

QUERY	1	10	20	30	40
UniRef90_I1FMD4	N E R N I S R	L W R A F R T	V K E M V K D	R G Y F	T Q E E
UniRef90_W4XG90	N E E V T Y R	L W R I R K T	V M Q M C H	D R R Y L	V T Q D E
UniRef90_Q9N5K2	D E A E T Y R	L W R V R R T	I M Q L C H	R G Y L	V T Q D E
UniRef90_T2MG83	D E A E V Y K	M W K I R K T	V M Q M C H	D R R Y L	V T Q D E
UniRef90_A0A024NS99	D E L E T Y K	L W R V R K T	V M Q M C H	D R G Y L	V T Q D E
UniRef90_W6MQ93	D R E V S R	L W R A Y R T	I K E M V R	D R G Y F	T Q E E
UniRef90_C4R3P8	N N R I I S R	L W R S F R T	V K E M A A	D R G Y F	S Q E E
UniRef90_W1QBJ0	E R T T S R	L W R A Y R T	V K E M V R	D R G Y Y	T Q E E
UniRef90_G8YL20	N D R T V S R	L W R T F K T	V K E M V R	D R G Y Y	T Q E E
UniRef90UPI0003593B88	D Q H E T Y K	L W R I R K T	V M Q L C H	D R G Y L	V T Q D E
UniRef90_K0KNP6	N D R I V S R	L W R A F R T	V K E M A M L	D R G Y F	A T E E
UniRef90UPI0002B48F6	S E E E I T R	L F R I R K T	V F Q M L	R D R G Y F	G D F E
UniRef90_B9RKM1	S E D E I L K	R L F R I R R T	V M Q M L	K D R T Y L	V T D S E
UniRef90_A0A024JFC9	D R I A S K L	W R V Y R T	T K E L V	R D R G Y L	I T Q K E
UniRef90_A0A022QBS1	S E E E I S R	L Y R V R K T	V M Q M L	S D R G Y L	V T D S E
UniRef90_A0A059CNE5	S E E E I T R	L H R I Q R T	V L Q M L	D R G Y L	V T D S E
UniRef90_V5I429	S E E R E M T R	L W R T W R T	V F E M L	A D R G Y E	V T E E
UniRef90UPI0002B484EF	S E E E I T K	L F R A R K T	V L Q M L	R D R G F	V V G D F E
UniRef90_I3SCP2	S E E E I T K	L H R I R K T	V M Q M L	R D R G Y M	V S Q E E
UniRef90UPI0002C30BD5	S E E E E I T R	L Y R V R T	V M Q M L	K D G E Y L	V T D S E
UniRef90_B5E0K0	D E E E E L Y K	M W R I R K T	V L Q M C H	D R G Y L	V T Q D E
UniRef90_A9RKG6	D E Q C A R	L Y R I R K T	V M E M L	R D R D Y V	A E F E
UniRef90_O81098	E E E E L K R	L Y R I Q K T	L M Q M L	R D R G Y F	A D S E
UniRef90_T1FN65	D E A E L R K	L W R I R K T	V L Q M C H	R D R M Y L	V T Q S E
UniRef90_B3S3Q9	D E E E A Y K	L W R I R K T	V M Q M C H	D R G Y M	V S Q E E
UniRef90_A6R8U3	D R E M T R	L W R T W R T	V F E M L	A D R G Y E	V T E E
UniRef90UPI0002C305D8	E E E I M R	L Y R V R K T	V M Q M L	K D R D Y L	I V D H
UniRef90_S8CGY5	S E E E Q I T R	L Y R I R K T	L M Q M L	K D R G Y I	V G D F E
UniRef90_M1BRS4	S E E E L S R	L F R V R K T	L M E M L	S D R G Y L	V G D F E
UniRef90_U5DFX7	D D Q T S K	L F R I R R T	L M Q M L	R D R G Y L	V G D F E
UniRef90_G1PY18	D E E E T Y R	L W K I R K T	V M Q L C H	D R S Y S L	V T Q D E
UniRef90_H2RIF8	G K E E M Y R	L W K I R K T	V M Q L C H	D R G Y L	V T D E
UniRef90_G1XMD0	D A R E V S R	L Y R A W R T	A H E M I	A D R G Y D	L T E E
UniRef90_B3TLL2	S E D D D I S R	L F R I R R T	V M Q M L	R D R G Y L	V L L D
UniRef90_D8S8M8	D D D S T R	L Y R I R R T	V I M Q M L	R D R D Y L	V A D Y E
UniRef90_E4WUR7	D D D L C F K	L W R I R K T	V I M A M C H	R D R K Y L	V A Q R E
UniRef90_I1PMG3	S E E E T S R	L F R I R R T	V M Q M L	R D R G Y L	V T E L D
UniRef90_K2S2U2	S E R E A S R	L W R A W R T	A H E M I	A D R G Y I	M S E S E
UniRef90_G7K3X8	S E D E I S K	L Y R I R K T	V M E M L	R D R N Y L	V G D F E
UniRef90UPI0002B43DAA	E E E I L T	L F R V R K T	V L Q M L	K D R G Y F	V G D F E
UniRef90_Q01A87	R L L F R V R K T	I H K M L	A A R G Y L	V S A R E	E L E R D A D S F A E
UniRef90_S8AU45	S R E M S R	L W R T W K T	V H E M L	A D R G Y E	V S E E E
UniRef90_A8J805	D N L T R	L W R V R R T	C L Q M L	N D R G Y L	V L S Q E E
UniRef90_M0S433	G D E T I L G	R F R I R R T	V M Q M L	R D R G Y L	V V D F E
UniRef90UPI00033143E3	N D L E T Y K	L W R I R K T	A L Q M C H	D R G Y L	V T Q N E
UniRef90_Q6CA26	S S D D A Q K	L W K V Y R T	A K E L V	K D R G Y T	T T D K E
UniRef90_B6HAGO	S E R E M T R	L W R T F R T	V Y E L L	A D R G Y E	V S D N E E
UniRef90_G7K3Y0	S E D E I S K	L Y R I R K K	V M E M L	R D R N Y L	V G D F E
UniRef90_G7K3Y0	S E D E I S K	L Y R I R K K	V M E M L	R D R N Y L	V G D F E
UniRef90UPI0003503824	D E E E T Y R	L W K I R K T	I M Q V C H	D R G Y L	V T Q D E
UniRef90_M2LNC3	S R E Q S R	L W R I R T	A T K Q M C Y	D R G Y E	T E D E
UniRef90_B5DLP1	D E A E V Y K	L W H I R K T	I F E M S H	D R G Y L	V T S A E
UniRef90_R7YPT7	D E R A E L K	L W R V W R T	T R Q M C R D	R G Y E I	M S N E
UniRef90_M2ZQT1	N S R E L S R	L W R V L R T	T K Q M C S D	R G Y E L	T D E E
UniRef90_I2JSM8	M V I K D R G Y Y	I P Q E E	I D L P	D Q F R E	
UniRef90_E5S019	D D R E I F R	L W K I R Q N A F	M C R D	R G Y F L	D Q N F E D F V
UniRef90_Q5BFC8	E R E T I L R	V W R T W R T	V F E M L	M Q L D	D E F F K R
UniRef90_A9NTD1	D E Q T N K	L F R I R R T	V L Q M L	N D R D Y L	V G D F E
UniRef90_D5GNK6	E R E S S R	L W R A W R T	V H E M A K	D R G Y E I	S E E E E
UniRef90_B2AZ24	D K E V S R	L W R A W R T	I H E M V	A D R G Y E L	A E D E E
UniRef90_N1JGK4	S E R E A A K	L W R A W R T	V H E M V Q D	R G Y E L	V K I S F D D F K H
UniRef90_S7MUA3	D E E E T Y R	L W K I R K T	I M Q L C H	D R G Y L	V T Q D E
UniRef90_S7MUA3	D E E E T Y R	L W K I R K T	I M Q L C H	D R G Y L	V T Q D E
UniRef90_U7PLI2	Q R E I R K	L W R A W R T	V H E M V Q D	R G Y E L	V K I S F D D F K H
UniRef90_C4JYC4	D E E E T Y R	L W K I R K T	V H E M V Q D	R G Y E L	V K I S F D D F K H
UniRef90_W5AP01	E G E A S R	L F R V R R T	V M Q M L	R D R G Y L	V L D A D
UniRef90_B4FGM1	D D E I S R	L F R I R R T	V Y E M L	R D R G Y G	V R D E Q
UniRef90_N1PMF9	D S R E L S R	L W R V L R T	T K Q M C A D	R G Y E L	T E C N I S L D D F R Q
UniRef90_K3XM22	S E G E T T N	L W R I R R T	L M Q M L	L D R G Y M	I G L K R E A F I
UniRef90_K1WMP9	S D R E I A R	L W R V S K T	V H E M I	R D R G Y E	V A D Y E
UniRef90_A8NU15	D G D E T A R	L W K V S K T	I H E L V	K D R G F S	V S D E E
UniRef90_W5AX19	D E G E T S R	L F R V R R T	V M Q M L	R D R G Y L	V L D A D
UniRef90UPI00045613FA	D D R E T A R	L W R V N K T	I H E L V	R D R G Y Q	V A D D E
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UniRef90_D8Q421	D D E V P R	L W K V N R T	I H E L V	K D R G F Q	V A D Y E I
UniRef90_L8FV35	D R E V A R	L W R A W R T	V H Q M V	N D R G Y E I	I N L S L D D F K S H
UniRef90_I0YX15	D N M T R	L Y R I R K T	C L E M H	D R G Y L	I A Q D D R Q M T K E G F K D
UniRef90_G4TC56	V I S R	L W K V N R T	I H E L V	R D R G Y A	V A D D E I N M T L D E F F K Q
UniRef90_F2E5L0	E G E T S R	L F R V R R T	V M Q M L	R D R G Y L	V V D A D V D M T M G E F V
UniRef90_C1MXV4	S S E K V T K	L F R I R R T	V H K M L	N A R G Y L	V Q Q K E D F Q R E
UniRef90_A0A059LGT8	D N D L S R	L W R I R R T	C L E L L	R D R N Y L	I S Q D D F D M S L D Q F R E
UniRef90UPI000444A7B4	D D S E A A T	L W K V N R T	I H E L V	K D R G Y Q	V A D D E I H M D L T T F K S E
UniRef90_S8DJZ5	Q Q Q I A R	L Y R I R K T	T M M E I I L	K D R G Y Q	V A D D E I E M T K P Q F D E
UniRef90_A0A059CRG2	D E E I T R	L F R V R R T	V L Q M L	K D R G Y A	V E K S E E I E I T R K D F V Q
UniRef90_D0NFB7	E A S R	L Y R I R K T	T V K M L	H N R S Y I	V S E N E E I V M T P E A F Q T
UniRef90_F4P226	D R E V S R	L W R V Y R T	I H E M V	S H R G Y L	V S K A E E I E M S L D D F R Y
UniRef90_S2JYU7	N N N E A T R	L W R V F R T	A H Q M V	H D R G Y L	V S Q S E E I L D M D L D S F K R
UniRef90_H2KS42	D D S E T Y K	L W R I R K T	I L K M C H	K D R G Y L	V M P K E L E Q T L D D F K L
UniRef90_F8MIY3	S K E V S R	L W R A W R T	V H E M V	D R G Y E L	V S E D E I V K I S L E R F K A
UniRef90_I1INU4	G D P E S H	R F L A R R T	A L E M M L	R D R R Y A V	P C E A D I A R T L P E F F R A
UniRef90_Q2QXY2	E S H R	F L A R R T	A M E M L	R D R G Y S V	P E A E I I A R T L P E F F R A

QUERY
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UniRef90_W4XGX0
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UniRef90_V5I429
UniRef90UPI0002B484EF
UniRef90_I3SCP2
UniRef90UPI0002C30BD5
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UniRef90_I1PMG3
UniRef90_K2S2U2
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UniRef90_B2AZ24
UniRef90_N1JGK4
UniRef90_S7MUA3
UniRef90_S7MUA3
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UniRef90_A8NU15
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UniRef90_AOA059CRG2
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UniRef90_H2KS42
UniRef90_F8MIY3
UniRef90_I1INU4
UniRef90_Q2QXY2

QUERY	90	100	110	120
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UniRef90_W4XGX0	D P K V G L K T I K Q Y C G R M Q E E N I S R A I	I V V Q Q G M T P S A K Q A V		
UniRef90_Q9N5K2	E K K V G M K T I K A Y C Q R M Q E E N I S R A I	I T V Q E K M T P S A K T S L		
UniRef90_T2MG83	D A K I G I K T I K A I C Q R M Q E E N I S R A I	I T V Q E K M T P S A K Q S I		
UniRef90_A0A024NS99	E E K V G I K T I K Q Y C T R M Q E E G I N R A I	I I V V Q T G M T P S A K Q A V		
UniRef90_W6MQ93	D S K I G I K T I K A I C Q R M Q E E Q A I T R A I	I I V V Q T G M T P S A K Q A I		
UniRef90_C4R3P8	E P S V G I K T M R N F C L R I Q E K N F S T G I	F I Y Q N N □ T P S A N K M I		
UniRef90_W1QBJ0	E P S V G I T T M K N F C Q H I A D K N F A T G I	F I Y Q Q N M T P S A T K A I		
UniRef90_G8YL20	E A S V G I K T M R N F C L H I S E K N F S T G I	F I Y Q A S I □ T P S A T K L I		
UniRef90UPI0003593B88	E S K V G I K T I K T Y C Q R M Q E E N I M R A I	I I V V Q M G M T P S A K Q A L		
UniRef90_K0KNP6	E A S V G I K T M K N F V I H I S E K N F S V G I	F I Y Q N G □ T P S A N K L I		
UniRef90UPI0002B488F6	E A K V G I K P L K T Y T T R M K S E N V F R A I	L V V Q Q N L T P F A R A C M		
UniRef90_B9RKM1	E Q K V G V K T M K T Y T N R M K S E N V F R A I	L V V Q Q S L T P F A R T C I		
UniRef90_A0A024JFC9	E E N V G V K T M D A L C L H V L E K N F Q T A I	F I V Y Q N N L T S G A A K R I		
UniRef90_A0A022QBS1	D P K V G V K P I T I S T K R M A D E G V R R A I	L V V Q Q G L T P F A K N C I		
UniRef90_A0A059CNE5	E A K V G V K T M K T Y T T R M N S E N V F R A I	L A V Q Q N L T P F A R T C I		
UniRef90_V5I429	D A A V G T K Q I R N F N H F V D E N N F H T G I	F I S Q T P I S P S A V R L L		
UniRef90UPI0002B484EF	E P K V S V K T V R T Y I N R M K S D N V F R A I	L V V Q E K L I S S F A R S S I		
UniRef90_I3SCP2	E P K V G V K V T M K T Y T N R M K S D N V F R A I	L V C □ T P P F A K T C I		
UniRef90UPI0002C30BD5	E A K V G V N T M R D Y T K R M Q S Q S N V F R A I	S V S Q T K L T P P F A T R C I		
UniRef90_B5E0K0	E P K V G I K D I K R Y C L R M Q E E S I Y R A I	I I V V Q N S I T P S A R Q A L		
UniRef90_A9RKG6	E A K V G V K T I K T Y V D R M K T T E N V H R A I	L V V Q Q N L T P F A R Q C V		
UniRef90_O81098	E A K V G V K T M K M Y T N R M K S E N V F R A I	L V V Q Q N L T P F A R T C I		
UniRef90_T1FN65	E P K V G I K T I K T Y C Q K M Q E E S I S R A I	I I V V Q Q G M T P S A K Q S I		
UniRef90_B3S3Q9	E P K V G I N T I K K Y C Q R M Q R E N I N R A I	I I I Q S G M T P T A K Q S I		
UniRef90_A6R8U3	D Q S V G T K Q I R A F N H F I D E Q N Y H T G I	F V S Q T P I S P S A M R V L		
UniRef90UPI0002C305D8	E P K V G V K T M K T Y I T R M N Q E N V I R A I	L V A Q Q N L T P F A K T S I		
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UniRef90_U5DFX7	E Q K V G V K T V K T Y T E R M K S E N V F R A I	L L V L Q Q N L T P F A R Q C V		
UniRef90_1GPY18	E P K V G I K T I K V Y C Q R M Q E E N I T R A L I	M V W Q Q G M T P S A K Q S V		
UniRef90_H2RIF8	E P K V G I K T L N V V Y C R R M Q Q E N I T R V L I	M V W Q Q G M T P S A K C L		
UniRef90_G1XMD0	E P S I G I K Q M R V F A H T I V E H N F H T G V	F I T M A P L T S S A A K I		
UniRef90_B3TLL2	D A K V G V K Q I K Q Y V E R M K A E N V T R G I L	L V V Q Q A L T P F A R Q S I		
UniRef90_D8S8M8	E P K V G V K T I K T Y A E R M K S E N V F R A I	L V V Q Q A L T P F A K Q C L		
UniRef90_E4WUR7	D A K P G V K T I R S Y V E R M K Q E S I V F N G I	L V V Q Q A L T P S A K Q A L		
UniRef90_I1PMG3	D Q N I I G V V K Q L R N F G H T L N E H N F S S G I	F I T A V P V T G A A Q K I		
UniRef90_K2S2U2	D E K V G V H T F R T C T K R M N S E N V Y R A I	I I V C Q T S L T N M A L S E I		
UniRef90_G7K3X8	D E K V G V I K L V E T Y V G R M K S E N V F R A I	F V V Q L N L T P F A R N K I		
UniRef90UPI0002B43DAA	E P K V G I K T I K M Y C Q R M Q E E N I T R A L I	I I V V Q Q G M T P S A K Q S I		
UniRef90_Q01A87	D P N I G I K H L K T F A Q L L S E C K N L H T G I	Y V S Q A P T A S A L K I		
UniRef90_S8AU45	E E K V G V K T I K D L A K R M K E E N V F R A I	L V V Q Q A L T P F A K Q S I		
UniRef90_A8J805	E S S L G A K Q V R T F N H F V A E N N F H T G I	F I T T Q V P L S P T A V R M L		
UniRef90_M0S433	E Q K V G V K T I K L L A E R M K D E K V N R A I	M V T P S K F T P P F A K S A L		
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UniRef90_Q6CA26	E K K I G I K T L K S Y C L K L Q G E G M T K A I	I V G Q E M M M T P S A K Q A L		
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UniRef90_G7K3Y0	D S S V G T K Q V R A F N H L V D E N N F H T G I	F I T Q T P I S P S A V R L L		
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UniRef90_B2AZ24	E K S I I G I S V M K K F V E H C A N N S Y K A G I	L V T A V A L S A Q A R K V M		
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UniRef90_S7MUA3	H E G A P I S E M			
UniRef90_U7PLI2	E P Q I G V K E I K R F V Q H C D E H S F R A G I	M V T Q G A L S A Q A R K V I		
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UniRef90_B4FGM1	E A K P G V K T I R N Y V E K M K N E N V F A G I	L V V Q Q A L S A F A R S A V		
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UniRef90_Q2QXY2	P E P V K I A T I R E I Y L Q T K E E N L S R L V L I	L Q S K I L S R A R E A I		

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QUERY	P S I P P A T I E T F N E A A L V V N
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UniRef90_T2MG83	D M A P K Y I L E Q F L E A E L L I N
UniRef90_A0A024NS99	D M A P K Y T L E Q F L E A E L M V N
UniRef90_W6MQ93	I A A E P A T V E L F Q E S D I V V N
UniRef90_C4R3P8	P T V S P A I I E T F Q E S D L V V N
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UniRef90_O81098	S E I S K F H L E V F Q E A E M L V N
UniRef90_T1FN65	D M A P R Y I L E M F L E S E L L I V N
UniRef90_B3S3Q9	D M A P K Y T L E S F M E S E L M I N
UniRef90_A6R8U3	N S I P G R F C E H F Q E Q E L L L V N
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UniRef90_M1BRS4	S E I S K F H L E V F F Q E A E M L V N
UniRef90_U5DFX7	Q E I S K F H L E I F Q E S E L L L V N
UniRef90_G1PY18	D M A P K Y I L E Q F L Q K E L L I V N
UniRef90_H2RIF8	D M A P K Y I L E Q F L Q Q K L L I V N
UniRef90_G1XMD0	P T V A P S V I E C F L E Q D L L V N
UniRef90_B3TLL2	A E V S K Y M L E V F F Q D T E L L L V N
UniRef90_D8S8M8	S E M P K Y Q I E V F F Q E A E L L V N
UniRef90_E4WUR7	D D M P K Y T L E S F Y E E Q E L M I N
UniRef90_I1PMG3	Q E V S K F H L E V F F Q E A E L L L V N
UniRef90_K2S2U2	P S L H P L I M E I F M E Q D L L V N
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UniRef90_A8J805	E D M P K Y H I E H F L E S E L L L V N
UniRef90_M0S433	Q E L P K Y H L E V F F Q E A E L L V N
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UniRef90_B6HAGO	S G V P G R I C E H F Q E Q D L L V N
UniRef90_G7K3Y0	E I A S K F H L E V F F
UniRef90_G7K3Y0	E I A S K F H L E V F F
UniRef90UPI0003503824	D M A P K Y I L E Q F L Q Q E L L I V N
UniRef90_M2LNC3	P T I A P L V M E I F R E E D L L V N
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UniRef90_R7YPT7	P T V L P A I L E V F F K E D D L L V N
UniRef90_M2ZQT1	P S V H P L I M E I F K E D D L L V N
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UniRef90_E5S019	A D L P K Y K L E Q F L E A E L M V N
UniRef90_Q5BFC8	S G I P G R I C E H F Q E Q D L L V N
UniRef90_A9NTD1	Q E F S K F H L E V F F Q E A E L L V N
UniRef90_D5GNK6	P T V L P S V I E V F F L E S D L L V N
UniRef90_B2AZ24	T V T S Q Y T I E C F L E E D L L V N
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UniRef90_W5AP01	Q E K E K L M L E V F F Q E E G E L L L I N
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UniRef90_A8NU15	S A M A S Y R L E E F A E E A D L L V N
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UniRef90_L8FV35	P A V A S E T I E C F L E Q D L L V N
UniRef90_I0YX15	A E M P K Y Y I E V F N A A E L L I V N
UniRef90_G4TC56	T G M P Q Y Q L E E F A E T E L L L V N
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UniRef90_S8DJZ5	T E T S V F R L E V F F Q E A E L M F N
UniRef90_A0A059CRG2	T E I A C F R M E V F F E E A E L L V N
UniRef90_D0NFB7	N E M P R Y K I E H F K E T E L L V D
UniRef90_F4P226	Q E M P K Y Q L E E L F Q E S E L L L V N
UniRef90_S2JYU7	Q S L P K H T L E S F Q E E N E L L V N
UniRef90_H2KS42	A E L S K Y T L E C F F F E T E L M V N
UniRef90_F8MIY3	S V T S Q Y T V E E C F L E E D L L V N
UniRef90_I1INU4	K E I F K Y K V D V F Q I A E L L V N
UniRef90_Q2QXY2	K E I F K F K V D I F Q A T D L L V N

1 10 20 30 40

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

50 60 70 80

UniRef90_M1VLA1	K F D A A G R A R E S L T M L R Q H R N D R S N	Q I Y V F F P K
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UniRef90_M7NQ44	Q Y C T I N G V D R S T L S F Y A R S P P G S N K E Q I	Y V A F Q R
UniRef90_V2YKU5	T Y A N S M G V V D R N Q L N F Y T H S Q T D S S D	F V F F S D
UniRef90_B6JZQ6	M H C G M G R N L D R S T L S F Y A K P P P G S D K G T I	Y V E F A K
UniRef90_R7S0D8	A Y A N N G G S V D R N Q L N F F T N S R A N P A D Q I	F V F F S E
UniRef90_H1W093	E Y T A A D G S V N R G K L Q F S A N P S A D M I R K Y P D C G T L	W V E F L A
UniRef90_F9XDH6	L Y A D E S G V P Q R T K M A F T A R P S A A M I K K Y T E I G N I H V E F S N	H V E F S N
UniRef90_M1CLJ4	K Y G V H M K R Q D L E I L K A K R N N D E K K I	Y V F F P E
UniRef90_K1X422	T Y T L A D G S I N R K G M Q F S A R P S D K M M K Q Y S D I G T V	W V E F L N
UniRef90_C4Y929	K I C P M G E A Q R K L M C F Q A Q P T P E A A E K F P E M G S L W V E F C D	C D
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UniRef90_F9FE35	E Y C N P D G S I N R A K L Q F S A R P S E N M I R K N T D C G P V	W V E F L A
UniRef90_I1IZ24	R Y G D P V R R E D L V I N R V K K D N P N E Q I	Y V F F P S
UniRef90_UP1000455D33C	H Y A N N G G S V D R N Q L N F F T N S Q E N P T E Q I	F I Y F S D
UniRef90_K3ZJP0	W W A E K P E L E R L A F S T A L A A D Q S S K V K V V F C P	V K V V F C P
UniRef90_C1EDR8	E F G E D P R R D A L T L Q F D L R E D P T Q H I F V F F P D	I F V F F P D
UniRef90_E5ACT1	K F G R E D G E P D R S R L L N F S C L P S E E M L A K Y P Q I G S I	W V E F F N S
UniRef90_J1HSL7	K Y G E S F H R E D L L I N K C K K N D P N D Q I Y V F F P N G	Q I Y V F F P N G
UniRef90_W5FTH7	W W A P E K P E L E R L T F S T F L A S D H S D K V K I L F C G	V K I L F C G
UniRef90_B2VUN9	K Y A R E D G E P D R S R L L N F S C L P S E E M L A K Y P N I G T I	W V E F F N A
UniRef90_R1EHD1	S Y T G E R E G L T I Q A Q R R D D P T D Q I F V F W P T	Q I F V F W P T
UniRef90_I1IUJ2	W W A E K P E M R R L S F S A T F A S D H S N K V Q F V F C P	V Q F V F C P
UniRef90_UP100032A6558	K F G E H V K R E D L V I K A P N R D K S S D Q I Y V F F C D	Q I Y V F F C D
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UniRef90_C9S900	E Y L A A D G S V N R S K L T F S A R P S S D M L S R H P D C G P I	Y I E F L A
UniRef90_V5GF43	Q F G D S E K R P S R S D L I V L V A H N D D P T D Q M F V F F P D	Q M F V F F P D
UniRef90_R8BB95	E F C T T D G S V I Q S K L S F S A R P S D A M M M K F P E C G N I	W V E F F M S E
UniRef90_L8HG16	K F M G E E S A L N R E A L T L L M Q K K D D P T D Q I F V F W P E	Q I F V F W P E
UniRef90_R0G2M9	K Y G E N M N R K A L V T L K A K K N D D N D K L Y I F F P K	Q I F F P K
UniRef90_UP1000440970F	Q F A N S S G S V D R N Q L N F F A T H E S D P S D H I F I Y F S D	F I Y F S D
UniRef90_E9DUT1	E Y C N P D G S V N R S K L Q F S A R P S D A M L K K N P D C G P V W E F F L T	V W E F F L T
UniRef90_J9VK16	R H G A T G S V D R S R N M S F D A I H E S D N T D K I F V Y F C A	I F V Y F C A
UniRef90_V4LHY3	K Y G G D M A R E D L D T L K I K R D D D S D K I F V F F M E	K I F V F F M E
UniRef90_J3NS76	Q Y T D G A G N V D A S K L L K F S A H P S E A M I K K H P E C G T V W V E F F M S	V W V E F F M S
UniRef90_W9C8C5	K F T S N D G S V D R R Q M N F S A T P S E A M I L A K Y S E I G S I W E F F L M	K I Y V F F F R D
UniRef90_G7KIC7	K F G E N M N R K D L T I Q T T N K D D P S D K I F V F F S D	V V F F F S D
UniRef90_G7KPG3	K Y G E H H M K R E Q L E I N K T H R N N P S E K I C	V V F F F S D
UniRef90_B8C1Q1	R F G E Y P S R E G L T I L L V E K A D D E T N Q L F V F F P E	Q L F V F F P E
UniRef90_B9ST46	I H G P N P D I D R L K F S A T H T S D P S K R M L V L F G G	R M L V L F G G
UniRef90_E1ZGJ5	K Y G P D I R R E D L T D D P T E Q I F V F P E	D P T E Q I F V F P E
UniRef90_UP10002C2F829	L H G Q N P D A D R L C F S T V H S S D P S E R M L V I Y C G	P S E R M L V I Y C G
UniRef90_UP100042B35D7	K F G D N I H L K R D D L L I H C N K G D A P I D Q I Y V F F P A	A P I D Q I Y V F F P A
UniRef90_M7WM95	Q Y A A G G T A I D K A K I N F S A A K E G A P E E Q I Y I F Y A E	Q I F Y A E
UniRef90_R4XGA4	Q Y C S A G G I D K V A L Q F Y A N A P P G S T N G Q I Y V A F C K	Y V A F C K
UniRef90_U5GYN8	Q Y G A A V D K A K L N F T A A L A S D P S I K I Y V F Y A D	I Y V F Y A D
UniRef90_H6BQW5	K F G D S T G H V E R R L L M K L Q A V P T E E M I K R D T P R G T I W V E F F S P	W V E F F S P
UniRef90_U1H41	R F G D R D G C P D R K L L M R L N A K P S E A M D K L H T P I G N I W V E F F S P	W V E F F S P
UniRef90_B9IHS9	V Y G Q N P D I E L L K F S A T H K S D P S K R M L V I F C G	R M L V I F C G
UniRef90_Q0UZB4	K Y A R E D G E P D R S R L L N F S S T P S E E M L I K Y T P M G T I W C E F F N A	Q I F V F F F N A
UniRef90_K8EYU3	E F G E V S R E H L T I M V P K R D D P S E N I F V F F P E	Q I F V F F P E
UniRef90_J3LZ33	R Y G D P V N R E N L V I Y C S R K G D T A D Q I Y V F F P K	Q I F V F F P K
UniRef90_W1NSF3	L Y G E E P D T S Q L T I T T A M D R D P S Q R I M V L F C A	Q R I M V L F C A
UniRef90_M7T323	Q Y C A A D G S V I R G K L N F S A R P S Q E M L R K Y P E I G T I W A E F L N	Q I F V F F F L N
UniRef90_F7HXN4	S L G S S V S V P P K K H L A L L S A G G Q G P R G P R V V Q A G I L S T E	Q I F V F F F L T E
UniRef90_F4QDK5	D F T A H N N S R E H L N S S Y N K K D D A A D R I F T F F P A	Q I F V F F F P A
UniRef90_G3U8M3	W E G G S P P G P E G S P K T T F L A V L L T S D P S D S L F T Y P P Q	Q I F V F F F P Q
UniRef90_U6IF41	S L G D T P S R K E L L L V V V N H E E D P S D M L Y V F F P D	Q I F V F F F P D
UniRef90_U6PFA2	X D L T I L V A H N D D P T D Q M F V F F P E E G	Q M F V F F P E E G
UniRef90_K4BRF5	K Y G Q T P D V E R L R V S A M H R N D L T N K V L V I F C G	V L V I F C G
UniRef90_D2UZT4	K F G T G P N N V S R D R L S I V T S M A D D P S E M I F V F F P A	P S E M I F V F F P A
UniRef90_A0A059A175	T H G Q S P D I D R L R L S I S N S L R S D P S K R V L V Y F C N	R V L V Y F C N
UniRef90_A8QAC6	E V T S N G I V D R N R M N F F T Q H K D K P E E R L F V F Y S T	R I L V I F C E
UniRef90_W9QWZ4	I Y G Q I P D V D R L R F S V T H L S D P S K R I L V I F C E	R I L V I F C E
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UniRef90_D7G1Y9	Q Y G P E P N R H D L T L L V E K V D D P P M D Q I F V F F P D	Q I F V F F F P D
UniRef90_F0YIF7	Q F G E Q P K R T D L T I L A E H E T D A E D Q V F I F L P D	Q V F I F L P D
UniRef90_W3X8Z6	Q F T D S E G S V R R T N M S F H A R P G E E L I R R I S D I G T V Y V E F F L D D	Q I F V F F F L D D
UniRef90_C5KB88	Q W N E K G G R H D L I L V S K Q D D P S D Q I F V F F F P D	Q I F V F F F P D
UniRef90_UP10002B494F9	T F G Q F P D V D R L R L K L S A A H H S D P S K R V L V V F C G	R V L V V F C G
UniRef90_E9C5B4	K V C G N D L T P V R E R M L C N F A Y K D D P T K S I L V M F A T	I M V L F C G G
UniRef90_UP10002C321F6	A F G Q N P D L D R V S F S V S V L R S N P K K K I V V I F C G	I M V L F C G G
UniRef90_M5XL8D	Q F G P K P D L D R Q Q L R I C V S V L R S N P S K K I V V I F C G	I V V I F C G
UniRef90_L7IA26	D F T D G N G N V D Q S K L T F S A R P S D A M L K L H A D C G S I W V E F I N	Q I F V F F F I N
UniRef90_M2XGL8	R L Q Q N Y S R E S L T L L K Q H H D P S D Q I Y V F F F P A	Q I Y V F F F P A
UniRef90_W2S8D2	K Y Q A G A D V I D R R R R L T Q F F N P T P E M I T R D T P R G T M Y V E F C P	Q I F V F F F C P
UniRef90_Q9ZVB9	Q Y G D P V R R D E I V I H C E K K G E P N D K I S V V F C G	Q I F V F F F C G
UniRef90_W5BAJ9	R Y G D P V R R D E I V I H C E K K G E P N D K I S V V F C G	Q I F V F F F C G
UniRef90_V4TFZ8	I Y G Q D P D V D R L R I S I S H Q S D P S K K R I L V V V F C G	I L V V V F C G
UniRef90_UP100042B2516	V F G D Q P D L E L L R I S I S H Q S D P S K K I L V V V F M G	I L V V V F M G
UniRef90_B9PN94	R F K E N E C N R S R M L L I A S H K V D P D N R V I V V Y F A D	I L V V V F A D
UniRef90_I4YJR7	T Y A G N G I I D R A S L H F F A S L E D N P D D Q I F V F F A D	I L V V V F A D
UniRef90_A9UR01	I Y G E Y P R K E L S F P V Q K V D D D N D G L F V F F P E	I L V V V F P E
UniRef90_Q9FJL8	R F C K T M N K V N K E A L F V S A N K G P N P A D K I Y V F Y P E	I L V V V F P E
UniRef90_F6HVG1	S F G H N P D P S R L R I C L P L I S S P S K K I L V V V F C G	I L V V V F C G
UniRef90_M4DKB1	L Y G D P P N V D R L R I S A Q H C S D S S K K I A V V F C G	I A V V F C G
UniRef90_F6VZ57	K P S E G Q P R C T D L T A P V A H K D D P T D Q M F V F F P E	Q M F V F F P E
UniRef90_S8C9M2	R H S E S P S V D G L K I T A L H G D D P S I K V L V L F C G	V L V L F C G
UniRef90_UP10003F49A68	A H G S S G V V E M K K E L L V N S R N N M H F T C D H S E R D R L L V V W F C P	L L V V W F C P
UniRef90_F6HLQ4	F Y S Q K P D P D R L R I S A A L R S D P S K K I L V V F C G	I L V V V F C G
UniRef90_E7NEZ1	K Y C D S M G R P Q R K M M S F Q A N P T E E S S K F P D M G S L W V E F F C D	I L V V V F C D
UniRef90_G7EAE1	S Y T M N G H L D R T A L N F H A R H V P V A G R E E T V Q Q I Y V F F A E	I Y V F F A E

	90	100	110	120
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UniRef90_M7NQ44	E P S I G I S A M Q D F I H M L Q E H G H K I G L I Y Q T S M T P S A N K I I			
UniRef90_V2YKU5	E K S V G V K T M R K M L E I L E E K S I Q R G I I I F P G N M T P S A R K V I			
UniRef90_B6JZQ6	E P S V G I K E M R T F V H T L G D H N H K T G I L I Y A N N M T P S A T K I I			
UniRef90_R7S0D8	E K S V G V K T M R K L L G L L E E K S I Q R G I I I F P G N M T P S A R K V I			
UniRef90_H1W093	D T T F G I K E I K K F I H H I S N K Y S S G I M V T H V P □ S P A R K K M L			
UniRef90_F9XDH6	E S N I G I K H I K N F A Q L L S E K N Y Y T G I F V T Q V A P T S A A L K I I			
UniRef90_M1CLJ4	G A K V G V K E M R P Y A E R L R Q E E I S Q A I F V V Q Q K L T P K S L L Q F I			
UniRef90_K1X422	E T N V G I K Q M R T F A Q Y C S A N S F A T G I L V T A V T I T P A A L K I I			
UniRef90_C4Y929	E A S V G I K T M R N F C I H I S E K N F S T G I F I Y Q T S I T P S A N K L I			
UniRef90_UP10004414684	D K N V S I K T M R K F L D V L Q Q K G I Q R G I I V F S G T M T P S A R K V I			
UniRef90_K3ZJP0	D K T F G V N Q I R Q F A K Y V I T N N Y K T G I M V T H V P □ S P A R K T I			
UniRef90_C1EDR8	E R S V G I K T M R K L I A L E E K S I Q R A I I I F P G A M T G A A R K V I			
UniRef90_E5ACT1	P E P V K I A V I R E I I Y S R V Q E E N L S R L I I L Q S K I T S K S R E S I			
UniRef90_J1HSL7	E E K V G V K T M R K F L D V L Q Q K G I Q R G I I V F S G T M T P S A R K V I			
UniRef90_W5FTH7	D E N V G M K Q L R R Y M D R M N E D D V K R A I L V V Q Q S L T A F A K Q A I			
UniRef90_B2VUN9	P E E P V R I A T I Q K I Y D Q I E G E N F S R L I I L Q G K L M P R A K E S V			
UniRef90_R1EHD1	D P K V G V K P I K R Y M D R M N E D D V K R A I L V V Q Q S L T A F A K Q A I			
UniRef90_I1IUJ2	P K P V N I T T I R E V I Y S Q I E E E N L S R L I I L Q G D I T S K A R D C I			
UniRef90_UP100032A6558	D A K V S V R V V R S F F N R M T T D N V G R G I I V C Q S Q L T G P A R N A L			
UniRef90_S3DXN5	G D N V G I K H M R T F A Q Y L S A H F H T G I T S T V N L T P S A L K I I			
UniRef90_C9S900	E G S L G V Q H L R R F V Q H V L E G H F K A G I M V T S S P L T S A G R K Q L			
UniRef90_V5GF43	D S S K I G I V K T I K T Y C S R M Q D E N I H R A I I V V Q A G M T P S A K Q S V			
UniRef90_R8BB95	D N S I G I V K E I K K F V Q H C A G S N F K A G I M V T V G A L L S P Q A R K V I			
UniRef90_L8HG16	D L K V G V R P V K K Y C D R M K E E A V F R A I V I I Q T L T A F A K Q V F			
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 E D I N R L L Q I R K T V L Q M L S D R E Y I I T A Y E Q E Y P R E S F V S
 R F F R A R R T L C E M L E D R G Y I V S S Q D K E E D F S T F K E
 E S Y R Y F L S R R T V L Q M L N D R G Y A V P N S E L T R S L T E F R F
 E S Q R Y Y L S R R T V M E M L R D R G Y D V A D S E L T G S F T E F F S S
 E S L R Y F L S R R T L L E M L Q D R G Y D V V Q H N L S P S L A E F R S
 L L H E A G E I V S L D F I Q T L E E F K V
 G S A E S S R Y F L S R R T V L E M L G D R G Y D V Q H N L A P S L S E F R S
 D L D Q T T L L Y R V R K T V L Q M L K D R G Y L V S D K K L K Q T I E E F K A S
 E D A E V R L L F R C R K T C C E M L E D R G Y F I P Q E K L E I L S E F K S
 E Q D I S R L F R I R R T I L E M L S D R G Y A V S E E D L L Q P R E V F A R
 Q E L M R L F R I R K T V L K M L T K R G Y N V L E Q T L E A T F S S F
 E T I R Y F E C R K T L M D M L H D R G Y N V S E S D L T L S L S E F R S
 E N V T H I Y R A W K T V L E M L R D R G Y I T S E E D H N T T L E G F K E
 S E S E I A R L F R V Y R T V H E M V K D R G Y V I N H D T H D M N L F R E
 D Q E E I R K L W L C Q K T I F Q M M K C H R G Y T V S E A D L E M D L D L F K T
 E S I R Y F E C R K T L M E M L R D R W Y N V C Q S E I T L S L N E Y R Q
 D D K N I Q H L F K V R R T V L Q M I R D R G Y V V S K D D L N I S R S S F E E
 E D P V R L T Q I R K T V I Q M L S D R G Y I T S A I D A E V P R D
 E S R R Y Y M A R G T L V E M L R D R G Y V V P D A E L R R S L P E F R S
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 D Y K E I L N L F K I R R T I L Q M L R D R S Y V V N Q D D L E M S R S S F E Q
 E R E F T R L W R V R R T V F Q M L N D R G Y S V T N A D L N M T L D A F R K
 D E A E I Y K L W H I R K T V F E M S H D R G Y L V T Q G E L D Q T V E Q F T E
 D E A E T Y K L W R I R K T I M Q L S H D R G Y L V T Q D E L D Q T L E Q F K E
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 E I H K V F R V M Q T V G E M M N D R K Y L V P S E L I P K T Y D E F V Q
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 F G G
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 K M F R V M R T V G E M M C D R K Y Q V A D K L I P S S V E E F K D
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 E I R A L C L S R N T A I E M V R D R G Y T T T Q E V L A L D G F H E
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 D E A T V G R L Y R I R R T V M Q M L R D R G Y L V V D H E L A T S R R D F L R
 E S H R Y Y L A R R T I L L E M L R D R G Y S I P A L D I D I Y L Q F X S
 E F H K C F R I L Q T S A E M M S D R K Y K V A Q H V P S S L G E F I E
 D D S E A A T L W K V N R T I Q E L V I K D R G Y Q V A D D E I H M D L S T F E S S
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D E E I K R L F L V Q R T L M Q M L K D R G Y L I D G S E I T M T L E E F I E
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 R K F F L C R N T L V E M C T E R G Y T T D Q K V L S Y D N F I A
 M L R D R G Y S V P E D E L A R T L P E F R A
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 L W L A R N T I I E M L N E R G Y S S S N M P L D Y A S F V S
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 L Y R L W R V R V T L A Q L C Q D R G Y D V K S E D L L T R E G F A E

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

50 60 70 80

N F C K A M N K [V] N K E A L F V T A D K G P N P E D K I Y V F Y P E				
S D P [I] S N K S T R L N F A A I [N] P E	T N Q G I Y V Y Y S D			
M H G Q F P D P D R L R L S L T H A T N S S K	R I L V I F [C] G			
K Y R E D P K Q E D L M I L K P K S S N N A E H G P K T G G K G R	T L V M F [L] G			
V F G N S P D L D S L R F S V S L R S I P H K K	I V F F S			
V Y G E R P D V D R L R S A K H I S D P S K K V K	T C G T I Y V E F C P			
R Y E L Y D R V R S K M L L V A S L K T D K D A K	L L V Y F A D			
M F E D N D R Q R S K M G I S T T H K N D S	N N R I I V Y F A D			
N F K S R E D M N S I H T K R E D A A D K	I F F F P N			
R F D E A N R Q R G Q M L L G S L R T D	E N Q K I I L V Y F S D			
K F A T E P D N V R R D A I T L A S K A D D P T H	Q A F V F F F E			
V F G E K P D L E R L R I [C] V S L R S D P R K K	I L V V F M G E			
Q F G E N D G H P S R N D L S I L V A H N D D P T D	Q M F V F F P E			
Q Y G E N M E R K D L V I L K T K K N D E S D	K I F V F F L Q			
U n i R e f 9 0 _ W 9 S 4 Q 9	K Y E D N M M R G N F T I C K A K R N N S S D Q	S S		
U n i R e f 9 0 _ Q 5 4 E H 2	R	E N L T M Y C V K K D D P T D S I Y V F F P D		
U n i R e f 9 0 _ Q 5 C N J 4	R F E S H Q R L R S R M L M V A S H R Q D Q T K	R I I C Y F A D		
U n i R e f 9 0 _ U P I 0 0 0 3 D 7 4 A 4 1	T F G D K C D L E S L R L C L P L R S N P S K K	M L V V Y L G		
U n i R e f 9 0 _ B 9 R G C 5	E F G D N P D I L K L R I S A S L H S H P D K K	M V V V F M G G		
U n i R e f 9 0 _ K 7 L Q L 5	R F G Q N P N P Q T L A F C V S H L S N	P S N T V Q V V F A G G		
U n i R e f 9 0 _ U P I 0 0 0 3 4 4 1 3 A B	Q F G D S E G R P Q H T D L M E L V A H K D D P T D	Q M F V F F P E		
U n i R e f 9 0 _ V 7 B S M 5	R F G Q Q P N P E A L G F C V S H L S N L S N	T V Q V V F A G G		
U n i R e f 9 0 _ J 9 I 4 V 3	T F N N T R D S L N L I V T K R D P N S Q V A Q N S E E Q Q K L I V F F P D			
U n i R e f 9 0 _ T 7 I S 0 7	R Y E M Y D K I R S K M L L V A S M R N D	P N D K I I V Y F A D		
U n i R e f 9 0 _ R 7 Q D Z 3	E F T Q N Y N R E S L T L L R	Q K K D D D K D Q I Y V F F P E		
U n i R e f 9 0 _ W 7 U 8 C 8	S D D V A R I S L E N N N C T A R E T I N V G K I D D A A D	V V F V F S D		
U n i R e f 9 0 _ Q 2 H W 7 7	R F G E F P K P H T L G V S V S L R S N P S I K	V Q V V F P G		
U n i R e f 9 0 _ B 0 E A 7 4	R F Y K G G E G V D H K E L T K V V I K E N D A T D G	I I V F F A E		
U n i R e f 9 0 _ U 9 U N 9 4	R C M K D G L I V K E S S M M F Q V Q K N D N	P N E Q L L V T F P D		
U n i R e f 9 0 _ I 3 E K 0 1	S Y P A L I N T G S K H S L S M L F Q H T T	M P E K Q L F V F F P D		
U n i R e f 9 0 _ U P I 0 0 0 3 2 A 5 E B 1	R F G A V V P K P E T L G V C V S L T S N P S N K	V Q V V F T G E		
U n i R e f 9 0 _ S 9 X P D 4	Q F G D S E G R P R R T D L T V L V A H N D D P T D	Q M F V F F P E		
U n i R e f 9 0 _ Q 9 8 R N 7	F Y M K N H A I C R K S L E I K R P R W D N	P E N R I I I V F V E		
U n i R e f 9 0 _ F O Z R 3 2	L T N R D E L K I Y C V K K D D P T E S	V Y V F F P E E		
U n i R e f 9 0 _ A 0 A 0 2 2 R H A 5	I F G D K P D P E R L R L V A C R V S A P S R K	I L A I F C E		
U n i R e f 9 0 _ T 1 F Y 5 0	S Y Y D Q L P S K T E Q T M I F K H S T N S	A D S L M V F F G G		
U n i R e f 9 0 _ A 9 B K 8 8	K F V K N F Q V I R S E L E I N R S K W L E	E N M R I L V V F I E		
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U n i R e f 9 0 _ B 4 G W F 6	L F G D S E Q R P M R S D L T M V L T H A D D	P K N R M L V F P E		
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U n i R e f 9 0 _ F 2 T Y 6 5	M H G D K I R R E L S Y Y V R K D S	G D P T G L L V Y F P V		
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U n i R e f 9 0 _ D 8 L V 1 6	D Y C D A E T N P D L L K L T I S R K T E D E D D R V V	V F F I R S V		
U n i R e f 9 0 _ U P I 0 0 0 2 C 3 E B 6 6	R V G V G A D G V D R G K L T I K A V R E G S A D D G I I V L F A K			
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U n i R e f 9 0 _ L 7 K 0 F 6	K Y P N C V K D T T N L R L V Q K D K E M L F V F F S D			
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U n i R e f 9 0 _ V 4 U E F 9	K F G E N M K R E D L V I N K A L R N D S S D Q E A E L L V N K E H V L V P E			
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U n i R e f 9 0 _ L 1 J C W 1	U n i R e f 9 0 _ L 1 J C W 1	M G X S A E H A C G S A S S W S H E T K L H M I L V V V F C G		
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U n i R e f 9 0 _ W 5 S 4 C 2	U n i R e f 9 0 _ W 5 S 4 C 2	K Y R T D V L P Q R V V C F K K E D E T D K M V I Q F Y T K		
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U n i R e f 9 0 _ A 0 B L Z 0	U n i R e f 9 0 _ A 0 B L Z 0			
U n i R e f 9 0 _ U 6 L C C 1	U n i R e f 9 0 _ U 6 L C C 1			
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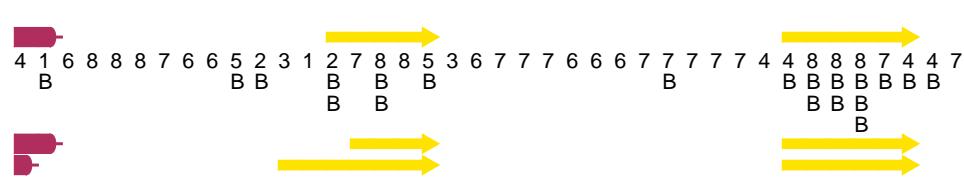
1 K Y Y ¹⁰ L L | K N N Y Y E M ²⁰ | Y R R G Y Y V E K K ³⁰ | V L N L N Y S Q F K K
 F K V R R T V I E M L D R G Y M V Q S D D L N Q T F Q D E F D G

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jnet
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UniRef90_Q3LW39
UniRef90_U5GQ62
UniRef90_V6TMT2

50 K C I E K K R Y K S F K I I N H I L N D T N N K I I G F Y N N K G L 80
V F G N S F N I D S L C L S V S L R S N R H K K G T D E I K T A N I R T V
E F H T A P F S W K I L G T H K L R K S S A N S L N Q E T I K V R P V

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UniRef90_Q3LW39
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UniRef90_V6TMT2

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

130

lupas_21
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