

QUERY	1	10	20	30	40
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UniRef90_CQQWM4	E	F	M	V	T
UniRef90_L8JKNO	E	F	M	V	T
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UniRef90_U2E371	E	F	M	V	T
UniRef90_G7ZAD0	E	F	M	V	T
UniRef90_B0TCA0	E	F	M	V	T
UniRef90_C8WS05	E	F	M	V	T
UniRef90_R61G6	E	F	M	V	T
UniRef90_A8ERY3	E	F	M	V	T
UniRef90_W4L7Z6	E	F	M	V	T
UniRef90_UPI000366B2C7	E	F	M	V	T
UniRef90_S8FF54	E	F	M	V	T
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UniRef90_V4KTX9	E	F	M	V	T
UniRef90_Q30YH6	E	F	M	V	T
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UniRef90_UPI000470F04B	E	F	M	V	T
UniRef90_F5YEQ2	E	F	M	V	T
UniRef90_F9N5M6	E	F	M	V	T
UniRef90_E4L9U3	E	F	M	V	T
UniRef90_S0EYC9	E	F	M	V	T
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UniRef90_H2CEE1	E	F	M	V	T
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UniRef90_Q3A0V2	E	F	M	V	T
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UniRef90_B3IWT4	E	F	M	V	T
UniRef90_D8IVU9	E	F	M	V	T
UniRef90_E9V0H8	E	F	M	V	T





QUERY UniRef90\_UPI0003741664 UniRef90\_I7J6J6 UniRef90\_CQQWM4 UniRef90\_L8JKNO UniRef90\_UPI000422107F UniRef90\_U2E371 UniRef90\_G7ZAD0 UniRef90\_B0TCA0 UniRef90\_C8WS05 UniRef90\_R61G6 UniRef90\_A8ERY3 UniRef90\_W4L7Z6 UniRef90\_UPI000366B2C7 UniRef90\_S8FF54 UniRef90\_UPI00046D0033 UniRef90\_V4KTX9 UniRef90\_Q30YH6 UniRef90\_UPI0003711C6C UniRef90\_UPI000470F04B UniRef90\_F5YEQ2 UniRef90\_F9N5M6 UniRef90\_E4L9U3 UniRef90\_S0EYC9 UniRef90\_UPI00036E2F8F UniRef90\_UPI00036FAED7 UniRef90\_H2CEE1 UniRef90\_F0SX89 UniRef90\_D0WGP6 UniRef90\_UPI0003B3D0E9 UniRef90\_L7VM58 UniRef90\_C1A8L8 UniRef90\_A8SMB2 UniRef90\_T0SSV3 UniRef90\_D7BKY8 UniRef90\_UPI0003774E4B UniRef90\_A5V0S2 UniRef90\_E4U2W5 UniRef90\_D1VW05 UniRef90\_R7KGU5 UniRef90\_UPI00047E763F UniRef90\_UPI00029AE86 UniRef90\_V4JHE5 UniRef90\_K4LG54 UniRef90\_UPI000381B08A UniRef90\_R7J119 UniRef90\_K9CZ83 UniRef90\_R5I5A5 UniRef90\_L7VKF0 UniRef90\_C7NEY9 UniRef90\_C3XFJ9 UniRef90\_E2FB22 UniRef90\_M5DNY0 UniRef90\_UPI00035CD701 UniRef90\_C0VYI9 UniRef90\_D4K3P3 UniRef90\_Q93FX6 UniRef90\_B1C9G1 UniRef90\_I2JEJ4 UniRef90\_UPI00037112BC UniRef90\_UPI0003B5EC1C UniRef90\_K9UZY8 UniRef90\_K6XCA9 UniRef90\_X0UIP9 UniRef90\_F0RSA1 UniRef90\_D4J3L2 UniRef90\_Q47TE8 UniRef90\_Q7TTY9 UniRef90\_D7CVW2 UniRef90\_V9VTZ0 UniRef90\_F4KTA8 UniRef90\_K6WU40 UniRef90\_UPI0003FB4E62 UniRef90\_D1B118 UniRef90\_R6WEZ8 UniRef90\_W3AAB2 UniRef90\_X8INE7 UniRef90\_A9BHK4 UniRef90\_R6LK51 UniRef90\_R6EHA5 UniRef90\_X1KRT5 UniRef90\_A1R8M1 UniRef90\_Q7MBC7 UniRef90\_F8GHB0 UniRef90\_Q9KI71 UniRef90\_I2K740 UniRef90\_UPI000360EF9C UniRef90\_Q3A0V2 UniRef90\_Q8L7B5 UniRef90\_B3IWT4 UniRef90\_D8IVU9 UniRef90\_E9V0H8

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



QUERY	170	180	190
UniRef90_UPI0003741664	R K Q Q I I E E E T T S S D Y D R E E K L Q Q E E R V A K L A G G V V K L V N		
UniRef90_I7J6J6	K A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_CQQWM4	K K Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_L8JKNO	K S Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI000422107F	R A Q Q A E E A T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_U2E371	R A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_G7ZAD0	R Q Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_B0TCA0	R R Q Q H E E E T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_C8WS05	K A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_R61G6	N A Q Q I I E E E T T S S E Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_A8ERY3	K A E E I I S E N T T S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_W4L7Z6	R A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L V G G V V A V A V		
UniRef90_UPI000366B2C7	K S Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_S8FF54	K A E M Q E E E T T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI00046D0033	R A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L V I G G V V A V A V		
UniRef90_V4KTX9	R T Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L I V G G V V A V A V		
UniRef90_Q30YH6	R N E I D A S D S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_UPI0003711C6C	K A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI000470F04B	K A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_F5YEQ2	K A Q Q A E E A T S S E F D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_F9N5M6	R E Q Q F K E N S T S S Q F D K D K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_E4L9U3	K R Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_S0EYC9	K K Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI00036E2F8F	K R Q Q I I E E E T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI00036FAED7	R K Q Q I I E E E T T S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_H2CEE1	K K Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_F0SX89	R V E I T D N A T T S S D F D R E E K L Q Q E E R L A K L A G G V V A V A V		
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UniRef90_UPI0003B3D0E9	R K Q Q I I E E E T T S S E Y D K E E K L S E E R L A K L A G G V V A V A V		
UniRef90_L7VM58	R G A I D K S T S S E Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_C1A8L8	R N Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_A8SMB2	R K Q Q I I E E E T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_T0SSV3	K T Q Q I I E E E T T S S D Y D R E E K L H E E R L A K L A G G V V A V A V		
UniRef90_D7BKY8	R T Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L V I G G V V A V A V		
UniRef90_UPI0003774E4B	R A Q Q I I E E E T T S S D F D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_A5V0S2	R T Q Q I I E E E T T S S E Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_E4U2W5	R G Q Q I I E E E T T S S D Y D R E E K L Q Q E E R V A K L V I G G V V A V A V		
UniRef90_D1VW05	R T Q Q I I E E E T T S S D Y D R E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_R7KGU5	R K Q Q I I E E E A T S S D Y D R E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_UPI00047E763F	K K Q Q I I E E E T T S S D F D R E E K L Q Q E E R L A K L A G G V V A V A V		
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UniRef90_UPI000381B08A	K K Q Q I I A E E T T S S D F D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_R7J119	K S Q Q I I D N T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_K9CZ83	R K E I I E E N T D S S E W D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_R5I5A5	R T Q Q I I E E E T T S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_L7VKF0	R A Q Q A E E E T S S D F D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_C7NEY9	R A E M E A S T S S D Y D K E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_C3XFJ9	K T Q Q I I E E A T S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_E2FB22	R A E I A K S D S S E Y D K E E K L S E E R L A K L A G G V V A V A V		
UniRef90_M5DNY0	R N Q Q I I E E A A T S S E F D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_UPI00035CD701	K A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_C0VYI9	K A Q Q I I P E E T T S S E Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_D4K3P3	R A E I I E E N S S S S E Y D R E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_Q93FX6	K A Q Q M E E N T T S S E Y D N E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_B1C9G1	K R Q Q I I D D T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_I2JEJ4	R K Q Q I I E E N D S S D Y D Q E E K L Q Q E E R I A K L A G G V V A V A V		
UniRef90_UPI00037112BC	K S E I E E E R T D S D Y D R E E K L Q E E R L A K L A G G V V A V A V		
UniRef90_UPI0003B5EC1C	K L Q Q K E E E T D S S D Y D R E E K L Q E E R L A K I A G G V V A V A V		
UniRef90_K9UZY8	K V Q Q I I G D T T S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_K6XCA9	R T Q Q I I D E E T T S S E F D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_X0UIP9	R A E I E E E R T D S S D Y D R E E K L Q Q E E R L A R L A G G V V A V A V		
UniRef90_F0RSA1	R R E I I E E L S T S S D Y D R E E K L E E E R L A K L A G G V V A V A V		
UniRef90_D4J3L2	R T E I I E E N T D S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_Q47TE8	R T Q Q I I E E D T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_Q7TTY9	R S Q Q I I E E L T T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_D7CVW2	R N E I E E K S D S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_V9VTZ0	K A Q Q I I E E E T T S S F D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_F4KTA8	K A Q Q I I A E E T S S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_K6WU40	R H Q Q I I A E E T S S E F D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_UPI0003FB4E62	R S Q Q I I E E E T T S S F D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_D1B118	K G E I I E E E T T S S F D K E E K L Q Q E E R L A K L V G G V V A V A V		
UniRef90_R6WEZ8	K A Q Q I I E E N T S S D Y E K E E T L Q Q E E R L A K L S G G V V A V A V		
UniRef90_W3AAB2	K N T L A V T T S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_X8INE7	K T Q Q I I E D T T S S E F D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_A9BHK4	R S E I I E E L S T S S D Y D K E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_R6LK51	R A E L T R T D S S D W D K E E K L Q Q E E R L A K L A G G V I G V A V		
UniRef90_R6EHA5	K Q Q Q I I E E T D S S E Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_X1KRT5	H K L I E A P T S S D Y D K E E K L Q Q E E R A A K L S G G V V A V A V		
UniRef90_A1R8M1	R S E I I E A S D S S D Y D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_Q7MBC7	K T Q Q I I G A T T S S E Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_F8GHB0	R A E I I E E Q S D S D W D R E E K L Q Q E E R V A K L S G G V V A V A V		
UniRef90_Q9KI71	R A Q Q I I E E E T T S S D Y D R E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_I2K740	R S M V E A S T S S D Y D K E E K L Q Q E E R L A K L S G G V V A V A V		
UniRef90_UPI000360EF9C	R L Q Q I I E E E A A S D Y D K E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_Q3A0V2	Q A Q Q I I E E E A T S S D Y D R E E K L Q Q E E R V A K L A G G V V A V A V		
UniRef90_Q8L7B5	K S E I I E E R T D S D W D R E E K L Q Q E E R L A K L A G G V V A V A V		
UniRef90_B3IWT4			
UniRef90_D8IVU9			
UniRef90_E9V0H8			

UniRef90\_A9GB11 1 D G M Q F D R R G G Y L S P Y F V T D S P E K M T A V L T N P L I L V H E K K I S N 40  
UniRef90\_K9SXY1 D E G M Q F D R R G G Y L S P Y F V T D S P E R M I A E F L N N A K I L L I V T D K K K I S N V  
UniRef90\_A8PNY3 E E G M Q F F D R R G G Y L S S P Y F V T N D N Q E K M A C E L D D N P Y I L L L V D D K K K I S S N  
UniRef90\_K9E7P6 E E G M Q F F D R R G G Y L S S Q Y M V T N D N Q E K M A N L D D N P Y I L L L V D D K K K I S S N  
UniRef90\_E3J245 T E E G M Q F F D R R G G Y L S S P Y F V T D D Q E R M E A V L L E D A F V L L H P G K K I S S G A  
UniRef90\_R7LST3 E E G M Q F F D R R G G Y L S S P Y F V T D D Q E R M E A V L L E D A F V L L F C C N K K I S S G L  
UniRef90\_P15599 E E G M N F F D R R G G Y L S S S P Y F S T N P P E T Q E C A V L L E E A L V L I Y D D K K K I S S  
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UniRef90\_UPI0003B5DA46 E E G M Q F F D R R G G Y L S S P Y F V T D D S Q E N G S A V L L E D D A Y I L L I Y D D K K I S S S T  
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UniRef90\_UPI0002ED41A0 E E G M Q F F D R R G G Y L S S P Y F V T D D Q E R M V T E L D K D A R R I L I V D D K K I S S T G  
UniRef90\_C7GY7 E E G M Q F F D R R G G Y L S S A Y M V T D P E K M E T V M E N D P Y I L L I T D D K K K I S S T N  
UniRef90\_F0SFU8 E E G M Q F F D R R G G Y L S S P Y F V N Q P E R M S C E F D D E A L I L L L F E K K K I S S T G  
UniRef90\_X0ZA52 E E G L Q F F D R R G G Y L S S P Y M V T N D A E R M E A V L L E D N P Y I L L L N K K K I S S G  
UniRef90\_C1ECK1 E E G M K F F D R R G G Y L S S P Y F I T N S K T Q K C E L L E N P Y I L L L F E K K K I S S G  
UniRef90\_UPI0004013F0E T E G M Q F F D R R G G Y L S S P Y F I T N D Q D S R Q T V F E N P Y I L L L S D S K K I S S V  
UniRef90\_F4KVVX9 E G M Q F F D R R G G Y L S S P Y F V T N T E D M T A E Y E N P Y I L L L T D D R K K I S S S N  
UniRef90\_I2FKQ9 E G M K F F D R R G G Y L S S P Y F V T D Q K T M K V E L L E N P L I L L I C E K R I S S S G  
UniRef90\_K3W969 E E G M K F F D R R G G Y L S S P Y F V T D N K T Q T C E M E N D A F I L L L V E K K K I S S V  
UniRef90\_G4WV11 E E G M Q F F D R R G G Y L S S P Y F I N T P D K Q I S I L L E D N P Y I L L L S E K K K I S S T  
UniRef90\_X6ENI9 E E G M Q F F D R R G G Y L S S P Y F V T N A E K M V A D L L E D A Y I L L L H E K K K I S S N  
UniRef90\_D6YRK0 E E G M N F F D R R G G Y L S S A Y F M T N P E T Q E C V L L E D V Y I L L L F E K K K I S S T  
UniRef90\_W9EYK1 E E G M E F F D R R G G Y M S Q Y M V T D D Q E K M E A N L D N P Y I L L L T D D K K K I S S N  
UniRef90\_U2EEI8 E E G M Q F F D R R G G Y L S S P Y M V T D S D K M V A E L L E N P Y I L L V T D D S K K I S S N  
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V R E D L L P P V L L E E S N I A M Q E R G N R R S P L L L L I I V A E A D D D I V E E E E A A L P T T L V V N K T L R R G G  
L N D D L L P P V L L E E L V V I Q E R G N R R S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I S D D L L V P V L L E E Q V V A R E S A K S G S Q L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L K D F L P V L L E E Q V V A R E S A K S G S Q L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
M N D L L P P V L L E E K V V A R E S A K S G S Q L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
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I T D I L P L L L L E E K V V I G A G K K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V Q E I L P V L L L E E P I A Q Q G G K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
M K D L V P L L L L E E Q V V I Q M G R K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V K D L L P L L L L E E Q V V A K A G K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L Q S L L P V L L L E E L V V R E Q R K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L A D F L P L L L L E E K V V A Q T K R Q L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
P Q K L I P L L L L E E L I A R S S K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L Q D L L P L L L L E E E V A K A G R K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L A E L L P L L L L E E K V V I G A S K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I E E L L P L L L L E E K V V L Q A G S K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
A R D M L P L L L L E E K V V V G Q G K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L Q E I L P L L L L E E E S L M Q Q A S K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L Q E I L P L L L L E E S L M Q Q A S K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
A K S L V P L L L L E E K T S K A G V P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V A D L L P L L L L E E K V V A R S T S K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q D L I P A L L L E E G V A R S T S R P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L P D F L P L L L E E K V V I E A G K S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L Q P L L P V L L L E E A V V I Q S G R P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V V D L V P V L L L E E A V V S K S G R P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I R D L L P V L L L E E Q V V A K S G R P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
S R A A A S T E R A S A G R P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L P D L L P L L L L E E K V V A E T G K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q E I L P L L L L E E K L V I Q A G G K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V Q D L I P A L L L E E I S T Q R R K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
N K K M I P L L L L E E A I S K A K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q S T L H L L L E E H C V I Q S N S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V N Q I V P V L L L E E K V V A Q E G K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I H E L L P V V L L Q A T A S A G K E P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I R E M L P L L L X A V A K X G X P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q G L V P L L L E E V M K A G R S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V I D L V P V L L L E E A V V K S G S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
A R D M I G I L L E E G A I R G G H P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
A Q S L L P V L L L E E K C A K S A S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V K E L L P L L L L D E V M H K S R P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V Q S I V P A L L L E E I A N A N R K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q S I L P V L L L E E Y V V K L Q R R P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I H D I L P S L L L E E L S N K T R R P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I R E L L P L L L E E S I A K S N K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L P D F L P V L L L E E Q I A K A G K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I A D L L P L L L E E K V I Q A S K P P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V Q E I L P L L L E E K V I Q S N R K S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L P D L L P L L L N K V A M A Q K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L P D I M P A L L L E E I S A T A R R K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q D I L P I L L L E E Q I S K A G K E P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
V A E I M P L L L L E E K V V I Q A K K P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
L K D L L P L L L L E E K V V Q S G S R S P L L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G  
I Q S I I P A L L L E E L A N Q H K R P L L L I I V A E A D D D I V E E E E A A L S T T L V V N K T L R R G G





	130	140	150	160
UniRef90_A9GB11	E S A T V R D M L	G G T A K R R V E I I	D K D N T V V D	G G G E N K V N V
UniRef90_K9SXY1	D T A T T L D M L	G T A K R K R V I I	K K D N T T I V	G G G E N K V N V
UniRef90_A8PNY3	E K T A T T L D M L	G T A K R K R V I I	K K D N T T I V	G G G E N K V N V
UniRef90_K9E7P6	S D A T T L D M L	G G G R I R R R V V	D K D D T T T L	V D G G A G E D P E
UniRef90_E3J245	U N T T T L Q M L	G G K A K K R V T V	S K D E D T T T	V V G G D E T S K A
UniRef90_R7LST3	E N T T T L A M L	G G K A K K R V T V	S K D E D T T T	V V G G D E T S K A
UniRef90_P15599	E N T T T L A M L	G G K A K K R V T V	S K D E D T T T	V V G G D E T S K A
UniRef90_D7GCB6	A E V S L A E D L	G G R A R R R V V V	T K D D T T T V	V E G G A G E A G K
UniRef90_UPI0003B5DA46	E N A T T L X X Q	G G X A A K K V X I	D X D D T T T V	V D G G A G E A G K
UniRef90_Z2EMX2	E K A T L E Q L	G G S A K K R V T V	T K D D T T T V	V V D G G A G E A G K
UniRef90_R5W796	E D V K L E Q M L	G G T A D K K V T I	N K K E N T T T	V V D G G A G E A G K
UniRef90_Q37757	D S I K L D V L	G G K A R K R V N I	T K D D T T T V	V V A E A G N K E A
UniRef90_UPI0002ED41A0	E T A D L S M L	G G J A T K V I T L	T K D D T T T V	V V A E A G N K E A
UniRef90_C7GY7	K D V T L S E Q L	G G T A G T I K A	T K D N T T V I	V N G G G D K Q L I
UniRef90_F0SFU8	E N I D V L H L	G G A R R Q L E K I	T T K D N T C T	I I E G G K G K V D
UniRef90_X0ZA52	E N V K L D M L	G G R A R R Q L E K I	T T K D N T C T	I I E G G K G K V D
UniRef90_C1ECK1	D Q V D I S M L	G G T A K K R V T V	S K D D T T I L	D D G G A G E K A
UniRef90_UPI0004013F0E	K M A D L S E H	G G S A R K R V I V	T K D D A T T I	V I V D G G A G E K A
UniRef90_F4KVX9	E N A G L E H H	G G S A R K R V I V	T K D D A T T I	V I V D G G A G E K A
UniRef90_I2FKQ9	E N V D V R S L	G G S A K K R V I V	T K D D T T I V	L H G A G A K S D I
UniRef90_K3W969	E T T T P D M L	G G S A K K R V I V	T K D D T T I V	L M D D G A G L P E
UniRef90_G4WV11	E K V A L T D Q L	G G R A K K R V E I	S K E E T T T V	V I V D D G A G D A K
UniRef90_X6ENI9	E N V T L A M L	G G R A K K R V S I	S K E E T T T V	V I V D D G A G D A K
UniRef90_D6YRK0	E S T T V E H L	G G K A K K R V V V	T K D E N T T T	V I V E G G Q G Q D S K
UniRef90_W9EKV1	K D T T I N Q L	G G R A A K K V I V	S K D N T T T V	V E G N G S Q K A I
UniRef90_U2EEI8	K E T A I N Q L	G G R A A K K V I V	S K D N T T T V	V E G N G S Q K A I
UniRef90_D1Y2E0	E N V E L S K L	G G R A A K K R I V	T K D E T T T V	V V D D G G S G N A
UniRef90_P37282	K D A T L E A L	G G R A A K K A T R	I T K D H T T T	V V V D G G A G S K D
UniRef90_X6GJN1	E H A S L D M L	G G R T K K V M L	D K A N T T T V	V V G G A G G E R E
UniRef90_UPI0004793A79	R D A T L A H L	G G S A R K Q V K S	N K E T T T I V	V V D D G G Q G A P E
UniRef90_C8W932	N E I T A D M L	G G S A R K S V T V	T K D E T T T I	V V D D G G A G S K D
UniRef90_F2N768	A D I T A D M L	G G T A K S V T V V	T K D D T T T I	V V D D G G A G K K E
UniRef90_D3QA85	D Q V G L D Q L	G G T A R K R V V V	E K D D T T T L	V L D D G G A G E K A
UniRef90_H1A7A5	E T T E L E A L	G G T A R K R V T I	V K D D T T L V	L V D D G G A G A K A
UniRef90_A0A010ZJV5	D S A D V A D L	G H A K K V K V I	T K E D T T I V	E G A G D S A A I
UniRef90_A6C9D5	E S V E L A Q Q L	G G R A K Q V E I	S K D S T A L I	V G G A G K T D A
UniRef90_V9QYB2	E Q V Q L A Q Q L	G G Q A K H R V V	S K D S T A L I	V G G A G T R K A
UniRef90_W5XAL8	E N V T P D M L	G G S C Q R R V V I	T K D D T T T V	V V G G K G D K G G
UniRef90_UPI000237A5AA	S S A G P E V L	G G S A R R R I T V	T K D D T T T V	V V D D G G R G A K A
UniRef90_UPI00037AA744	D S A D I N M L	G G Q A R R R I A T	K E N T T T I V	V V D D G G A G A K A
UniRef90_K9B1P7	D Q V T L D E L	G G N A R R T I T V	T K D D T T T I	V V D D G G A G A D D
UniRef90_D7B7M7	E N V D L D A L	G G A R R V T T I	T K D A T T I V	V D D G A G E Q S E
UniRef90_K0ZAL1	G E A T L D M L	G G T A K T R V K V	I T K D S T V I	V I V D D G A G D K Q
UniRef90_UPI00035CCD95	D G T T V D L L	G G R A R R V I V I	T A D E N T T I	V L V E G G A G D P D
UniRef90_Q05FT9	E N I D L S L L	G G F A K K I T S	T K E N T T I V	V G G G G D E N D
UniRef90_UPI0003B42536	D Q V G L E D L	G G S A G R V V V T	K D L T T V T H	V H G G G K D E N
UniRef90_R7FYG8	K D V T P D M L	G G R A G Q I K V	D K D N T V I I	D G A G D P D A I
UniRef90_S9P1R1	H V G L P D D L	G G R A E R V V V	T Q E E T T I V	V G G A G D K K A
UniRef90_Q565W9	E K M N L S E L	G G K A K R V I V	D K E D T C T L	I V G G A G R T Q D
UniRef90_UPI00016211A5	E K I E L D M L	G G A K K V T V	S K D D T T I L	D D G A G D K A I
UniRef90_W2EQT4	H V G L D V L	G G T A R R V V V	N K D D T T I V	V D D G A G D A Q A
UniRef90_L0DFD0	E S V G L T D L	G G R A R K I T I	D S E N T T T V	V V E G G V G T Q E
UniRef90_C1DIS7	A D T T L A Q L	G G R I Q R V V V	D K E T T T I V	V G G A G D S A A
UniRef90_UPI000255EAA1	E S V G L E V L	G G T A R R V V A	T K D D T T T V	V E G S G D A Q A
UniRef90_UPI0003699939	D A V G L E V L	G G Q A R R V V V	T K D D T T T V	V V E G A G Q A S E
UniRef90_UPI00016C36B2	E T V T M E D L	G G T A K K I K V	D K D N T T T V	V I V E G A G T A A A
UniRef90_C7REA8	K D T A M D M L	G G S A K K V K V	D K D N T T I V	V E G K G D K A N
UniRef90_R6RA69	K D T T I E Q L	G G R A R Q I K V	V Q K E N T T I	V V D D G M G D K Q
UniRef90_UPI00029AB4AC	E N V E L S D L	G G V A K K I R I	D A E N T T V V	V Q G A G K A E I
UniRef90_R4Z309	E S V E L G L L	G G R A E K V V V	T K D E T T T I	V V S G A G S A E
UniRef90_K9RPI9	D Q V E V G M L	G G Q A R K V T V	T K D T T T I V	V S S G G T E A A
UniRef90_D0L7W9	S T V G L E V L	G G S A R R V V V	T K D A T T I V	V E G A G T K E A
UniRef90_G8ASC9	E N I T L D V L	G G R A R R V R V	D R E S T T T V	V D G A G R K E E
UniRef90_K9PB00	K A T L A D L	G G H A H R R T I	S K D T T T I V	V A A D N Q R A A
UniRef90_E6PVE5	E K V T L A D L	G G N A K R V E A	A K E N T T T V	I D G A G V A A D
UniRef90_P48216	E T A T L E H L	G G N A K R V I L	S K E N T T I V	I D G A G A D T E
UniRef90_A0A022LNU8	S D C G L E V L	G G H A R R V T V	S K D E T T I V	D D G D G D A D V
UniRef90_R5JKQ0	K E V D L S M L	G G R A Q T V K V	N K E T T T I V	V A G G E G S K L
UniRef90_U4LL01	D K L T P D M L	G G S T G A V S I	T K E D T T I V	V N G G D G H K
UniRef90_Q7UM99	E S V K V S D L	G G R A K Q I R I	T S E A T T I V	V L V G A G K K A
UniRef90_Q3LDT0	E K T D P S V M	G G T A K Q V I I	T K D D T T I M	N G G A G K K A D
UniRef90_D5E9S6	E D V T D D M L	G G S A H K V S V	D K Q K T T I T	H E G K G D K N A
UniRef90_F8KY79	K E I P A S A L	G G S A E K I I V	S K E N T T V I	H H G S G S Q E D
UniRef90_I6QYY4	X K T T M E B M	G G Q A K R I I V	T K D A T T I I	D G X G D K I H
UniRef90_G1Y006	D S V T L A M L	G G R A R R V I V	T K E S T T I V	I D G A G A E A A
UniRef90_Q3AUZ9	D K V T L E D L	G G H A R R V T I	S K E S T T I V	V A N D N H S A
UniRef90_E1ZRQ6	D K A D D S I L	G G L A A K V S V	S K E H I T I V	V G D G S T Q A S
UniRef90_P94820	E D V R I E D L	G G R A A D T I V	E K D N T T T V	V D G G P A R S S
UniRef90_D81Z5	E A A G L P V L	G G R A R R V V V	T K D D T T T V	V D N G G G E R A
UniRef90_UPI000194E849	E D I Q P H D F	G G K V G E V I V	T K D D T M L L	L K G K G E K T Q
UniRef90_C5KZ22	S D D F P A L L	G G S C K S V S	V K K D D T T I	V L D D G G A R E E
UniRef90_A0A024JKM0	E N A T Q D L L	G G S S G S I T I	T K E D T T I V	L N G E G S R E N
UniRef90_M4I7B0	E K S S L E D L	G G Q S K K V I V	N K E T T T I V	D G S G N K E D I
UniRef90_X5E765	S E T T L E Q L	G G T A R R I T V	T K D E T T I V	V D D G A G T A E
UniRef90_Q33659	D Q V G L E V L	G G T A R R I T V	T K D D T T I V	V D D G P G K R D
UniRef90_R5ZH88	K D M T L N E L	G G N V K R L T V	T K D N T T M I	G G A G N K E A V
UniRef90_I0IFV5	D S L E L D Q L	G G T A R K V T V	S K E H I T I V	I E G D G K K A D
UniRef90_R9AF14	E K A T V D M L	G G S C G S T S I	T K E D T T I V	N G D G Q K G E V
UniRef90_R7R3A6	K D T S M E M L	G G R A K S V K V	T K D S T T I V	V D G G E G K S E
UniRef90_E3H5L5	E Q A T L S E E T	G G S A R R V T V	T K N D T T T V	V D D G G S K E A
UniRef90_W2BP73	E T A D L S L L	G G T A K S V T V	T K D A T T I V	V D D G A G D K Q
UniRef90_H2B651	E D I Q L H D F	G G R V G E V T L	T K D D T L F L	K G K G E Q K D I

		170	180	190
UniRef90_A9GB11	R	K	Q	I
UniRef90_K9SXY1	R	K	E	L
UniRef90_A8PNY3	D	A	Q	K
UniRef90_K9E7P6	R	K	Q	A
UniRef90_E3J245	R	A	E	T
UniRef90_R7LST3	K	N	Q	I
UniRef90_P15599	K	K	Q	I
UniRef90_D7GCB6	H	A	E	I
UniRef90_UPI0003B5DA46	R	Q	Q	I
UniRef90_Z2EMX2	E	K	Q	I
UniRef90_R5W796	R	K	Q	I
UniRef90_Q37757	R	R	Q	I
UniRef90_UPI0002ED41A0	R	Q	E	L
UniRef90_C7GY77	R	K	T	I
UniRef90_F0SFU8	R	S	H	I
UniRef90_X0ZA52	K	A	E	I
UniRef90_C1ECK1	R	D	A	L
UniRef90_UPI0004013F0E	R	K	Q	A
UniRef90_F4KVBX9	K	Q	Q	I
UniRef90_I2FKQ9	R	A	A	M
UniRef90_K3W969	R	A	S	I
UniRef90_G4WV11	R	K	Q	I
UniRef90_X6ENI9	K	Q	Q	I
UniRef90_D6YRK0	K	R	Q	I
UniRef90_W9EKV1	K	N	Q	I
UniRef90_U2EEI8	R	M	Q	I
UniRef90_D1Y2E0	R	T	E	I
UniRef90_P37282	K	A	Q	I
UniRef90_X6GJN1	K	L	E	L
UniRef90_UPI0004793A79	R	N	E	F
UniRef90_C8W932	K	A	E	I
UniRef90_F2N768	K	G	E	L
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UniRef90_K9B1P7	R	S	E	I
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UniRef90_K0ZAL1	R	A	E	L
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UniRef90_Q05FT9	K	K	Q	I
UniRef90_UPI0003B42536	K	Q	S	E
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UniRef90_S9P1R1	R	Q	Q	K
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UniRef90_L0DFD0	R	R	E	I
UniRef90_C1DIS7	R	A	Q	L
UniRef90_UPI000255EAA1	Q	A	E	S
UniRef90_UPI0003699939	R	K	E	I
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UniRef90_R6RA69	K	S	Q	I
UniRef90_UPI00029AB4AC	R	A	E	I
UniRef90_R4Z309	Q	A	E	I
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UniRef90_D0L7W9	R	R	E	I
UniRef90_G8ASC9	R	T	Q	I
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UniRef90_E6PVE5	R	Q	I	L
UniRef90_P48216	R	A	Q	L
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UniRef90_M4I7B0	R	Q	Q	V
UniRef90_X5E765	R	S	D	I
UniRef90_Q33659	K	A	E	I
UniRef90_R5ZH88	Q	A	Q	V
UniRef90_I0IFV5	K	Q	Q	L
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UniRef90_R7R3A6	K	A	Q	A
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V Q S T I P A L L E E Y A N T K R K K P P L L V I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
I R D I L V P L L L E K V A Q K A S G K K S P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
I R E L L P A L L E A V A K A A S G K K S P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
L Q V L V P L L L E E V A K A A S K R P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
L H S L V P L L L E K V V Q V Q S T G K P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
M K G L L P L L L E K I A Q T S G K P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
L S D L L P L L L E K V A E E K K K P P L L L I I A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
M K D M V P L L L E K V A K T G S K P P L L L V V A A E D D V D G E E A L L S A M T L V I N K K L R R G G  
I R E F V P L L L E Q I V Q S K R K P P F F I I A A E D D I D G E E A L L S A M T L V I N K K L R R G G  
L P D F V P V L L E K I V E S K R K P P L L L I I A A E D D I D G E E A L L S A M T L V I N K K L R R G G  
Q R E L M P I L L E Q V A K T G R S P L L L I I A A E D D I D G E E A L L S A M T L V I N K K L R R G G  
M K D V L P I L L E Q V A R A G K S P L L L I I S E E D V D G E E A L L S A M T L V I N K K L R R G G  
V K S I L P V L L E F L V Q N Q G S P L L L I I A A E D D I D S D N E A L L S A M T L V I N K K L R R G G  
V K D L V P L L L E A A A K A G T P L L L V I A A E D D I D D G E E A L L S A M T L V I N K K L R R G G  
L Q S M L P L L L E Q V V K L Q K P P L L V I I A A E D D I D D G E E A L L S A M T L V I N K K L R R G G  
V Q S I V P A L L E L A N A Q R K P P L L V I I A A E D D V D D G E E A L L S A M T L V I N K K L R R G G  
A A D L V P F L L E K F V A Q V S K N P L L L I I A A E D E V D G E E A L L S A M T L V I N K K L R R G G  
I R E M I T V L L E E V A K A G S R P P L L L I I A A E D D V E G E E A L L S A M T L V I N N M R R G G  
L P P I L S L L L E E V V A Q S G S P P L L L I I A A D D D V E G E D A L L S A M T L G L V I F E N K R R G G  
I R D I L P L L L E K V A R S K A R P P L L L I I A A D D D V E G E S E A L L S A M T L V I N K K L R R G G  
I H T I L P V L L N H V V R S G R R P P L L L I I A A D D D V E S E S E A L L S A M T M I F N K K L R R G G  
M T S L V K I L L E L A I N K N R P P L L L I V A A E D D F E A E V R A L L S A M L I L N K K H H A G G  
L S Q I L P L L L E K V V E A D K P P L L L I I A A E D D F E A E V R A L L S A M L I L N K K L R R G G  
I Q T L L P A L L E L C H Q Q K R P P L L L I I A A E D D V E G E E A L L S A M T L V I N K K L R R G G  
L V D L L P I L L E E I Q K K S G S P P F L L I I A A E D D I E G E E A L L S T T L V I N K K M R R G G  
L V N E I L P I L L E Q C V K D K E P P L L L I I A A D D D V T T G E E A L L S T L V I N K K M R R G G  
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K Q D L L P L L L E Q V T P T K R R A L L L I I A A D D D I E E K E A L L S A M T L V I N K K L R R G G  
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I G E V L P V L L E K V V Q T G K P P M L L I I A A E E V D G G E A L L S A M T L V I N K K L R R G G  
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Q E I T K L E D D M L G G Q A Q K K V T V S T L D D T T T L L V D G G G G D K K Q Q I I E E R R L A Q Q Q L  
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I R E M L P V L L E E A V A K A G G K P L L I I A E E D F E E T D A L A T L Q T L V V N N S M R R
A Q A M L P L L L E H F V R T K E P L L V I I A E E D D T S D T D E A L S T V L N N W L T R G G
V Q S I V P A L L E T A N A Y H K E P L L V I I T A E E D T S D T D E A L S T V L N N W L T R G G
L K Y I M P A L L E H C A Q N N R R P L L L V A A D D T Y D T D E V L T T A L L I L N N R L R G G
S Q S V V P L L L E L C L A Q R N R R P L L V V A S D D T I D G D A L S T T L L V L N N R L R G G
R D L L P V L L E Q V A K A G R K P L L I V A E E D V D G E A L A T T L L V V N N R L R G G
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M R G G
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jnet



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