		
UniRef90_UP10003681DCC	A E E T A R D M A R G V R K A C D A T W G	V G V S I L T G V A G P D T Q D G H P V		
UniRef90_Q3YQP1	S S E V S I L L M S V G A L K N S R A N V S I	V I S I T G F A G P D G E Q V		
UniRef90_UP1000288A744	S S K E C A E A M A L A V A E K Y E A D I G V	I V G L T G A A G P D A H D G S P A		
UniRef90_M2NGD0	S S S Q C A E A M C K K G A E L F E S D I C	I S F T G N A G P L P M E D K P I O		
UniRef90_Q28Q62	S E E V A R A M A V G A L T R S D A Q V A	S E V T G N A G P G G S E H K P E G		
UniRef90_V5WG56	S P R T V E M M Y R G V L N N P G T G A C	V S V T G I A G P G G G S T E K P V		
UniRef90_B7C8F7	S E E C A Y A M A K N T R Q L M D V D Y C	I S F T G N A G P D A W E E K P A G		
UniRef90_V8RB91	S V E V A S E M A I G A L R D S T A N V A V	A T T G I L G P D D M D G I K A G		
UniRef90_UP1000429991F	T D S V A K Q M A E G A S K L F Q A D V A I	A T S G V A G P G P D G D H P S G		
UniRef90_UP10003B379A8	S I Q C C L A M A V N N L S K I S K A K A C	S I T G I A G P K G G S K Q K P I O		
UniRef90_V2JM10	S E E V S L A M A R G V L A L T D A N L A I	I G N T G I A D G K G D D G T P P G		
UniRef90_JOSUK1	D E E Q V A R Q M A E G A R V L F G G A A I	I S T T G V A G P G P A D G F P A G		
UniRef90_B5HFA9	D P R V A S Q M A A G V R D L M G A D W G L	A T T G V A G P G E P P Q D G R P V		
UniRef90_I4F262	S E R T A A A L A E G I I R V R C A A T W G	V G L I T G V A G P D P V D G H A P		
UniRef90_F9PJ98	D R D V A L Q M A H G V R R L L G A D L G	A T T G V A G P G P A D G H P A G		
UniRef90_F2BGM5	S E T V A R E M A S G A C A A A A A D Y A I	A I T G I A G P G G G S A E K P V		
UniRef90_A3PGX0	D P K V A R R M A E G A L A S A P A D L A I	A V T G V A G P G P A D G F P V		
UniRef90_C5DS35	S D N V A L L R L A R N L R L E L L G S T Y S	I S E T G Y A S L M P N N P E N K T G		
UniRef90_K0YPX0	D R R V A I Q M A R G V C E L T G S D L G I	A T T G V A G P G P Q G H P A G		
UniRef90_R6XYZ1	S S E V A E E M A E G L K K V T H A N V C A S	V T G K A E D E S G I C		
UniRef90_UP100036A3BA7	D P E V A A L M A E G V R R R L G S T W G	L A T T G V A G P G P A E G K P A G		
UniRef90_UP10004721086	D P V V A A Q M A V G T A V Q Y C V A D I G I	S C T G V A G P D P Q D D K P V		
UniRef90_W8R7U7	S E E V A T E M A I G A L N A S V A D L A I	I A N T G V A D D G E E D P G G		
UniRef90_R5ZJV7	S M K C A C E M A L S S E K F T G S D V A I	S F T G N A G P T A Q D G K P V		
UniRef90_U7UVE8	S K E T A R S M V A E L A E K I T G A D I V V	S V T G E A G P I P S V K D V		
UniRef90_UP100047B82DF	H P E V A R Q M A W G T A R Y C G R V I G L	S T T G V A G P G P D G D K P A G		
UniRef90_R7LDI3	C E E V V R Q M V V G S N K L F G T D Y A V	A I S G Y A G P G G P D G G K S V G		
UniRef90_A7ELL7	T P D V V A G I A E D V R P K L G S T Y C I	C E S G T A N P S G E G P N K Q P G		
UniRef90_W0J158	S D E G A V A M A V G V A E R L G A D Y G L	I A L T G Y G G P C A G S N E Y P V		
UniRef90_UP1000382633E	S Q Q V V E A M A R G A Y I A S G G N I A V	S V S V S G I A G P D G G T P D K P V		
UniRef90_UP1000466EA1B	H P E V A R Q M A Q A T Q P G Y D A V I G L	S T T G V A G P G P D G D K P A G		
UniRef90_V5PGA3	S K E V A I A M A E G A L V H S R A G V S I	A V T G I A G P G G G S A E K P V		
UniRef90_J7LPK7	D G Q V A E A M A D G A R R V C G A D L G I	I S T T G V A G P G P A D G F R E P		
UniRef90_UP1000372501B	D P L V A E Q L A E G A R T R C G A D L G	G L T G V A G P E P Q D G R E P		
UniRef90_W0GM76	S A Q T V L A M A Q A C Q K L F A S D I S V	A T T G V A G P G P D Q D G H P V		
UniRef90_J2A1J9	D G E V A L Q M A G G V R R V L G A D W G I	S A Q T V L A M A Q A C Q K L F A S D I S V		
UniRef90_E7GAE1	S K E I A A G L M A I H G Q R M F E S D L C	S F T G N A G P T A M E G K P V		
UniRef90_M2XF35	C E D A A C A M A S G A R D L L G A D V W G	I A L T G V A G P G E Q D G Q P P P		
UniRef90_V5SGH5	S R R V A E M M A R G A R E R M D C D L A V	S F T G N A G P G E A D E D G N P V		
UniRef90_UP100047CA878	S K E C A M A M A S Q T R K L T N S D Y S V	S F T G N A G P S S M E G K P A G		

	130	140	150	160
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UniRef90_UPI0003687321	T V Y Y V G C A L S T G E V F T Q E C H F S G N R P Q I R R A S V V A A L E L A			
UniRef90_R6B8T3	L V F I V G C Y L N G K T V T E R H M F S G S R M D V R K S A T E S A L S L L			
UniRef90_D0YVC2	I G F V A C V S P S S S R I R S L R L P A D W E R G R I R E A F T H A A L D L I			
UniRef90_B5ZAR2	L F Y I G I A L K D F A I V K K V I L N S S E R T F N R F S A W E A I S Y L			
UniRef90_R5GTL3	T I W I A V G S N E K V V T C K L E E D N G R D K N I A Q A T T T A M H M L			
UniRef90_UPI0003901CF1	L V Y I G I S R K G M E A S V Y T L Q A G G S R E M V R L R A A K H A L Y R L			
UniRef90_W9GG90	T V H V A V A G P R G T Q T R A L R L N G D R A Q I I R V A T V D R A L E L L			
UniRef90_R7H6B5	T V Y V G G L L Y Q G Q E Q V V C L H L F G Q E R N A I I R N G V A I C A F G M A			
UniRef90_H2J2B2	T V W F G W Y L G P G S Q Q E V R H F D G D C E A V I L Q A S I F A L E R L			
UniRef90_U1PJG7	T V Y I A A I A P W G S V W R L L Q E G Q R S Q I R A Q T V R H V L V L A			
UniRef90_R6R1H1	L V Y I G L C I N Q T T F S F E Y Y F K G T R N E I R K Q C V I E A T K K L			
UniRef90_UPI00047B2B57	M V C F G F M V D G Q L S S E T R R F A G D R R Q V R Q A T V R H A I Q G L			
UniRef90_UPI000474B706	T V Y V A V A A P G A T A V A R K L R S A V G R S G E I R T E S V R G A L E L L			
UniRef90_A0A031HJX5	T V V F A R A E K G G D V H A D R K A F G D L G R G G I R			
UniRef90_M2UN21	T V W F S W G A R V G L L L R A E R L L L P G D R A A V R A A A T E H A L R G L			
UniRef90_Q1YR86	Y V A L A V A R E G G D T A T R E A E T G S S E R E G N M V A F A V E A L K L V			
UniRef90_F5YK14	T V W F A W H S P A G V K A K K Y L L A G D R A A V R E Q A I E I S L Q E I			
UniRef90_UPI00035FADB9	T V W I G F A R Q G F S A E A L C R H Y D G D R S A I R N A A A G D A I S I L			
UniRef90_K5BFP3	T V W A A I A A P N M P S R A F K N L N G S F R W D I R M A A T R E A L V R L			
UniRef90_A9KLS0	Q V F L G L A G P A D T Q V V E L A L A G S R W D I R M A A T R E A L V R L			
UniRef90_S7W6G2	T V Y L S C Y Y K E K T H I I L L S G I G S R D E I I R S Q T V Q M A			
UniRef90_UPI0004671AB5	T V F I G F A A N N F V E T R N F E F V G D R A A V R Q Q A V Q Q A A L E C L			
UniRef90_A0A023HXF9	T V H V A L A G A G L A Q G R T H H A G D R A A V R R G A V E A A L R L L			
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UniRef90_UPI0003B41220	L V Y I G I G T K Q N T V T K R Y L F K G N R L K V R Q E T T L E A L K L A			
UniRef90_UPI0004637060	T V Y V A V A V S S P R G A E V R H L H V P G D R T A V R A G T			
UniRef90_UPI000367C357	M V W V A I A G P V C Q S I E L S L S G E R E S V R N A A T A S A I A T F			
UniRef90_C7D5L0	R V C F G I A Q R D Q I Q T S T V E F G S L G R A N V R M A A C C D Y T I L D L L			
UniRef90_S3K7B3	T V C I A C A C A N E H T S V Y S E K Y L F S G T R D A I R E Q T Y T A A V Q M L			
UniRef90_UPI00047CEC81	T I H I A L A G P A G T Q T I Q Y S S L P G F R S D I Q S R A A A W A M D F L			
UniRef90_U7DWC7	T I C F A W A Y R H G R S V F S Q Q E R F F G T R T Q V Q L M A A E H A L K L L			
UniRef90_A0A031FNX8	T V H I A V S T P L G S R V E S L I L E G D R D			
UniRef90_G3AFL5	T V Y I G L S G P N G E A S T S N S T G S H D R A K N M S E F A K L G L S F L			
UniRef90_U1H6R1	Y S C M A V A G S R Q S V Q V I T L E T G S S D R Q A N M Q A F A K A A L E L L			
UniRef90_E4BF34	T V F I A V V Y R G A P V V R H L Q L E G S R E E I I R R G T V E R L L L D			
UniRef90_UPI0003C7FA6D	R V W I A V A M P E G V S T E R L L D L V G D R A A V R T G A V A A V L S H A			
UniRef90_U3H873	L V C V A C A M D G E P W V V S E Q L R F D G D R N Q V R E A A A Q H V L L Q L			
UniRef90_H3LMM5	T V W F A W N F R G A I D A Q K V L F S G G C Q D V I E K S V R Y S L A M L			
UniRef90_Q5NY20	T Q C F A W A F R D G S A I F S E T H R F S G G R N E V R D A G A H Y A L			
UniRef90_UPI0004262878	S V Y I G V A T A E G S T S Y G Y S F E E G T R P E I I R G Q A C A A A L Q R L			
UniRef90_D7BN81	C V W I G W W Y Q G E S G A E Q F L F P G D R A T V R C Q T V D K A L E T I I			
UniRef90_V3P2N3	T V C F A W N I R G E T E T R T V L F S G D C E D V V I E K A V H F S L A E L			
UniRef90_U2YPP8	L V H I L A C A M S D G T V H H Q L C H F G D I G R G T T R I A T L R V A V A M L			
UniRef90_H6R3Y4	T V F L G L A G A G H T E V M R L K L S G D R W N I R L G A A R T A V A E L			
UniRef90_F9ZTG0	T V C I A W G R R R G G P G R A V H H F S G D R R W A V Q Y A A G S V A L L G R L			
UniRef90_Q5H9Z5	L V Y I G Y A I S E L E S E Y K K C Y F Q N M N R Y E I Q M S S V D F A L D F L			
UniRef90_T5KUF2	T V H I G V A T P A A M R T A T F R F L G D R D S I R A Q T V A A A L E E L I			
UniRef90_R7WSN4	T V F V A V A G P D D V V V R R L A L D G S R W Q I R I G T V S C A V S M L			
UniRef90_UPI00034AAC27	T V Y A A V V G T G G G P K V E R F R F T G D R S G I R H R T V E			
UniRef90_UPI0003681DCC	E V Y V G V S G P Y W T A A W T P L H V L S G D R S A E I R R S A V D A C L E M L			
UniRef90_Q3YQP1	L V Y V G Y A S N V D S D Y K K C C F S D N M S R N E I Q M L S V N A A M D F L			
UniRef90_UPI000288A744	T I W I G I K F H E H V R S Y E L N L G K K R N V N R L I T V K N A L Y R I			
UniRef90_M2NGD0	L I Y I G I V F F N E I F I Y E Y Q L N G S R K E I I J D Q A I H H G K E K L			
UniRef90_Q2Q6Q2	R V C F G L A T D G Q C H M Q T L D F F G P L G R A E I R A R T V A H A L T L V I			
UniRef90_V5WG56	L V Y I A T A G W N D R S P D R K R L F S G D R G A I Q H K A V V S A N V Q L			
UniRef90_B7C8F7	R V Y C A I A S K K A I Q V Y G F Q C T S L S R N D V R E H V V M Q M I D I L			
UniRef90_V8RB91	T V C F A W A F Q D K H F L F S T Q Q W F A G S R S E V Q T L A S E F A L Q Q L			
UniRef90_UPI000429991F	E V H I C V L T P T A Q V V R T V N I H G D R S T V R A Q S V			
UniRef90_UPI0003B379A8	L V Y I G L K N G K K V I V N K C N F K N N G R T F I Q K Q T V K K A L S L L			
UniRef90_V2JM10	T Q C F A W I I F R G R T V F E F S E T V R L I R G A R N E V R E A A A E F A L A Q I			
UniRef90_JOSUK1	T V H I V A C H E G G T E H R L V H L E G D R A R V R T G A I D A A L A L L			
UniRef90_B5HFA9	T V Y V S V A G P A G A G K V A A L R L N G D R G E I I R R E S V R			
UniRef90_I4F262	R V Y V L G L S D G L L T V V H E D L L P G D R A E V R A G A V V Q T A			
UniRef90_F9PJ98	T V H I A V V A P W G Q R H R E L L H L S G D R S Q I R C A T V M E V C E L A			
UniRef90_F2BGM5	T V C F G L A C R E G A S A R T A H F C G T R S E I I R R Q A A D F A I A A W L			
UniRef90_A3PGX0	T V C V A A A L R Q G E T R V S E H Y F P G S P R Q V L A T L R R A L Q E G			
UniRef90_C5DS35	M V Y F G I S G P H R D L C Q N Y S T G S G D R R Y N M Q Q F A I K G L E F L			
UniRef90_K0YPX0	T V H I V A C V M G A V E R H R F H M G D R E A V R N Q S V S A A L S L A			
UniRef90_R6XYZ1	K C D Y C I I V N D S K V L E N V S F Q G S R S R N Q V R T M Q T K H I M N R I			
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UniRef90_W8R7U7	T Q C Y A F A L M Q G E V S I S E T V Q F E G D R R V A I R K Q A A R Y G L E Q L			
UniRef90_R5ZJV7	E V W I G I S Y H G Q A K A Y K Y Q L E G D R R N S I I R E Q C V K E G L R Q L			
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UniRef90_W0J158	T I H I A L C T P H G V W S K K L S Y P G E R S V V R T R A V T M A I L D W			
UniRef90_UPI000382633E	T V W I G L F D G K A S H S R L L Q L S G S R S E I R T A T L N D V L S M L			
UniRef90_UPI000466EA1B	L V Y Y I G L A L P G Q P Q I V V R E L H C R G S R E E V R R Q S V L R V L E G L			
UniRef90_V5PGA3	L V H I A S A A E R D R Q			
UniRef90_J7LPK7	T V F I G I A G K S G T E S F E Y S F S G D R Q S I R E Q A C			
UniRef90_UPI000372501B	T V F L G F S P E G R W V R T A R L S G G R H E V R E A A A A A A L E H F			
UniRef90_W0GM76	V V Y Y S C I C O Y N N K T Y P F T F N F N S I L T R S E I K L A V C Q A V C T E L			
UniRef90_J2A1J9	T V F V A V R G P E G P G A V R R L A L A G D R D R I I R E D T I R A V			
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UniRef90_M2XF35	T V W L A V S D P T A V R A E R R R F D G D P E A V L E Q T V L R A L E M L			
UniRef90_V5SGH5	L V H S A V A A R A G N M D H L E Q R L E G L A P E T L R			
UniRef90_UPI00047CA878	L F Y C A I A T K E Q T K F F E Y Q V D L E R N H R G Y A V V N Q M I Q E L			

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

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UniRef90_UPI000462BEBC	L L V S V P G S S R V F S G G V V A Y D T A L K H L V L G V D G E L L R R T G P V			
UniRef90_H5UNS3	L T D L P G A S D V L R G G V V S Y A T D L K A G V L D V D D A A L L A A G G P V			
UniRef90_R7D8H6	I T D T E G A S A I F P G G Y V T Y L N E T K I F I G V E E E I I I R K Y G V Y			
UniRef90_R5IXG6	I T N V E G S S E I F P G G Y V T Y L N E T K I F I G V E E E I I I R K Y S V Y			
UniRef90_UPI00046E9BCD	I T N V P G A S E I F Y G G M I S Y S N E F K I Q Q L K V K K G L I K K Y G V V			
UniRef90_C2BFM0	I V D I P P G A S D V L K E S Y I T Y A N E I K H K L L N V S Y E T I E K Y D V V			
UniRef90_UPI000372AAD	L T A E K G V S K I V Y N M G L I T Y S N K S K S D L L N I V K P N Y I K K Y K A V			
UniRef90_UPI000478C70A	I T N V S G A S V Y K G S F I S Y Q N N F K T K V V K V K R V I K K Y G V V			
UniRef90_M7SSZ7	L T S V P G A S A A F R G G V L L S V D A D L I A R E G V I			
UniRef90_UPI0003B348C8	I V K N I G A S Q I F L G A F P Y S N E L K S F L S A D L S D G A V			
UniRef90_H7EZT1	G D I P G C G K V L E C G F V V Y S P E A K N R L E V N F D T I E E F G L T			
UniRef90_K5WAQ4	L L S V P G A S A Y Y A G G L T V Y T P S R I A F S G F T P E D F A D Y R G P			
UniRef90_Q8FQJ3	L A A A P D S S S W Y A G G V T S Y M T R I K Y D V L G V P E G D P V I			
UniRef90_K5VOR6	L L S V P G A S A Y Y A G G L T V Y T L A S R T T F C D F T P D D F V N Y Q G P			
UniRef90_W8QT14	L S E A P N A G K L D C A F V T Y T V A A K R E L K V S A D T I E K Y N L T			
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UniRef90_UPI0003FC6A09	L T D T E G S S A I L M K G A Y I T Y S N E A K I K Q G V P A D L I E K N G V Y			
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UniRef90_A3LXE2	I V T V P G A S N F Y I G G K L V Y S L R Q R L K L S G C T D E I L S S Y V G P			
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UniRef90_R5TF91	I T N I E G S S E V F S F G A V T Y S N E Y K I K M G V I A K D T I N K Y T V Y			
UniRef90_UPI000368F1C9	L L G K A P S S G S W Y R G G V V A Y H E D V K H T L L K V P E G P A I V			
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UniRef90_V5RJ73	L L S N I P G A S T V Y K G G F C Y S D F E F K I N Q L G I D A Q V I K K D G V V			
UniRef90_W6A6P3	L L S N T P G V S E F Y K G S F I C Y S N E F K E N I L Q I D A Q V I K K D G V V			
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	90	100	110	120
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UniRef90_UPI00047010CD	S E A A C V K E M S A G I L E I A R A D I A I	A I S G Y A G P E G G E D G T P A G		
UniRef90_V9XNF4	S E S S A A R T M A E S T S R L L G A D I V V	A V V S G A G G P D P Q D G R P P G		
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UniRef90_U2KXB3	S A E V A S A M V Q G L R T Q A E A D L C	S V T G L A G P G G G T P E Q P V G		
UniRef90_M1UFU6	S A E C A A A M A L G T Q K Q C E A V W A I	S L T G V A G P E M Q D G K A V		
UniRef90_A4FLY8	C P A V A E M L A V G V R T R C	G A D W G I G L T G V A G P D P Q D G V S P		
UniRef90_X8IPJ0	S G E V A V L M A D G A R R K S K S D I S	V S I T G Y A G P E A D E G R E N G G		
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UniRef90_UP100037C564A	S E A V V R A M A E G G V N L Q Y Q E N I C	I A I S G Y A G P S G G S V D K P V G		
UniRef90_UP100034D7B5A	S A E V T K G L A E G L L D N S G A A V T	V A I I T G Y A G P G G G N A K N P V G		
UniRef90_UP100026252AC	S E E T A L E M L N G L L R E A D L G V A I	T G I A G P G G A V P G K P V G		
UniRef90_R6BT13	C E E V A R E M V L G T I K T L N V D F A I	S A T G V A G P T T G G T P A I P V G		
UniRef90_FOM817	D G D V A A A M A A G A R A A L G S D V G	V A T T G V A G P E A H D G K P V G		
UniRef90_D1NT63	D P R V A R Q M A R L T A Q L F S Q P I G L	S T T G V A G P G P D G D K P A		
UniRef90_S5SV40	S E E T A A A M A A G A R E T C G S D W A L L	A L T G V A G P E G Q D G H P V G		
UniRef90_UP1000291A905	S A E V V Q A M V R G A Q Q R S G A R Y A	V A V S G I A G P G G G S T E K P V G		
UniRef90_C6XV68	S E T V T R S L T Q G I Q K L I P A D I H	C T G L T A P G G S E P W K P V G		
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UniRef90_Q0KBK0	S E A V V S L A M A L G A M E M T G A D L A I	A N T G V A D D G G D G D I P A G		
UniRef90_R7GQ85	S N E V V A G L M C I N G Q K M F D T D L C	S F T G N A G P D A M E G K K V G		
UniRef90_A5W359	S E A V A W E M A L G A L R D S S A N V V I	A T T G V A G P N P E S G V P P G		
UniRef90_G8Y6L5	S E Q V A L K L A R T T K Y E L G S T Y V L	S E T G F A G P T S S N T D V E V G		
UniRef90_UP10004638B5F	D P E V A R Q M A A R T A Q I F S Q P I G L	S T T G V A G P G P D G G K P A G		
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UniRef90_A6V645	S V E V A E A M A G A A L Q R S P A N A L A	V A T G V L L G S E A K D G I A P G		
UniRef90_X1K734	S E I V A K Q L A H N I R V L S N V D I G	I G I T G I A G P T G G T A E K P V G		
UniRef90_S2WDC6	D P D V A L Q M A A G V A R L L F G S T Y G	V S T T G V A G P G P A D G H S A G		
UniRef90_N1PMM8	T T D I V V S G L A K H V R K D L E S T Y T	L S E S G T A G P T G G T P N R T P G		
UniRef90_J2ZDC6	D E Q V A R Q M A R G A R L L F G A D I G	V S T T G V A G P G P A D G F D A G		
UniRef90_D0WQZ9	E E R V A L D M A R G V C R I M G A D V A L	A T T G V A G P G P A D G H H A A G		
UniRef90_UP10004667835	S Q E C A E E M V L K T Q K L L K S H L T I	S F T G N A G P T S L E N K N V G		
UniRef90_R6B7F2	S I E T A H E M S K N I S K F A C S T Y G	G I T G K I N R V D E N N S G K D N G		
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UniRef90_A0A022KWL5	S A E V A L Q M A A G A R A L Y A A D L A V	A T T G V A G P G P D A R G V P A G		
UniRef90_R5RC26	S K E V A S L M C V N G K Q I L D S D V C	V S F T G N A G P D A M E G K P V G		
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UniRef90_UP10003829996	D P D V A A A M A R G A L E R A R A G L A I	A I I T G V A G P G E P D Q G K P A G		
UniRef90_UP100036ADA08	S A E V T R E L A E R L Q T F I P A D L H I	A V T G L T C P G G S E P E K P V G		
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UniRef90_R7IVR0	S K E C A R A M A Q T V K E K L R T D I A I	G I T G T G N I D P N N A D S V Q Q G		
UniRef90_UP100047DF99E	T E Q R V R W V A D S A R I R L E A D W G V	V G E T G A S G P K P N P Y G D P A G		
UniRef90_C5DFJ1	S V D V A L R L A R N L K F E L G A T Y T	L S E T G Y A S R S A P G K E Q T V G		
UniRef90_W0EAR2	S S E C A E A M A K A G V K N T G A D L S I	I G V T G T F N V D P H N N D S V P G		
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UniRef90_H5UNS3	Q A E V V A Q Q M A V G V A R S C G A T W G L	A T T G V A G P G P A D G H P A G		
UniRef90_R7D8H6	S K E C A E E M A R T V Q E K M H T D I A I	G I T G T G N I D P N N A D S M Q G		
UniRef90_R5IXG6	S K E V V S D E M S A C I C Y R C T N S S Y G	I G I T G K L N R I D I N N D Y P S N G		
UniRef90_UP100046E9BCD	S Q E V A E E M V V K L I K K T K A H V G I	S F T G N A G P T S N N Q E Q V G		
UniRef90_C2BFM0	S P E V V A G E M L D G L H K A T G S D L C	I A T T G Y A H L A T T G Y A H L G		
UniRef90_UP1000372AAD	S Y E I I A E L M V I N L Q K I S R S Q L C	S T T G I A G P S G G T K A K P V G		
UniRef90_UP100047C70A	S Q Q C A E E M V I K T K N K L K T H V C	V S F T G N A G P S G L E D K P A G		
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UniRef90_H7EZT1	S E E V A R E M A V G A R A A S S A N M A I	I A N T G V A D D D Q E D E G		
UniRef90_K5WAQ4	T P Q I V E R L A V H A H K T L Q A T Y A L	I G E S G I A G P T T G P T R T R T S G		
UniRef90_Q8FQJ3	T E E A A S Q M A S G V S E L M N A D A A V	A V A T G G A G G P G R Q E D N P P G		
UniRef90_K5VOR6	T P A I V I E R L A T S T R A K I L Q A T Y A I	I S E S G T A G P T T A R P T T Q T L P G		
UniRef90_W8QT14	S E Q V A T E M A M G A L A R S A A N V A I	I A N T G V V D N I D P T I I K P G		
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UniRef90_M3GGV0	S G E I I A K E M A E G A L D A L G V D Y S I	S V T G I A G P G G G T P Q K K V G		
UniRef90_W2RWJ0	T P P Q I V I E R L A D N V R A K L L G S T Y T	V S E S G T A G P T G K A S N R Q P G		
UniRef90_D3R5V8	D P E V A V Q M A R G A A H Y A H G V V G L	S T T G V A G P G P D E G K P A G		
UniRef90_F8P01	S K P I A E A M A I G A L Q H S T A D I A I	S T T G V A G P E S D E T G I P V G		
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UniRef90_UP1000368F1C9	S E Q Q A A S A M A H S T A S L L I G A D L A I	G I T G R A D L H N L S G D N S		
UniRef90_F4MPU0	S F E C A K E M L I K Y E L T K T N I V L S	F S T G N A G P P N S M E N K P V R		
UniRef90_V5RJ73	S I E A L K I M L H K T K N I L N T D V V V	G F T G Y A T P I D L H N Q R S G		
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UniRef90_C4JDE7	U N I F E R 9 0 _ U P I 0 0 0 3 B 5 1 1 6 7	G V T G N A D P A N L E A S V P G	G V T G N A D P A N L E A S V P G	
UniRef90_UP10003821DFE	D P E V A G Q L A T G A A R H C G A D Y G V	G L T G V A G P S W Q D G V A P G		

130 140 150 160

UniRef90_B6BPT8	L V Y I G V K N N E I F I S K N F F K E K N R K A I Q K T T V T K T L K I I
UniRef90_U1U306	T V W L A W G D G E R L F S M R K Q F A G N R D E V R R Q T V E
UniRef90_F4GT64	M V C F G F A Q R K G V V T R A A T K I F E G D R A Q I R N A S V A F A L K T A
UniRef90_UPI00047010CD	T V W F A W N F R G Q T E T K R M C F A G D C E A V L A Q A V R Y A L S A L
UniRef90_V9XNF4	T V C F A T T G P D G T R S E E Q R F D G D P Q D V L A R T V R H A L S L L
UniRef90_F3SEG7	L V W F G V A G G G S V D T L S H T F A G E R W D V R A Q A V R T A L M L L
UniRef90_UPI00036D333B	L V Y V A V A G A A G S A V R E L K L D G N R E S I R T E S V T S V L R L L
UniRef90_U2KXB3	T V Y A G I L Y G K Q E Y V M H L Q R Y G L H T R E E I R H G A A V C I F G V A
UniRef90_M1UFU6	E V W I G I A G P A T R E S E Q Q V I L A E Q G R N F I R E A A V A Q S F R L L
UniRef90_A4FLY8	T V H L G F A G P S G A T V R S V H L G G D
UniRef90_X8IPJ0	N A F I G Y S C G G K L G N K R E L N T K R N D R K W N R N Y F K L R M L L T V
UniRef90_M9SN49	T V Y I A V A G P G G K S A A L R L N G D R T D I R M E S V R R V
UniRef90_UPI00037C564A	T V W M A V A G P N K V V Q S E K F F F Q G E R A S I Q K Q A S N E A I N L L
UniRef90_UPI00034D7B5A	T I Y I A A A A R K D A P L M A E R H V F P G S R D N V R L C A V A A A I R L L
UniRef90_UPI00026252AC	T V C I A A W G Q R N G Q Q Q V R T C H F R G D R W N V Q Y A S
UniRef90_R6BT13	T I Y V G Y G D K N D V R V V K L T E D F G R D I N L A I A T
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 I L K | Q C C | D A L | E Q N | L T | I A F I | E S A S S G Y | L A S Q
 A K I | L A K R | K L | K V F T | I E S A S A G Y | L H R
 I I Q K | C C | A L | E T | Q A L | K I | A F I | E S A S S G Y | L A S Q
 R L | L A K A | P | F S L | S S V | E S L T G G Y | F A S K
 D L L | Q M G S R | A G E | L L | K A R G E K | V A I | G E T | S A G G | L I S A S
 A V S | L I E | F F R E | R E E R | I T | L A E | S C T | C G M A A A | L
 Q H | C C | Q I | L E T | R Q L | K I | A F I | E S A S S G Y | L T S Q
 D D | L V | S K A | D R | I G A I | L T | K R G Q T | I A V A E S S A G G | L V S A A
 K | C V K | L L | A K K S | I S | T | F L E | S A S A G Y | L A Y R
 M Y P | T | L Y R | L A D Q | L G R | L V K S | R H Q Y | L A T A E S S C T G G Q | L A T L
 M S | I Y T | P | V | M N E | K A E S | F | L K E | I | K A R Q | L N | V V T A E S S L T G G | L V A A T
 I | F | G V D | D E T | L | P | G | A | V T | L | V | L | R | E | Q | G K T | I | A | V | A | E | N | F | T | G G Q | L S Y Q
 I | E | N | L | T | S | A | L | S | Q | R | L | I | A | D | Q | L | R | L | T | T | A | E | S | C | T | G | G | G | L | A | S S
 L | L | D | Y | I | S | Q | S | L | L | T | D | E | T | I | S | I | A | E | S | V | T | S | G | C | L | Q | L | A | A R
 E | S | L | T | S | G | N | I | A | A R
 D | Q | I | T | G | L | A | D | T | L | G | K | L | L | D | A | M | N | A | Q | V | T | T | A | E | S | C | T | G | G | G | L | A | E | A
 Q | N | N | L | T | I | S | V | C | E | T | F | T | T | G | N | F | M | T | M
 A | V | Y | G | T | D | D | T | T | L | G | G | A | I | L | E | L | L | G | R | S | G | W | T | L | A | I | T | E | W | A | S | G | S | R | L | T | S | L
 F | Y | G | G | E | H | S | T | L | I | E | K | V | V | A | Q | L | L | Q | E | E | E | K | Q | S | L | G | I | L | E | H | G | T | G | G | L | L | Q | A | E
 S | I | Y | G | R | D | G | E | M | L | A | A | N | V | A | R | R | L | K | A | R | G | E | S | V | A | S | T | E | L | G | S | A | A
 V | F | S | S | R | D | S | T | L | Q | E | E | T | M | Q | L | L | A | D | Q | N | K | T | L | A | I | L | E | G | C | S | G | G | M | L | A | H | L

50 60 70 80

UniRef90_I4D6K2	I T D V E G A S N V T P G G Y V T Y S N R Q K L A I L G V P E V I I E K Y G V Y
UniRef90_UP10004763880	L A A A P G S S E W F R G G V V A Y D R T T K H G V L K V P D G P V V
UniRef90_K8P7B6	L L S V P G A S A Y Y R G G V V I Y T P R A R A A L V N I T K E E M E A I G G A
UniRef90_Q2N9V8	L L T V P G A L D F F V G G G V V Y S L R A D V L F V L P R E A Y R G M R G T
UniRef90_R0KAP8	L L S F P G A S S Y Y N G G V T L Y T L E S R L A F G G W T Q D T V K T Y A G P
UniRef90_UP10003B509DF	L T D T E G A S A V L K G A F I T Y S N E A K I K Q N V P A D V I E K F G V Y
UniRef90_C4FEFO	L V R I P G A S M V F L G S A V T Y D V Q A K A S V L G V D R G L L E R E G A V
UniRef90_UP1000362AA2A	C T S I S G A S A D W F D T G V T Y T R H S K R D V L G L K D R E I R D G L V
UniRef90_R7XY77	L G A G T D A A T W F K G A V V A Y D E G V K F K V L G V T P G P V V
UniRef90_UP1000348BBC2	L V A V P G A S A V V R G G V V A Y A T P V K H T V L G V S E A L L A S N G A V
UniRef90_B2ASS6	L T S V P G A S A A F L G G G V S Y A T P L K Q T L L S V D A T L I A K E G V I
UniRef90_B8GXU2	L L S V G G A S A Y Y R G G A I V Y T P K A R A A L M G V T K D E M G E M R S A
UniRef90_X7XZ47	L T D R P G S S D Y V A G G L V V Y S D D A K T E L L G I D A A L I R T H G A V
UniRef90_C2G130	I S L E I N S G D Y F L G S V V C Y H D D M K I S S L G V D P K L I K K A G A V
UniRef90_U1L7U1	L V R T P G A S V V L R L G V V A Y A T E M K E Q V L H V P S D L L E E R G P V
UniRef90_UP100047E11FA	L T D T E G S S A I L K G A Y I T Y S N E A K I L Q G V P E N I I N E Y G V Y
UniRef90_G7XHF3	L L S A P G A S S I I Y K G G L T V Y T L D S R I T Y G W T P Q H L E N Y S G P
UniRef90_F4H761	L V A V P G A S T V L R G A V V A Y A T D L K A A L L G V D A D L L A R R G A V
UniRef90_S7HWX4	L S S Q S G S S K Y F V G G G L T A Y S I P M K V T L L G V D H E E A I R S N A V
UniRef90_C0D0N1	L V N V P G A S R V F M E G Y V T Y S N E A K M K L L G V R E E T L A A W G A V
UniRef90_UP100034D3D53	L V S V P G A S R A F S S G G V S Y D T A L L Q K S L L G V D E E L L A S K G P V
UniRef90_UP1000470D444	C T K R S G A S A W F A G S A V T Y S E Q I K H E L L G V P M E V I A Q E G V V
UniRef90_G2RZG0	I T N T A N A S Q V F I G S F V S Y S N D F K N N I I K I D Q Q L I K K Y G V I
UniRef90_Q9QX4N	I V Q R P G A S K Y F G A S I V A Y S N Q V K E K L G I D T S K G I I
UniRef90_D3Q2H6	V T A A P G A S A V V F T A G V A Y T P R M K T E L L G V P A E V I D S A G V V
UniRef90_C6X520	F S L A D D A M T F F Q G G G M T V Y N A G Q K A K H L N I N P I F A E Q C N S V
UniRef90_R8ZB75	I T R I P G S S G W F E A G Y V T Y S N R Q K T L Q L E V I P E S L F P A V G A V
UniRef90_S5DQ90	L V K N P G I S K Y F I G S F V D Y V G N Q K A S L L D N D V D F E N W
UniRef90_F6AD56	V A A V P G C D G V L E G G F V V Y S K R A M Q A S L G V K P E T I E T Y G M N
UniRef90_UP10003B78969	F V S V P G A S S V F L G S A V T Y D V K A K A S L L R V D A R L L R D Q G A V
UniRef90_D2R7K4	L S E V P G V S S H L V G S L V T Y Q N R S K A H W L G L D L A A L D R S G A V
UniRef90_UP10004092C7B	F S L T E K S G A V L R G G I V C Y E V F V K E Q I L N V P H S I I E K C T P E
UniRef90_W4L7A5	V A P L P G A E S V F R R G L V A R H V D Q L T S A L D M A N A P D V D T K P P
UniRef90_A0A041PN93	L T D R P G S S K Y V A G A V V A Y S N E A K A Q L L G V D P A L I E A H G A V
UniRef90_D4JC56	I T D T E G S S A V V F K G A F V T Y C N E A K V M Q G V P A D I L D R Y T V V Y
UniRef90_D5SX7	L A Q T P G I S T W L C G S A V V Y Q E Q T K T W L G V S A A T L A Q Y T A V
UniRef90_T0I6X9	MS Y A N S A K E T L L G V K S S S L L Q E G A V
UniRef90_Z5X448	L A G V P G A S A V L S G G V V T Y T V E T K I A L A G V P R Q L L D D V G P V
UniRef90_S3DFE8	M L S T S G A S K F Y K G G L T L Y T L E S R I A F A G W T Q D N I S T Y R G P
UniRef90_F7S7K4	L T D I A G A S A V F G H G F V S Y A N D A K V A M L G V E P G L I A R E G A V
UniRef90_UP1000381CE77	I R D F S G A S A N V F N G G F V T Y S M E E K S K M L D I P L A D L Q A H G V V
UniRef90_M3VDJ2	L S K A P Q A G T W F R G G V V A Y H S D V K Y G L L E V P E G P V
UniRef90_W5TLG2	I A G V P G A S A V L R G G I L I V Y A T D L K H R L A G V G E D T L A T E G P V
UniRef90_X1QBC7	F T N I P G A S K V F E R G I V C Y S N Q A K I D D L L N V E R K S L E I H G A V
UniRef90_L8DT71	M T Y S E E T K Q S I L Q V S P Q V I K E K G V V
UniRef90_W7CJL6	I A N H A G V S T I F K G G M V T Y A T S L K T D L G V D A A L I A R E G V V
UniRef90_D7CRT3	L T S V A G A S A A Y A G G L I T Y Q T A Q K V A F G V P R K L L D T H T S V
UniRef90_N9LHS6	F S L N P L S G N I L V G S L V C Y D L S V K K D L L K V S S K L I Q K H T A E
UniRef90_S5MB16	I T N I K G S S D W F M G S F V C Y S N D F K N N I L N I D I E I I K K Y S A V
UniRef90_UP100026299F9	L V D V P G S S A A V A G G A A C Y S Y A A K H R V L G V D A A E L E R T G A V
UniRef90_E3DA57	F V K I P G A S R V F L G S A V T Y D I R E K S K I L G V D C D L L K S C G A V
UniRef90_D0S9M4	F S I Y K H S G D I I L L G G L V S Y D P S I K C E I L K I D P A L I Q Q Y T A E
UniRef90_K2SMN7	I L S V P G A S A V Y K G G L T L Y T L E S R L A F G G W T Q E Q I D N F T G P
UniRef90_W1TY04	M V A Y Q E R R K E A W L D V R A E T L A R Y T A V
UniRef90_A0A059MRV9	I A G V P G A S V V L R G G L I V Y A T D L K S T L G G V D P E R L A A D G P V
UniRef90_H6MYF9	L S R A Q N S G A W F A G G V V A Y R P E V K H G L L E V P P G P V
UniRef90_Q6N953	L L A V P G A S A Y F V G S A V V Y T R E A R R V L M D I P D D M K G L R S S
UniRef90_W9TWC7	M Q K T L Q L G V P A Q L F E Q V G A V
UniRef90_A3WBM4	L L T V S G A L D F F V G G G V V Y S F R A R D V L F D L P R V A Y K G M R G A
UniRef90_N8QV18	F S I H K N S G D I I L L G G L V S Y D P S I K I S I L K V D P N L I N M Y T A E
UniRef90_N9DR14	F S I Y K N S G D I I L L G G L V S Y D P S I K I S I L H I V P S F I D A Y T A E
UniRef90_C8PV63	L S L S R Y S G N V L L G G I V C Y D L S V K T D L L K V D S M L I E Q Y T A E
UniRef90_K6VYF5	F S I F K N S G D I I L L G G L V S Y D P S I K I E V L K V D S M L I E Q Y T A E
UniRef90_C5J5K4	I V S Q A G A S S F Y K G S I I A Y S N E I K E K L G I D T S K G V V
UniRef90_UP10003B6454B	L L A V P G A S A S S F Y F A G G A I T Y S K R S I R G L A G I D E M T T R G I R S S
UniRef90_R7GBP6	M P G A S D V L Q G A L V T Y Q N H I K E E V A H V E K E I I D T Y G V I
UniRef90_X1FT52	M P G A S D V L Q G A L V T Y Q N H I K E E V A H V E K E I I D T Y G V I
UniRef90_M5TWJ3	V G Q V P G A S E V F C G S A V T Y R E S A K T D W L G V D A A A L R Q F T A E
UniRef90_N9D6N6	F S I H K N S G D I I L L G G L V S Y D P S I K I S I L K V D P N L I N M Y T A E
UniRef90_X0VY03	I A S G R E S Y T Y F K G G L L A C C D E A K M A C G V E T S I M E R Y G K E
UniRef90_M7YSD2	L L S V P G A S A Y F L G G A V I Y T A T A R S A L L G I G E A E M A G L R S A
UniRef90_N9QV69	F S Q N K Y S G D I I L Y G G L V C Y D M K V K E N I L K I K R E F I E K Y T P E
UniRef90_UP100029A18BE	L T S V P G A S Q W F T G G V I V Y A T E L K H T L A G V P A D V L A A D G P V
UniRef90_UP100046631E3	V A G V P G A S A V L R G G G V I V Y A T E L K H T L A G V P A D V L A A D G P V
UniRef90_F4Y206	I V N I P L Y G S Y T Y G G F S T Y D S D A K R K M L G V I K G D V Y
UniRef90_R4KCJ7	L S S A A G A E S T F T A G L V A R D Y R Q L Q E K A C L Q L G D I P T R
UniRef90_X1KCY6	I Y F K G G L V A Y T N E V K I S Y G V S T A L I T R H G A I
UniRef90_UP10003EF197C	I R T L Y G T G C H F C C H F L T H R I S F K R L L A Y A E D F H L C L I G E
UniRef90_W4TB24	F S Q M K N A S L F Y K G G M T A Y T L P Q K V N L L K V N K Q E A E E C D C V
UniRef90_K1DUX0	L G R G Q N A S Q W F A G A V V A Y S V D V K T T V L G M T R G L D P V
UniRef90_F3P0E9	I T R I A G S S S V W F E A G Y V T Y S N A Q K T R Q L G V S E A L F A Q V G A V
UniRef90_S6VQ89	M T Y A S D L K N T L A G V D A R W I A Q D G V I
UniRef90_S6G3U3	L T K M V D P A K I F R Y S C M G F S N K F K I N T M D V N K N L I R R H G P H
UniRef90_R5GTL5	M F L G S A V T Y D I R A K A K I L G V N A D L L A R E G A V
UniRef90_M0P2K6	L A E E P A A G Q F L R T A T I L T S Q P P L D S S L
UniRef90_B9L1M7	L Q N V V S N T E L V T G G F N G M S A L L D L T D D E I E L S G D N
UniRef90_D8ME41	M L L G G V A Y S N P V K Q K L L N V D P A I L L D E Q G E V
UniRef90_S7QNB9	L S L A A G Q P Y Y S S G G K I G Q L G I E S G G L S
UniRef90_UP10003FB7697	L A D E P T F L D A A V T Q D H R R L I T L G L T P V T L H A Q G L V S E T S G P F
UniRef90_C1CXY3	L T H Q L A L Q G F S G G T V V G
UniRef90_L0A4S8	A T G T E A G S K A L L A R V V H E D F Q G F S R T H V D P L

	90	100	110	120
UniRef90_I4D6K2	S E C A K A M A I A G Q K N T Q A D F S I	G V T G T F T T I D H N E D S E P G		
UniRef90_UP10004763880	A E P A V R A M A E N A A E M F G A D V V V	A V S G A G G P D P Q D D Q P P G		
UniRef90_K8P7B6	T E P Y A T L L A N R A R E L L N T T W G L	S E T G A T G P S G N R Y G D A A G		
UniRef90_Q2N9V8	S E D Y A L L Q A R A I R D N F G A E W G I	A E S G S V G G S S H P S G A P A G		
UniRef90_R0KAP8	T P A V V S G L A E H T R S T L R T T Y T	V S E S G T A G P T G G T T N R T P G		
UniRef90_UP10003B509DF	S E E T A L E M A L A A G R A Y D A D I S	V G V T G M G N A D P A N Y D S T P G		
UniRef90_C4FEFO	H P E V A R Q M A S C A A Q Y H G G V V G	L S T T G V A G P G P D G D K P A G		
UniRef90_UP1000362AA2A	S E A T A L A M C E H I A K L S A V D V A L	I S T T G V A G P S E S E G Y K P C		
UniRef90_R7XY77	T D S C A R Q M A E G V R H L L G A D L A I	I G I T G V G G P G P E E G R P A G		
UniRef90_UP1000348BBC2	D P E V A R Q M A S G V R Q A L A V D W G I	I S T T G V A G P D P Q D G Q P V G		
UniRef90_B2ASS6	H E E V A S Q M A E G A R R I T T H D W G	V G T T G V A G P D K Q D G K A V G		
UniRef90_B8GXU2	S E P Y A Q F M A R T V R E R M A S T W G L	A E T G A T G P S G N A Y G D A A G		
UniRef90_X7XZ47	S E P V A Q A Q M A A G A L Q R F G A D T A V	A I T G I A G P A G E R G		
UniRef90_C2G130	S E E V T H A L L N G L K E Q Y E A H I A V	A V A T G F A F E D K A S P E N P V G		
UniRef90_U1L7U1	D P D V A I W M A R G V R H R S A C T I G	V A T G V A G P G A Q D D H A P P G		
UniRef90_UP100047E11FA	S I E T A T H M A N A C K K S L G A D I G I	I G V T G M G N I D P N N A D S V P G		
UniRef90_G7XHF3	T P E I V A G A E N V R G T L K S T Y T V	C E S G T A G P T G G T		
UniRef90_F4H761	D P D V A R Q M A S G V R D R L G A D V G L	A T T G V A G P A A Q D G N P P G		
UniRef90_S7HWX4	S E L V A R Q M V D G C T K L F S S D I A	I S T T G Y A E P F T D D N G D R K R		
UniRef90_C0D0N1	S A Q T A E E M			
UniRef90_UP100034D3D53	D E L V A Q Q M A A G A R R A C A V D I G	I A T T G V A G P D P D Q T G Q S P G		
UniRef90_UP1000470D444	S A R V A E L M A L G V R K L F H S D L A L	A T T G I A G P T G A L P S Y P V G		
UniRef90_G2RZG0	S K Q T A E Q M T K N T Q Q L T N A D L T	V I S F T G N A G P N A S E N K P I R		
UniRef90_Q9QX4N	N A N V A L E M A K K G K A F F E A D L C	F S F T G N A G P D A W D N K E V G		
UniRef90_D3Q2H6	S R E V A V A A L A L G A R D R T G A D W G	V G T T G A A G P E A H G G Q P P G		
UniRef90_C6X520	S K E I A E R M A L N I A D S F N A E I G	I S I T G Y A Q P V P E D G I D S C		
UniRef90_R8ZB75	S R E V V I E A M V R G A Q R H S G A R F A	V A V A V S G V A G P		
UniRef90_S5DQ90	E E L C V N L T H S S L E K Y K T D I C	L S S S K Y S V G		
UniRef90_F6AD56	S E E V A R E M A L G V L M T S S A D I L I	A T T G V A G P T A D D K R G E V Y D G		
UniRef90_UP10003B78969	H P A V A A Q M A E G V A Q Y A G R V L G	I S T T G V A G P G P D E R G R A E G		
UniRef90_D2R7K4	S P E V A L Q M A E R G R Q T P H A S L A L	S I T G H L G P N A P A D L D G V A		
UniRef90_UP10004092C7B	S A D V T K I L A Q T L K I F N S K I A V A	I T G L T T P G G S E S E K P V G		
UniRef90_W4L7A5	T I E F A E Q V A Q A A R V Q T G A T H A L A V I	V A I E D G E D R I D L G G		
UniRef90_A0A041PN93	S E P V A Q A M A A G A L Q A S			
UniRef90_D4JC56	S K E T A E A M A A A C A K T Y Q A D I G	I G V T G T M D P A N P D A S V P G		
UniRef90_D5SX07	S R E V A Q E M A A G V L Q O L T H A D I A A I T G H	P H A P I P Q D G		
UniRef90_T0I6X9	S E L V A G E M A E G T R K A L G A D I G I	A T T G V A G P G G G T A D K P V G		
UniRef90_Z5X448	A P A T A A A L A E G A R D R C Q A T W G	V G L T G V A G P E P H G G H P V G		
UniRef90_S3DFE8	T T D I V A G L A S N V R P K L G A T Y C I C	E S G T A G P T G G D P N R T P G		
UniRef90_F7S7K4	S E T V A R A M A E G A R A G A D L A V A V A T G I A G P E G G I G G			
UniRef90_UP1000381CE77	S A F T A E A A M A A G A R S K T G A D I A V A S L T G V A G P D S L E G Q P A G			
UniRef90_M3VDJ2	S E T A A R A M A A T T A R L F D A E I V V A V T G E A G P E P D E A A P G			
UniRef90_W5TLG2	A A A T A Q Q L A V V G A R T T C S A D W G	V G L T G V A G P P D D Q N G C P V G		
UniRef90_X1QBC7	S E N V V K Q L A Y N I R T L S N V D I G I G I S G I A G P T G G T P E K P V G			
UniRef90_L8DT71	S A E C A K E M A E N V S R L C K T D I G I S F T G V A G P D S L E G H P A G			
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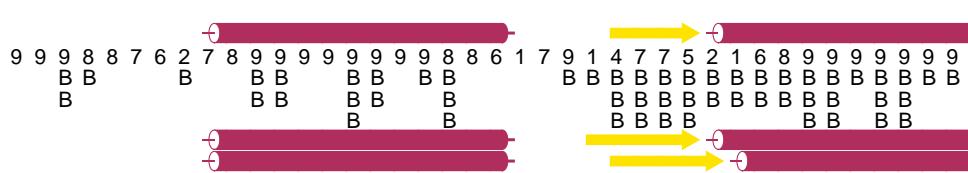
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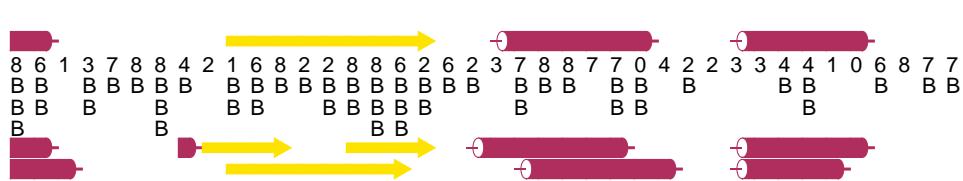
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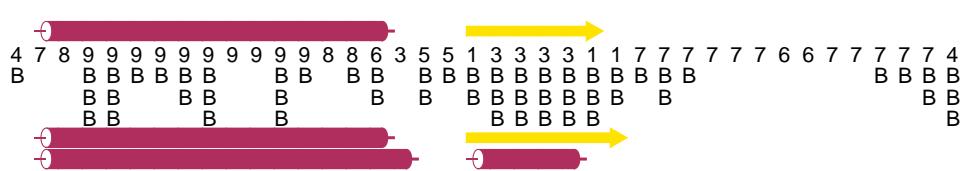
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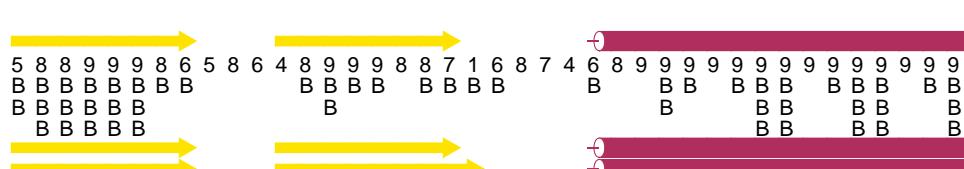
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T T V I S | L | G | V | N | N | Q | F | T | H | A | R | T | L | V | G | D | I | N | R | K | Q | 130
Q | Q | S | A | L | L | S | L | D | L | L | 140
150
160

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