

1 10 20 30 40

QUERY	S A N [L] D H T K P C W Y W D K K D [L] A H T P S Q [L] E G [L] D P A T E A R Y R R E G		
UniRef90_UPI00038C4DAF	S A N M D H T K P C W Y W D K K D L A R T P S Q L E G L D A A T E A Q Y R R E G		
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UniRef90_W8C733	M P C W Y Y D K K D L R D T P S I L D G I D P G T E A R Y R R E G		
UniRef90_W4YQW8	M P C W Y Y E K E D L E H T P S I L K D G I D P E T E A R Y R R Q E G		
UniRef90_T11QM6	M P C W Y Y D K K D L K N T P S F Q N G I D P T L T E A R Y R R E G		
UniRef90_V4BYR9	M P C W Y F E K K D L K N S P S F R D G V D P A T E A R Y R R Q E G		
UniRef90_K7ISG9	M P N W Y Y D K E A F K K T P S I Q D G I D Y A T E Y K Y R K E G		
UniRef90_B8A521	A A S F P P S Q N W Y F T R E Q I E N S P S R R A G L D P D K E L S Y R Q Q A		
UniRef90_L7ML43	R W Y F T K E Q L A S T P S R R C G G L D A D K E L S Y R Q Q A		
UniRef90_C5YNQ5	P S W Y F S R K E L E N S P S R R D G I D W K K E S N [L] R K S Y		
UniRef90_G3VM92	S [L] D Y R K P C W Y W D K K N L L K T P S L L E G L D P A [E] A Q Y R R D G		
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UniRef90_A6QR52	A A Q S Q W I F T D A E L L Y R T P S I L D G M T I E A E H T S R S K G		
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UniRef90_F4PB63	N W L V S L A D M Q N S P S I N A G F T F V K E T S C R M K G		
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UniRef90_J0WSD5	UniRef90_H2YMJ9	A S N F W A S S H R W I V D R A T V E Q A R D D A Q Y T T P E H I L N L S V L F	
UniRef90_UPI0002C343CE	UniRef90_UPI0004413700	S W P C W Y Y D K A D L K K T P S L A D G V P A E T E A R Y R R E G	
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UniRef90_G0NM71	UniRef90_E3MP17	UniRef90_J3Q597	A T D F W S S S H R W I V D R A T L K Q A R L D D P E H I D F L N I Y F
UniRef90_Q86KE7	UniRef90_M0ZWA6	S P V Y R P A P S K W I F T K E Q M K N T A N R K E G M S R E E E L G Y R Q L A	
UniRef90_B2AXX3	UniRef90_V9KCP9	UniRef90_M7ZAX0	A A N F W E S S H C W L D R N K I E E S P K D Q Y L T P I E L K K L R T H Y
UniRef90_B7GDK3	UniRef90_J5JBC9	UniRef90_S2JJ62	F Y V T E E L I N S P S R K D G I D E T T E T A L R I H G
UniRef90_J5JBC9	UniRef90_J3Q597	UniRef90_S2JJ62	W L F T L D E V K S T P S I M D G L P I G E E R L R R A K G
UniRef90_R9AA82	UniRef90_R9AA82	S S S N Q Y S S E T R I R R M F R N N G C D P A R E D N Y R L Q G	
		A A N Y W L S S H C H I L T R H D L R N S P G R S D L K Y A G E R E I A C N	

QUERY		50	60	70	80
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UniRef90_W8C733	A R F I M N C G T Q M G L H N T M A T G V V Y F H R F Y M F H S F K Q F P R Y				
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UniRef90_T1QM6	A R F I I S T G T Q L R N D T M A T G V V Y F H R F Y M F H S F K D F P R Y				
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UniRef90_K7ISG9	A R F I V E L G S V L E L G Y N T W A T G V V F F H R F Y M F Q S F K D F P H Y				
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UniRef90_Q7ZVX0	C E R I Q S A G I L L R L P Q V A M A T G Q V I F Q R F F F S K S F V K H N F E				
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UniRef90_C5XTW3	C S F I R D V C I R L Q L P Q I T I A T A I M L C H R F Y L R Q S H A K N Q W Q				
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UniRef90_J0WSD5	A N I V I V K L A R R L S L R Q R V I A T A H I F F R R F Y I L K N S Y C D T D P F				
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UniRef90_UP10002C343CE	C S H I Q V K G Q N L R L P H L T I A T A M M L C H R F Y A R Q S H A K N C W H				
UniRef90_UP10004413700	C K L I H E A G I L L K Q K Q V A V A T A Q I L F Q R F F T R V S I R R T N P Y				
UniRef90_E4UVT1	N Q Q I K L I S E I G N A L N C K P R P I G V A A V Y F H R F Y M L H S F Q K F S R E				
UniRef90_G0NM71	U K L I A A F I Q E M V D K M K I G H T G L C V A H T M H R F Y Y W H S F K K Y D Y R				
UniRef90_E3MP17	A A F I Q E M V D K M K I G H T G L C V A H T M H R F Y Y W H S F K K Y D Y R				
UniRef90_Q86KE7	C F V I Q N L G N A L K L R Q R A I S T A V Y F K R F Y L K N S F V D C E P R				
UniRef90_M0ZWA6	C N L I Q E S G I L L R L P Q S V M A T G Q V L F H R F Y C K K S F A N F N N V				
UniRef90_UP100044092B3	C K L I Q Q A G F I L L K Q K Q V A V A T A Q I L F Q R F F W Y V S S M K N F G G				
UniRef90_B2AXX3	V N F I V Q V A G M I L K V P Q V T I A T S I V F Q R F Y L R Q S H A K N D R R				
UniRef90_V9KCP9	A N L V Q E M G Q R L N V S Q L T I N T A I V Y M H R F Y M Q H A F S K F H R N				
UniRef90_B7GDK3	C R F I E E A G R V V L K L P R V A V S T A M V F F H R F Y A K H S F Q D H D R F				
UniRef90_J5JBC9	V Q L I E N V R E H K L P V R T F D T A C I Y F H K F R L N F R D A E Y N C Q				
UniRef90_J3Q597	I N V I H K I G K R L L N C R Q I V T A T A V T Y F R R F Y V V K N A A E T D P C				
UniRef90_M7ZAX0	C T Y L C Q D L G M R L L K V P Q V T I A T S I V F C H R F Y L R Q S H A K N D R R				
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UniRef90_T1QM6	V T A C C C C L	F L A G K V E E T P K K C K C R D I I I K T A R S L L T D Q Q Y L Q F G G		
UniRef90_V4BYR9	V T A A C C C L	F L A G K V E E T P K K C K C R D I I I K T A R S L L S P S L F A V F G G		
UniRef90_K7ISG9	V T A C C C C L	F L A G K V E E T P K K C K C R D I I I K T A R S L L S E E N F K T F G G		
UniRef90_B8A521	V I A P A A L	F L A A K V E E Q P R K L E H V I K V T H A C L N P Q D P S D T Y		
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UniRef90_G3VM92	V T G A C A L	F L A G K V E E T P K K C R D I I I K T V R S L L N D E Q F S K F G		
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UniRef90_C5XTW3	T T V A T V C	F L A S K M E D T P C L L K H V V I V A Y E T M K R I H Q E E V L		
UniRef90_C9SIK7	N I A A T A L	F L A N K T E E N C R K T K E I I I T V A K V A Q K D E Q S K E Y		
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UniRef90_Q5BK8F	H H V A M A C C V	H L A S K I I E E A P R R V R D V I I N V F H H I I R Q P L I I D Q E Y		
UniRef90_W5GHE0	T T V A T A C C I	F L A S K I E E D T P C L G R V R D V I I T V A H E T M Y K R K P D E V L		
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UniRef90_S3CEY3	N I I A A T A L	F L A N K T E E N C F K T K H L I V A V A K V A Q K D E Q S K E Y		
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UniRef90_A0A022RYP1	L I I A T A A L	F L T S K S E E T S R P L D D V L R I S C E I F H G Q Q F H D W F		
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UniRef90_E5SCT5	D V I A A A A L	F L S A K V E E C P R K L E Y V I V K V S Y A L Q Y R D A P S S E Y		
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UniRef90_S7QGQ6	D V G M G A L	Y L A S K I E E C P L R M R D L I N V Y D L L Q R A Y F G N T F		
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UniRef90_E4X0V0	D I I A A A A L	F L A S K V V E E S P R K V E Q V L K V S Q K P E P P L D P A S D E		
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UniRef90_UP10003441D0D	H H V S M A C C V	H L A S K I I E E A P R R R I R D V I I N V F H R L R H P L L L D Q D Y		
UniRef90_D8PVR8	D M G M A T C C L	F L G G S K L E E C P I R M R D L I I N V Y D L L Q R E E F G N T F		
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UniRef90_W4KG14	I I V I S A C C C V	Y V V A A K A E E S P V H I K N V V S E S R S L F S Q G Y G I K N F		
UniRef90_J0WSD5	M V I A A C C V	Y V V A A K A E E T P I H V K S V V G E A R N L Y Q T D Y G H K G F		
UniRef90_H2YMJ9	I I T A T C C C L	F L A G K V V E E T P K K C K D I I K V A R		
UniRef90_UP10002C343CE	T V V A S A C C V	L L A S K V Q D T P R S L K D V V V Y V V Y Q I K H P H D V T K C D		
UniRef90_UP10004413700	D I I G M G A L	Y L A S K I E E C P Q R M R D L I I N V Y D L L Q R A Y F A Q S F Y		
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UniRef90_E3MP17	D V G A A C C V	F V V A G K S H E C P R K L S H V V G V W R D R K D R K Q L T T E R		
UniRef90_Q8KE7	L V A V T T C L	Y L L S S K V V E E C I T Q A K M K E I D H S F		
UniRef90_M0ZWA6	K I I V A T C L	W L A S K I E E P R K T I H V C N V F R R M E C K R E N S S V E W		
UniRef90_UP100044092B3	D V G M G A L	Y L A S K I E E C P V R M R D L I I N V Y D L L Q R A Y F A Q S F Y		
UniRef90_B2AXX3	Y V R R V F I	F L G E L D E T E L T T R K N D L E Y R R H V V E		
UniRef90_V9KCP9	V I S P A A L	F L A A K V E E Q P R K L E H V I K V V H A C L S P Q E P S E G Y Y		
UniRef90_B7GDK3	E V A V A C I	V L L A A K T E E S P K K L T V I D E C H K L K V R M Q A G E E F F		
UniRef90_J5JBC9	D A A L A S L	F V A C K V E D T I K K S K D I L A A A Y A V K N P D K P D K M F		
UniRef90_J3Q597	L V I A A A A V	Y V V A T K V V E E A P S H I K S V L E A A R S V F S G A F E V Y		
UniRef90_M7ZAX0	D I S V T C L	F V V A S K I E E T L K K L K D I I V A V H S V K Y P D K P E Q L S		
UniRef90_S2JJ62	D I I A M G A L	Y L L S T K I L E E T P P L G L R D V I I N V F H R L I S T D Y Y G P T Y		
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QUERY

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	130	140
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E D P K E E V M T L E R I L L Q T I K F D L Q V		
D D P K E E I M T H E R I L L Q T I K F D L Q V		
D D P R S E E V M T M E K I L L Q T I K F D L Q V		
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E D P K E E V M T M E K I L L Q T I K F D F K V		
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UniRef90_C5YNQ5	D K Q K E L I L L G E R V V L V T L E F D L N I	
UniRef90_G3VM92	S D P K E E I F T L E M E L L E S I L K F D F Q V	
UniRef90_G3PCP7	L Q Q A Q D L V I L E S I I L Q T L A F E I T I	
UniRef90_T1EEC4	E D P R E E I M T L E R I L L Q T I K F D L I I	
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UniRef90_H2KVD2	S D P R E E V M A Y E R V V L K T I K F D L Q V	
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UniRef90_M0SGE3	E K Q K A L I L I G E R L L S T I R F D F T V	
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UniRef90_B3RYS9	D D P K E E I I S H E R L L Q T I K F D L C V	
UniRef90_Q7ZVX0	I N T K N Q V I K A E R R I L K E L L G F C V H V	
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UniRef90_C5XTW3	A K Q K A L I L V G E T L L L S T I R F D F N I	
UniRef90_C9SIK7	W R W R D N I I A Y E E L M L E L L T F D L M V	
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UniRef90_W5GHE0	E K R K D L I L M G E A L L L S T I L R F D F N I	
UniRef90_Q8RWV3	S E L K V E L S R T E R H I L K E M G F V C H V	
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UniRef90_F6XX66	I M L K N N V I K S E R R L L K E L L G F C V H V	
UniRef90_S3CEY3	W R W R D S I I L T Y E E L M L E I I L T F D L N V	
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UniRef90_E9C4F9	L D T R G A I I T A E R R V L K D L G F C V H V	
UniRef90_UP100046230FD	D D S K E S I I L T L E E V L L E G L C F D F V V	
UniRef90_D8QQS5	V S E K Q L V I Y G E R L V L T T I E F D L S V	
UniRef90_G3V235	G Q Y R E R I I M E A E Q L I L T T L N F E L N V	
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UniRef90_U4UDW2		
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UniRef90_E5SCT5	A E E A Q K I I T F E N I L L Q T L G F D I N V	
UniRef90_M7TJZ3	W R W R D S I I L M Y E E L M L E L L C F D L	
UniRef90_M4CR82	A R L K G A V L T G E K F V L S T L R F D V E I	
UniRef90_S7QGQ6	Y D L K D A L V V A E M Q L L K R L L G F D V H V	
UniRef90_D8TH54	E R L R E E V L Q A E R A V L Y T L G F D L T V	
UniRef90_T2M728	F N M K M A V I K A E R R I I E L L G F C V H I	
UniRef90_A0A024JJ13	W R W R D N I I L L N E D I L L E A L C F D D M T	
UniRef90_E4X0V0	Y H W K N Q L I D H E L L M L Q T F G F E V T V	
UniRef90_F4PB63	R R W Q E T I I L Y H E E I V L T S L C F D L N V	
UniRef90_UP10003441D0D	V N L K N Q I I K A E R R V L K E L L G F C V H V	
UniRef90_D8PVR8	Y E L K D A L V V A E M Q L L Q R L G F N V H V	
UniRef90_L8FW50	W R W K D S I I L L Y E E T M L E L L T F D V V	
UniRef90_UP1000206148A	L D P K V S I L L G H D A S R V G E C E F S L T S E M N S Q L I V	
UniRef90_G0RY24	P S D N S K L A E M E F Y L V D D L E C D L T V	
UniRef90_W4KG14	P S D N A R L A E M E F Y L V D E L E C D L T V	
UniRef90_J0WSD5		
UniRef90_H2YMJ9		
UniRef90_UP10002C343CE	E Y A R E L I A K A E R R V L K T I G F D L D I	
UniRef90_UP10004413700	Y D L K D A L V V A E M Q I L K R L L G F N V N V	
UniRef90_E4UVT1	L S D S A K V G E C E F W L I S E L L N S Q L I V	
UniRef90_G0NM71	Q N L V D D V M G T E R V L L H S L K F D L Q V	
UniRef90_E3MP17	N E A A Q I I V L L E S M I L Q T I A F D L L N I	
UniRef90_Q86KE7	N Y L M N D I L E C E F F F V L E E E L D F C L I I	
UniRef90_M0ZWA6	N Y I T E L I E T E I H V L R E E L G F I C H V	
UniRef90_UP100044092B3	Y D L K D A M V V A E M Q L L K R L L G F N V L V	
UniRef90_B2AXX3	W R W R D S I I L A F E E I M L E T L T F D L M I	
UniRef90_V9KCP9	L Q Q A Q D L V I L E S I I L Q T L G F E I T I	
UniRef90_B7GDK3	I K L L K E R I I L L E R V I L L H T I G F E L S I	
UniRef90_J5JBC9	D Q N G K I I I G L E R L I L E T I I G F D F R	
UniRef90_J3Q597	P N D A T V L A E M E F Y L I E D L D F H L M V	
UniRef90_M7ZAX0	D R Q K E L I L L G E R R V V L A T L G F D L N V	
UniRef90_S2JJ62	D E R R R R I I N Y E K L L L E T L S F D F Q	
UniRef90_R9AA82	Y E W K D S I V V A E M Q I L K R L L G F D V Y V	

1 10 20 30 40

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UniRef90_E3LPW5	K W L M T L D E I D N P S L V D G L S K E L E A E I R Y L G
UniRef90_M9MIL5	S A N Y W A S T Q C W L I D R A Q L E L A R H E D R E Y A S E T E C A A I G
UniRef90_UPI0004413446	M S Q W V F D L A H L F K T P S Q E D G W V V H T E L Q D R N K G
UniRef90_K3XBQ6	W I F T E K E L R S T P S Q R D G M K Y V D E L I L R R K A
UniRef90_A0A010R210	Q F T S E Q R L R M L R D N K S D P A R E D S Y R L Q G
UniRef90_X8JTZ4	Q Q W Y F S P I D M L K T P S T V H G C T L E E E L S A R Q K G
UniRef90_UPI000455F7E7	S Q W L F P L D A L R S T P S V T S N I P L A K E L Y D R A R G
UniRef90_C4WWD4	L L P K E K I T S T P S M L D G L D F E T E V D L R I V G
UniRef90_W4KJC3	S Q W L F P I S A F E H T P T A I E R S V E E M Y D R A R G
UniRef90_A0A024U2K3	S T P S Q L E G L S G A D E K Q H R F F A
UniRef90_E1ZYJ0	N F Y I L T P E A L A A S P S R A D G I D E A T E Q E L R H Y C
UniRef90_Q5RD50	S L T I D H S L I P E E R L S P T P S M Q D G L D L P S E T D L R I L G
UniRef90_N1RJS4	S A N Y W Q S T Q C W S F T K E Q L A T M R Q K L E E D N A E Q Q R H L Y I Y F G
UniRef90_V9LIX7	
UniRef90_F8P4P7	S H S Q I E N T P S R E D G M P H G L E E D L R A Y G
UniRef90_J3JYL2	A G N F W Q S S H Q W I L D K Q D L V R E R Q H D L A I L T D E E Y Q K I F
UniRef90_T2MGH9	A G N F W L S S H C W M L N P E E L A E M L H D S K Y L T S K E I R K L H I F F
UniRef90_H2L9L7	R D T R T H F R V
UniRef90_D8QLH8	A T D F W E S S H R W L V D H A T L R Q A R T E D L N P E H I E F L S I Y F
UniRef90_X8JJ5	E H N A Y F S E E E V G R L T E K T R G V S E A R G E R L R Q Q S
UniRef90_UPI00022354E4	T S V P N Q Y C I E Q E L R R M Q R A T G C D Q S R E T S Y R L Q G
UniRef90_J3PFM4	A G N F W Q S S H C W L L D P S D L V R E R Q G D F A I T E E D Y Q K L F I F F
UniRef90_E9FW81	T Q S Q L H N S P S R Q D G I P E H L E Y Q I R L Y G
UniRef90_UPI0004561A4F	M S A P N S Q W F F P L S A L Q E S P S R A K L A F K D E I T R R A K G
UniRef90_W6MW21	T N S W I F S E E E L Q E S P S R A K C S L E R E L Y D R A R G
UniRef90_A8NF13	Q Q W L F S P R A L H Q T P S Q D E G M T Y E Q E L K R R K T T
UniRef90_R7S9K4	A T D F W A S S H R W I V D R A T L H R A R L E D L D P D H L A L L G I F F
UniRef90_UPI00044083B4	S A A Q I S Q T P S R A D G V P D W L E E D L R A E G
UniRef90_M5G076	C T L L P E E I L R N P P S Q R D G I S A Q V E K D H R F W G
UniRef90_A0A024FZ99	A A N Y W E S T Q R W Q F T R Q Q L E E L R Q Q L E D E D P N L V K M Y P I Y F
UniRef90_K1WU17	A G N F W H S S H Q W L L E R S D L L R E R E D L S V L T A E E Y Q K I I I F F
UniRef90_T1FS53	T P H P L A T L S Q I L H N P S C S D G L P K E E S D L R T A A
UniRef90_UPI0003F4A275	
UniRef90_V4U7Q2	S A K I K H F K P Y F S P A E V E R L S T K Q R G L S V S R E E K V R L Q A
UniRef90_R7SBV5	A A N F W T S T Q R W Q L T R E K I A D M R K G L D E E D L P D H K Q L Q L Y F
UniRef90_W7HUW0	A A N F W T S S H K Q L L D P E E E V D V V P A R E R G V T P V E F R L V K I H M
UniRef90_W5GU85	S A N F W V S T Q N W L F T R E Q L D E E P S L V Q A Y P L P D W R H L N I Y F
UniRef90_M4GDI5	A A N Y W E S T Q R W Q F T K Q D L A I R Q R L L D D E D P P Q L R H L N I Y F
UniRef90_Q2GVK1	A T D F W F S S Q R W S V D R T T L R D A R A E D L Q P E H L D F L S M F F
UniRef90_S8GH68	L L K V P P S V R E G I S P E V E L E Q R V Y G
UniRef90_S8EZ1	A A N Y W E S T Q R W Q F S K Q E L A R L R Q K L L D E D K N L V R H L S I F F
UniRef90_V9E178	A A N Y W E S T Q R W Q F S K Q E L A R L R Q K L L D E D K N L V R H L S I F F
UniRef90_L8FY65	A A N Y W E S T Q R W L F T R E K L A E A R D R L R D Q D P L P D Q R L L N I Y F
UniRef90_S8B1P2	G C D P S R E T S Y R L Q G
UniRef90_G4MMF9	A A N Y W E S T Q R W Q F T R E Q L E D L R S K L E D E D Q A Q L R H L S I Y F
UniRef90_UPI0004414C9F	Q A Y Y T P A Q V E S L A A T T R G L T V A Q E E K L R Q Q A
UniRef90_K3WJT6	A M N F W H S T H Y L Y W T K S D L K R N P L D R K Y L T D D E I D S I H L A N
UniRef90_S2KGH3	A A N Y W A S T Q R W M I D R W S L A K S K E D L K Y V S E A D Y V K L R I W F
UniRef90_Q4P9M0	T C E Q L A L T P S M S E G L S F D L E M E L R A L G
UniRef90_A8IE61	A A S Y W D S H S R N L V S K E Q L E N S H A R L L G L T R E H I Q Q L N V F F
UniRef90_S8EIS2	Y F T P V E V E R L S D R Q R G L S I S Q E E K V R Q Q A
UniRef90_G0NGW1	K W L M T L D E I D N P P S L S L A D G L S K E L E A E L R Y L G
UniRef90_J9E972	R W I F T H E Q L L M R V P S V R E G M S P E E E L K R R R V S
UniRef90_A1C7R6	A A N Y W A S T Q R W L F T R E R R L A E I R E A H S Q F P L P D Q R L L N I Y F
UniRef90_UPI00044085A3	H H P Y F S P A D V E F L S E K Q R G K L S A P Q E R L R Q Q A
UniRef90_G1KIK6	M E P P G S E E A S P V S A D T R T H F K V
UniRef90_I4Y543	D D Q I R S T L S E L D G V N K E L E Y A L R T R G
UniRef90_D5G7C7	T A D Q L A S S P S Q A D G I P A D L E T S L R W A G
UniRef90_C4YRF1	W I F S E E A I N N S P T R H Q K L T I S Q E L K N K E S M
UniRef90_D2V4V2	T P S R K D Q L S E N D E T N L Q L Y A
UniRef90_F0YDI4	E P T P S M R D G Y S A S E E K K K R R Q T
UniRef90_W3WZC7	A A S F W E S T Q R W I F T K D E L A R T R N K L L R E F P L P E W R H L S I Y F
UniRef90_F7B3X8	A G N F W Q S S H C W I L S P E F L V R E R E D L Q V M G E V D Y Q K L M M F F
UniRef90_M7PM17	
UniRef90_W9CL68	A A N Y W E S S Q R W Q F T R E Q L E D L R S K L E D E D Q A Q L R H L S I Y F
UniRef90_B8MQ51	A A N F W V S T Q R W M F T R E R R L A E V R E N L K A N S P D H Q I Q L P D M R
UniRef90_B9GQM4	A A N F W N S S H K Q L F D Q E E V D H P L D K E K G I T L E D F K L I K M H M
UniRef90_K0KCL3	Y W Q D K N D W L Y S L N D L N S S P S V K T Q Y G L K N E L D R Y R M S
UniRef90_UPI0002BC85DC	T L P Q I L E T P S A K D G I P A Q L E S D L R T A G
UniRef90_W4WEK3	
UniRef90_V5GLU9	S N L K H S T S I W I F P E S V L N H T P S R Q A K M T L S Q E L R V K E S I
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UniRef90_K7LMB7	H R P Y F T P L E V E I L S E K Q R G M N A T Q E E K V R Q S A
UniRef90_V2X9B6	S V F P P S S I Q W I L D K Q D L L K E R Q K L K F L T E E Y W K L Q I F F
UniRef90_V9DON1	S N P P R Y I S E Q T L Q Q M L K S I L A Y D E A R E D A Y R L K G
UniRef90_UPI000350EA85	Q W I F S K H A L E N T P S R S H G V S L E Q E L E R R K S T
UniRef90_F7VMA2	A H N F W Q S T H Y L H W M K E D L K H I N P K D T S L S L A E V D S I H L A M
UniRef90_J9VS28	P S R Y N S E Q G L R Q S M K Q I G Y D E A R E D G Y R L K G
UniRef90_D8LB66	
UniRef90_A0A024TLJ7	S A N L D H T N P C W Y W D K K D L T H T P S Q L E G L D P A T E A L E G
UniRef90_G2QLW2	A E K H S R P K A L K T E E E Q I L R A F Y
UniRef90_M8BE18	Q W I L D K Q D L L K E R Q K L K F L S E E E Y W K L Q I F F
UniRef90_F7AAV4	
UniRef90_A0A022RQJ1	
UniRef90_UPI0003AD8783	
UniRef90_H2LHG1	
UniRef90_T0QSE5	
UniRef90_F0VG37	
UniRef90_S3D021	
UniRef90_R7Z4Z1	

50 60 70 80

UniRef90_UPI0003F06F86	A N L I Q A V G E Q L K V R Q Q V I A T A T I Y F K R F Y S K N S L K N I D P L		
UniRef90_UPI0002C348FC	C S Y L K E L G M R I E L P Q V T I A C A M M L C H H F Y M R Q S H A K N D W K		
UniRef90_E3LPW5	C E L I Q Q G A I L L K L P Q T A A T G Q I L F Q R Y F Y Q K S F V R Y H F E		
UniRef90_M9MIL5	I F F I S I V C K R L N L R Q R V V A S A C V F F S R F F C K N S Y S A V E P F		
UniRef90_UPI0004413446	V D F L F R V G L S L N L S L T P L Y T A A T Y L H R F Y M R H S L E D Y N W H		
UniRef90_K3XBQ6	C D F I E K M S K S L D L P K L A Q I S A D N F L H R F F M R Q S L V R Y D K Y		
UniRef90_A0A010R210	V Q L I D N V R T M L R V P I K T F D T A C V Y F H W F R L S F R D A E Y N Y S		
UniRef90_X8JTZ4	V E L L L R V A G Q L R L P V N A F V A A A S Y F H R F Y M R Y S L E D Y H R Q		
UniRef90_UPI000455F7E7	V E F L F R L G T S L G L P S S A N F T A A T W F H R F Y M R Y S L E D Y H R Q		
UniRef90_C4WWD4	C E W I Q T A G I L L K L P Q V A M A T G Q V L F Q R F Y Y T K S F V R H P M E		
UniRef90_W4KJC3	I E F L F R L G T S I G L H S P G I F T A A T W F H R F F M R C S M E D Y H R Q		
UniRef90_A0A024U2K3	C E L I Q E S G I L L Q L P Q V V A V T A Q V L V Q R F Y C K R S L K K F D V T		
UniRef90_E1ZYJ0	C D V V A E A A V L L R L P Q V A M A T G Q V L F H R F F Y S K S F V K H S F E Y		
UniRef90_Q5RD50	C E L I Q Q A A G I L L R L P Q V A M A T G Q V L F H R F F Y S K S F V K H S F E Y		
UniRef90_N1RJS4	N Q Q L I T R L A K R L T I R R Q S M A T A Q V Y M K R F Y S K V E I R R T N P Y		
UniRef90_V9LIX7	C E L I Q Q A A G I L L K L P Q V A M A T G Q V L F Q R F F Y S K S F V K H S M E		
UniRef90_F8P4P7	C K M I H E A G I L L K Q K Q V A V A T A Q V I I F Q R F W F V T S M K H F G I G		
UniRef90_J3JYL2	I F F I Q T L G E Q L K L R Q Q V I A T A T V Y F K R F Y A R N S L K C I D P L		
UniRef90_T2MGH9	C H F I Q T L G E C L K L R Q Q V I A T A I V Y L K R F Y S R H S L K S A D P L		
UniRef90_H2L9L7	C R F I M E I G V K L G M H S I P V A T A C V L Y H R F F K R V C L R E Y E P Y		
UniRef90_D8QLH8	A N A I A K L G K K L G F R Q R V I A T A T V F F R R F Y L K N S Y C E T D P F F		
UniRef90_X8JJJ5	C T F I D V V V G V R S G F P R R T I A T A Q N L Y H R F F Y H L F F S M K D F D F F		
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UniRef90_J3PFM4		I Y L I D N V R L A L R L P V K T F D T A C I Y Y H M F R L C F R D A E Y N F Q	
UniRef90_E9FW81		S N F I Q V L G E H L K L K Q Q V I A T A T V Y F K R F Y A R N S L K C I D P L	
UniRef90_UPI0004561A4F		C Q L I Q Q G A G I L L G L P Q R V M A T A Q V L Y Q R F W F V S S L K H F S S R	
UniRef90_W6MW21		V Q F I H N L A K S L N L L S R L V A I T A S V Y L H R F Y M R K D I L G H H Y Y	
UniRef90_A8NF13		V E F L F R L G S S L P T S A M C T A A T W L H R F Y M R Y P L E E F H R Q	
UniRef90_R7S9K4		V E Y I R S L A A R L R C R E W P Q G R G V V L V H R F Y M R R S L Q D F P E Q	
UniRef90_UPI00044083B4		A N L M S K L G N K L S M R Q R V I A T A T I F F R R F Y I K N S Y C E T D P Y	
UniRef90_M5G076		C R L I Q S A G I L L G T P Q V V M A T A Q V L F Q R F W Y V T S M R E F S I L	
UniRef90_A0A024FZH9		C E L I Q E A G T L L K L P Q V V M V T A Q T I L H R F Y Y R K S L R D F D A F	
UniRef90_K1WU17		N Q Q V A R L G K R L G L R Q Q A M A T A Q L Y I R F Y S K V E I R R T N P Y	
UniRef90_T1FS53		A N V I Q V M G E N L K M R Q Q V I A T A T I Y F K R F Y A R N S F K C I D P L	
UniRef90_UPI0003F4A275		C M L I Q E A G I M L D L P Q S T I A T A Q V L L H R F F Y V S S M L S F G I T	
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UniRef90_W7HUW0		H H C V Q R L A R R L Q L R Q Q P L A T A E T Y L K R F Y L K V S I R D T N P Y	
UniRef90_W5GU85		S F H I W R L A Q Q V K V R Q R V I A T A I T Y F R R V Y T R K S M T E Y D P R	
UniRef90_M4GDI5		N Q Q I N K L G R K L G V R Q Q V M A T A Q M Y I K R F Y I N V E V R R T I P L	
UniRef90_Q2GVK1		N Q Q I N R L S K R I K L R Q Q V M A T A Q V Y L K R F Y T K L A I R Q T N P Y	
UniRef90_S8GH68		C H I I Q K A G I L L K L E A V S I A S A Q T I L H R F F F R R S L K Q F D V R	
UniRef90_S8EZ1		S G L I G R G K K L T L K Q R V I A T A T V F F R R F Y V K N A Y C D T D P F	
UniRef90_V9E178		C E L I Q E A G V V L L R L P Q V V M A T A Q T L L Q R F Y Y R K S L R Q F D A F	
UniRef90_L8FY65		N Q Q V K V R Q L G K R L S V R Q Q A M A T A Q L Y I R F Y T K E I R R T N P Y	
UniRef90_S8B1P2		F N Q Q V K L L G K R M S T R Q Q A I A T A Q V Y L K R F Y T K N E I R H T N P Y	
UniRef90_G4MMF9		I Q L I D S V R L A L R L P K T F D T A C T Y Y H M F R L F F F R D A E Y N F Q	
UniRef90_UPI0004414C9F		C T F I D A V G A R M G F P R K T V A T A Q L L Y H R F R H F P R R D T P Y Y	
UniRef90_K3WJT6		I S L L E E I G P R L R V R Q I I Y T A I F Y R R F Y Q T Q S F V N F D P H	
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UniRef90_D7T0U0						
UniRef90_R1EF55						
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UniRef90_I2FY98	E T A L A C C L L A T K L E E T Q V S L R H L V N A F H F V L F R L Y D S A E V		
UniRef90_A8Y3K2	D V A A A A C V F L G G K N E D T P K K L K Y V V N Q L W T L K Y P Q Q S E A T F		
UniRef90_G7XEK9	D A A A A A L F T A C C K I E D T L L K R S R E I V C A A Y N L K L P P Q E H M A P		
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UniRef90_W6MRR0	L L V T T C I Y L G C K I E E S P V H I R N I V N E S R N A W P E F V P G D V		
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UniRef90_Q8W5S1	E I M L T C V Y A A C K I E E N H V S A E E I		
UniRef90_U3JBH5	S V V P A A L F L A A K V V E E Q P R K L E H V I K V A H A C L H P Q E P S E A Y		
UniRef90_Q5BB69	T I M P C A L F I A T K T D D N Y Y M S L R H F A D G V P G		
UniRef90_J8A9C6	D V S A A A L Y M T A K L S F Q P T S P R S V L N V Y N F L V S K D A S P L W F		
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UniRef90_V4CMJ3	L V G T T T A L Y M A G K I E E E V V K L R D V I N V C H R T L H P L D I G E T F		
UniRef90_A5DZK0	L L V T T C L Y V A C K I E E C P Q H I R L I L S E A R N I W S E Y I		
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UniRef90_G8JRQ4	L L V T T C I Y L A C K V E E C P Q H I R T L V N E A R S L W P E F V P P D		
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UniRef90_A1CAN9	D V S A A A L Y L T A K L S F Q P T S P R S V L N V Y T F L L S K D A S P L W F		
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UniRef90_W4FTS0	L V A S A A I F L S A K K V N E R T V K L T H V A D A S L K L A T D A E L P A D M		
UniRef90_C6HPP8	U h i s t o r y : D A S A A S L Y L V A K L S F T P I S P R S V I N V Y A F L L S P E A S P L D F		
UniRef90_S7RTX0	D V A A S C I F L A T K T E E C G R K L R D V A K V Y H M K V T G A D A S Q V Q		
UniRef90_D7T0U0	L V G L T A L L L A S K Y E D F H P R V K D L I S I S A E		
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UniRef90_C5FRN8	E A A A A A L F T A C K I E E D P R R V K S L I D V V H I L S K A E D T N K D		
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UniRef90_F0XLM5	L V G A T A I F I A A K Y E E D P R R V K S L I D V V H I L S K A E D T N K D		
UniRef90_K2RXH6	L V I V T A L Y L A C K M E E S P Q H I R M I L G E A R Q A W Q D I I L P D T		
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UniRef90_B2B3P8	D V A L A A L F V A C K S E D T I K K S R D I L C A A H N L R S P H P D D K Q F		
UniRef90_M0UVQ2	R V A A S C V W L A G K L E E S P R R S K H I I F V F H R M E C R R E F S T K Y		
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UniRef90_X8QJN5	U h i s t o r y : N V T I T I L F L A T K T S N M P I S L D Y Y V S K L P S G K T		
UniRef90_G8BRX1	L L V T T C V Y L A C K V E E C P Q Y I R T L V S E A R S L W P E F V P P D		
UniRef90_UP100042BD9AF	L V A M A A L Y L A G K V V E E Q H L R T R D I I N V S H R Y L H P L E L D S H F		
UniRef90_A7TM01	L L V T T C V Y L A C K V E E C P L Y I R S L V S E A R S L W P E F V P P D		
UniRef90_F7IES7	L I A M S S I Y L A G K V V E E Q H L R T C D I I N V S N R Y F N P L E L D S C F		
UniRef90_Q6CP20	L L I T T C I Y L A C K V E E C P Q H I R T L V N E A R S L W P E F I P P D V		
UniRef90_UP100042B4ACE	L V G L T A L L L A S K Y E D F H P R V K D L I S I S A E T		
UniRef90_G4TFF1	N V M L T A L F L A A K T T N Q P I S L D A Y T S A I P		
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UniRef90_T1GI81	L I A A S C L Y L A G K I K D E N V R I R D V I N V C H N T L H P L D L G D E Y		
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UniRef90_UP10004417BA3	N V M L T A L F L A T K T T N H P I S I L E A F T T A I P R T A P Y A S H I P		
UniRef90_C0SGB5	D I S A A S L Y L M A K Q S F V P V S P R S I I N V Y T F L L S P E A S P L D F		
UniRef90_P10815	L V G I A A L F I A A K Y E E D P R R V K S L I D V V H I L S K A E D T N K D		
UniRef90_Q17NN3	L V G T A A M F I A A K Y E E Y P P D V G E F V Y I T D D		
UniRef90_G8ZV13	T V A T S C L L L S C K Q V E T I K K K A N E I C S V S L R L R S A K V T P D I I		
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UniRef90_C3YZV0	L V G T A A M F I A A K Y E E I L A P S V D I Y P P D V G E F V Y I T D D		
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UniRef90_Q2HEF9	I H H Y A		
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130 140

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UniRef90_H9J3D6	W S W R S A V A Q A E L L V L R L L G F N L
UniRef90_W9XN44	S R L G E M E F C L I S E M H S Q L I V
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UniRef90_B6HQM1	E S N A R G I [L] G L E R R L M L E A S G F D F R
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UniRef90_V9LJ95	W E V R D S V V Q C E [L] L L R I L N F R V
UniRef90_Q8W5S1	N Q D H R I I L K Y E M A V L Q S L E F D L I V
UniRef90_U3JBH5	[L] Q Q A Q D L V I L E S I I L Q T L G F E T I
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UniRef90_A0A024GGE7	E F Q E K D V L D C E F F Y V L Q A L Q Y D L I
UniRef90_G8JRQ4	P T K V T E F E F Y L I E E L Q S Y M I V
UniRef90_U1GUN0	E I H S R A I I G L E R R L M L E A S S F D F R
UniRef90_A1CAN9	V N P R G T L F R I E S V V L R T L G F D T H V
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UniRef90_A0A058ZA42	
UniRef90_F9XJN6	S K I G E C E F A L I S T L S S R L I
UniRef90_W4FTS0	D F I K S R I R Q Y E V I L L N S L S Y D V V V
UniRef90_C6HPP8	I N R Q N S L M N M E A T V L R T L A F N T H V
UniRef90_S7RTX0	S D S S E M I L Q T E E A L L E A L C F D F V V
UniRef90_D7T0U0	S Y T R D Q M L G M E K V V L N K L K F R L N V
UniRef90_R1EF55	H A L R A I L M K T E A H I L R V L G F D T H V
UniRef90_A0A023FSC5	E K A T D I I L N N E L L L M Q Q L K Y H L T I
UniRef90_U6MHS4	
UniRef90_C5FRN8	E T H S R A I I G L E R R L M L E S S G F D F R
UniRef90_C3YV65	A D L R Q A M A S C E L L I M R V L G F N V T
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UniRef90_Q6CP20	T K V T E F E F Y L I E E L Q S Y L I V
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UniRef90_S9WXR5	D D V K R K V L V L E R M I L E L L C F D F R V
UniRef90_J9IBF9	A Y T K E E I I L E M E R K M L Q V L D F D I Q I
UniRef90_G8ZRP1	D K E Q V L L K Y E F F P L L E S S L K F S L
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UniRef90_U5EJY2	T Y S K V Q V L K M E Q L I L K A L S F D L S V
UniRef90_F7A0Y8	V N L K N Q I I I K A E R R V L K E L G F C V H V
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UniRef90_L8WXC6	Y D A K D A L V V I A E M Q L L K R L G F D V R
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A **L**N F W K S S **H**C **W**F D K T E **I**WK K D N G **C**D **P**A R Q D N Y S **L**K G
A Q N F W K S S **H**Q W M F D K T E **I**WK Q R G E D M K **I**Y N E E E Y N R F W
F W D T S S D E **I**F D E Q E **L**K M **L**P N A **H**Y M D Y Q V E **I**Q W S M R S
L F T D E Q I E Q **C**P S V A S N **L**T **I**K E T K K R R L I G
Y M K E M E **I**A **L**L P S A **H**Y M D I **L**Q T E **I**Q W S M R S
Y **L**R E A E **I**R H K P K A H Y **I**Q P D I T E G M R T I L
Y M R E **L**E M R I **L**L P N A **H**Y M D N Q A E I Q W S M R S
Y M K E **L**E I I N M P N G D Y M S L Q E E L N W D V R A
P A E H D Y L S A S D E L A L V T Y Y
A G M Y **H** S S T Q W T F S E E E L V R **C**R A R Q N D L E T R E E L T **I**C K Y Y
Y **L**H Q L E **I**E T **L**P D S T Y L S W Q K N **L**K M R S I L
Y M K E **L**E **I**S T M P N A D Y M D N Q G E **L**E W K M R G
Y **L**R M A E **L**K R R P S F M E S M Q Q D **N**P T M R G I L
R M R S I L
M Q M
Y **L**R S **L**E **V**E Q R R S R S D Y **I**Q A D **V**T A **H** M R S I L
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D Y M S H Q Q D D L E W K T R G
D G F T K E Q Q T L F H F Y G
Y **L**K E **L**E **I**A T M A N P D Y M D S Q T E L E W K M R G
E L A T M P N P R Y M D F Q S E V E W T M R L
P E E E S T Y **L**D F Y
Q P D I T H G M R S I L
Y E A S T Q N W R F S A E Q **L**T H **I**R N S **L**N F **L**T P D E E H **L**L V K L Y
L F T K E E D Q E L I S **C**L D D V Y **L**A T D R K E A
Y M R H R E V K V R P S R Q D D I N S E M R A I L
I F D E N H **L**P S V L Y K P N P M A P E A E R Q A R R R T
D S G K E A R D R F E G
N Y W **V**S S Q K W I **L**S K K Q Q Q Q A S S N Q A Q F S P **L**E K Q L I L M S T
S H **I**P Y F T A I Q L E T **L**Y T R R R G M S A S T W Q T N R D M A
S R P Y **L**T K N Q V T R A Q K N T I S D R R **L**Y N Q K K L T
L V S P E Q L A S S T R I N D A L P R S A K D L I R F S T
D Y M S S Q Q D A K M R A I L
Q P D I T S G M R A I L
L R E A E **L**R T R P R K Q Q D **L**D A R M R S I L
Q C **K**V E R S L **H**L A R R Q C **C**
Y L R E L E M K Y R P N P S Y D I Q P E **L**K W S Y R S T L
S T P S D V P F L S V S D E L A L L T Y Y
Y Y K E A Q H E **C**R P I D Y M G S Q P E L N P K M R A I L
V E E E **L**K L V N F Y
Y F R E S E K K H R P R R R Q K D I S H N M R S I L
L A N Y M S I Q T D I S P H L R G I L
E E L S C V P S N Y M D N Q Q D L N E M M R G L L
K L D T E E S N C K T L
Y M K E **L**E S E T M P S S I Y M N A Q P D L E W H **L**R G
Y Y S K M E V S S R I S P D Y M Q F D V N E R M R S I L
Y **L**R D A E V R Y R P R P C Y M Q P D I T S G M R A I L
T P T Q L A T S S S S L D G I P A D L E T S I R Y A G
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R D Y M Q P D I N E K M R L I L
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L S E A E E R T L C E S Y
K M R R I L
R E T M A N P N Y M D F Q R E I H W H M R A
H D Y M D A Q P E A K M R S I L
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E C L T A N E E L R L V Q R Y
E R M R P N P Y Y M D N Q A E I Q W S M R S
G T Q P D L N A K M R S I L
E E E R T A L E Q M A V P L T A D E E L K L V N F Y
L A E H E S R V D Y I D F Q P E Q K M R A I L
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Y L R Q L E E E Q A V R P K Y L L G R E V T G N M R A I L
Y L A D L E L E T L P N P H Y D H Q P D L E W K M R G I L
Y Y K K A E I V S C P P N Y M E Q Q F D I N E R M R G I L
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P V Y M E D Q S F I N E R M R S I L

	50	60	70	80
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UniRef90_Q5BJA4	E K R L L D F C A V F K M P K S V V G T A C M Y F R R F Y L N N S L M E Y H P R			
UniRef90_G0P1N8	I N F I T A V A T E C K C L R Q Q V I A T A I I Y F K R F Y L R Q S F R D M C P F			
UniRef90_A8JES0	I D W L V E V H L K F K L M P E T L F L T V N L I D R F L L N E K Q V T R K N L Q			
UniRef90_A0A017SIY5	I D W L V Q V H H R F G L L P E T L Y L C V N Y V D R F L L S S K I I S D R I Q			
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UniRef90_I7HHJ4	V D W L M E V A L E Y K M V D E T V Y L A V N F M D R F L L S Q M A V L R G K L L Q			
UniRef90_C1LEL3	A C L I Q E I G S R L Q T T Q V V I N A G I Y Y M H Y F Y E V F S P E T I K P I			
UniRef90_C5DY98	I D W I I Q V H S R F Q L L P E T L Y L T V N I I D R F L L S R K T V T I N R F Q			
UniRef90_UPI00045612C2	I L I Q V G R I V K A F A L L P E L I E A T A M S Y V K R F Y L R N T C M D F H P K			
UniRef90_Q9XG1	I D W L I E V H H F F E L L R E E T L F L T V N L I D R F L L E K Q G I V R K K L Q			
UniRef90_R7WFH0	I D W L V E V T H K F F E L L M P E S M Y L T M Y V I D R F L L S L Q A V P R R E L			
UniRef90_J5SEC8	C D Q A S K I C R Q F G V P E Y V E S T T I S Y I K R F Y L K N S V M E W H P K			
UniRef90_P14785	T D W L V E V S E E Y K L D T E T L Y L S V F Y L D R F L L S Q M A V V R S K L L Q			
UniRef90_K7L8E0	I N W L I E V H F K F D L L M P E T L Y L T V T L L D Q Y L S L V T I K K T D M Q			
UniRef90_M4EAM2	I D W L L E V H D K F F E L L M E E T L Y L T V N I I D R F L L A V H Q I V R K K L L Q			
UniRef90_UPI00035957F3	P R Q G F K L G V N P D M Q P I F I A T A Y T I Y H K F F C Q I N P G T Y D P F			
UniRef90_X8J654	I D W L I Q V H E R F R L L P E T L F I A A N L V D R F L L S V R V V S L A K L L Q			
UniRef90_K4BFJ0	I D W L I E V H H K F D L L R E E T L F L T V S L I D R F L L E K Q S V V R K K L L Q			
UniRef90_V8NX52	V D W L A E V G E E Y K L Q T E T L Y L A V V N Y L D R F L L S C M S V L R G K L L Q			
UniRef90_C5P717	V R L T Q A A G V L L R L P Q D I I S Q A I V F F T R F W I G P E G G S L A H			
UniRef90_W1Q6X3	A R R C K E L A A F F H L S A Q V R S T A I M Y L Y K F Y L Y H S V M E Y H P G			
UniRef90_H9KCN6	V D W L V E V A A E Y R Q L T E T L Y L A V S Y I D R F L L S Y M S V V K S K L L Q			
UniRef90_B9H8S1	V D W L V D V H Q K F Q L S P E T F Y L T I N I I D R F L L S V K T V P R R E L			
UniRef90_Q9SBQ4	V D W L I E V H R K F F E L L M P E S L Y Y L T I N I I D R F L L S M K T V P R K E L			
UniRef90_C7S867	V D W L I E V H H K F F E L L M P E T L Y L T M F I I D R F L L S M E S V H R K V L			
UniRef90_Q5KAX2	I D W I I E V H S K F F E L L P E T T L F I A T N L V D R F F L L S K R V I S L V K F Q			
UniRef90_P30183	V E W L I D V H V R F E L L N P E T T F Y L T V N I I D R F F L L S V K P V P R K E L			
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UniRef90_W4Y7F3	E F L L R A F C K F K Q P P V P P V G T S C A Y F K R F Y I Y N T A M D Y H P K			
UniRef90_Q10653	V D W L V Q V H V R F H L T P E T L H L T V F I L D R M L Q K K V T S K A D L			
UniRef90_M9LKB9	V D W L L Q V H M R Y H M L P E T L W I A I N V D R F F L L S V R V V S L A K L L Q			
UniRef90_V4W158	V D W L T E V H R K F F E L L M P E T L Y L T V H I V D R F F L L S K E T I Q R K E L			
UniRef90_Q4P412	L V K I G Q I V H A L K L P E L V E A T A T T F V K R F Y L R N T C M D F H P K			
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UniRef90_I0Z3X2	I D W L V E V H Y K F R L L M P E T L F L T T N I I D R F L L E C K R V S R R N L L Q			
UniRef90_Q4N6F4	S E L I I Q K A G I L L Q L H A V T I A S G Q S I L H K F Y A Y H S L K D F N I I R			
UniRef90_Q6CT04	I D W I V Q V H H D R F Q L L P E T L F L T V N I I D R F F L L S K K Q V T I N R L L Q			
UniRef90_V8P894	S D A N R K F R C K A V A N G K G T A C M Y F K R F Y L N S S V M E Y H P R			
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UniRef90_UPI0002B4A8CD	I D W L L E V H R K F F E L L M P E T L Y L T V N I I D R F F L L S L K T V P R K E L			
UniRef90_R9X1I	A K K V R H F G N S L P T E V T A T A I S F F R K F F L T N S V M E L H P K			
UniRef90_Q40794	V D W L I E V H H N K F F E L L M P E T L Y L T A I N I I D R Y L S T E S V A R K E L			
UniRef90_P46278	V D W L I E V H H D K F D L L M Q E T L F L T V N L I D R F F L L A K Q N V V R K K L L Q			
UniRef90_P14635	I D W L V Q V H Q M K F R L L Q E T T M Y M T V S I I D R F F L L M Q N C V P K K M L L Q			
UniRef90_Q0CR32	V D W L I E V H H T R F F R L L P E T L F L T V N I I D R F F L L L S A E V V A L D R L Q			
UniRef90_M1AM76	I D W L I E V H H Y K F F E L L E E T T L Y L T V N I I D R F F L L A V V Q S V I R K K L L Q			
UniRef90_W0TG84	I D W I V Q V H H D R F Q L L P E T L F L C M M I Y H R F H L S S N P I A E F L A Q Q			
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UniRef90_K0T5A9	V D W L V E V H H L K F K L V P E T L Y L T V N I I D R Y L L S K T E V S R P K L Q			

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UniRef90_Q5BJA4 T I M L T C A Y L S C K V D E F N V S S T Q F V G N L Q E S P A G Q

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UniRef90_A8JES0 L V G V T A M L I A S K Y E E I W A P V R D F V Y I S D R

UniRef90_A0A017SIY5 L V G A T A L F I A A K Y E E I N C P S V W E V V F M V E Q

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UniRef90_W3X220 L V G A T A L F L A A K Y E E I N C P S V Y P P D I S E F V Y I T D D

UniRef90_N6UFS7 L V G T A A M F I A S K Y E E I Y P P G V D K F V Y I T D D

UniRef90_UPI0003EDD84D UniRef90_C6HBR9 L V G A T A I F I A A K Y E E I N C P S L Q E I I Y M V D N

UniRef90_I2FUC7 L V G V T A M F I A S K Y E E V M C P S I K N F Y H I A D G

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UniRef90_K0KNB5 L L A T G S L F I A A K Y E E V Y S P S V K N Y S Y V T D G

UniRef90_V5EZY5 S L V I T C I F L A S K T E N Y P L N L G E F A R K L A G K Q A S D K V V

UniRef90_F9WY52 L V G V T A M F I A S K Y E E V S P H V Q N F V H V A D D G F K D T

UniRef90_A9SJ33 L L G V A C M I A A K Y E E Y C A P Q V E E F C Y I T D N

UniRef90_C7EAF3 L V G V T C M F I A S K Y E E M Y A P E I G D F V Y I T D N

UniRef90_A0A059AVN7 L V A P A C L Y I A A K A E E S T V Q A K A L A F Y I R K I Y S D E K Y

UniRef90_C5YQG8 L L G V A S M L I A A K Y E E S P P H P E D F C Y I T D N

UniRef90_U6PHR7 L I G T T A M M I A A K Y E E I Y P P E L K E F T Y I T D D

UniRef90_J3NJ73 L V G I T A M F I A S K Y E E V M S P H V T N F R H V T D D D G F S E

UniRef90_G0R289 D V A L G A V F L A G K A Q E T I R K P R D I A Y V F D Q I F K F

UniRef90_B2VT76 L V G V T A M F I A S K Y E E V L S P H V Q N F R H V A D D

UniRef90_J5TQ11 L V G L T A L F I A A K Y E E I L A P S V D E F V Y M A D N

UniRef90_A5DW49 N V L Y T C I F L A A K S E N Y F I S I D S F V K A L K G V

UniRef90_E1A5P2 L V G T A S M F I A A K Y E E Y P L D V G E F V Y I T D D

UniRef90_B0CQJ7 N V M L T T L F L A T K T T N N P I S L E T Y Y T T H I P

UniRef90_M4FOL7 M L Q L V C L S L A A K V E E T H V P L L D F Q V E E T K Y

UniRef90_W2TEL5 L I G T T A M M I A S K Y E E Y P P E L K E F I Y I T D D

UniRef90_K0R5G1 E V A M A C L L L A G K T E E S P K K L E V V I R E V S S V R R V S T S F

UniRef90_W3XBD6 D A A I A C L F V A C K A E D T L K K S R E I I L C A A Y N L K Q R S P D D K L F

UniRef90_D2V085 L L G G A A A L L L A S K I E E C P L N A K N I H Q I C L G K E T P S S Q N Y D F

UniRef90_Q4P5R2 E I A V A S L F V A A K L N D T N K K P R D V L L A S Y A L R F P Q

UniRef90_H2B0M5 T L A T S C L I S C K Q V E T L K K V N D I C T T S L K L R N I T K L N Q E Y

UniRef90_L8G8Y9 D I S A A V V Y L T A K V S A H P R S L R S I A N V Y T Y L Y S S S S P S S Y

UniRef90_B4FQJ4 L V G I T A L L L A C K Y E E Y P P E V E E F V V S V P V V E D L V L I S D R

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UniRef90_I7HHJ4 L V G T A A M L I S S K F E E I Y A P E V S E F V Y I T D D

UniRef90_C1LEL3 L V A I A A F Y C A C K T E E F S R K L S F L I K A A Y D I R P D E A S D A F

UniRef90_C5DY98 L V G A A A L F V A A K Y E E I N C P T L N D I V Y M L D H

UniRef90_UPI00045612C2 S I V I T S I Y L A T K T E N Y P Q S L S S F V C A P L V E D L V L I S D K

UniRef90_Q9XG1 L V G L V A M L L A C K Y E E I W A P V D D F I S V A D Y

UniRef90_R7WFH0 UniRef90_J5SEC8 L V G M A A M L I S C K Y E E I W A P V D D F I S V A

UniRef90_P14785 L V G T A A M Y I A A K Y E E I Y P P E V E E F V Y I T D D

UniRef90_K7L8E0 L V G L T A L L L A S K Y E D F H P R V K D L I S S A E

UniRef90_M4EAM2 UniRef90_UPI00035957F3 L V G V T A L L L A C K Y E E V S V P V V D D L I L I S D K

UniRef90_X8J654 L V A M S S T Y L A S K I E E X H L S T C D I I N V S N R Y F N R L E L D X D F

UniRef90_K4BFJ0 L V G I T G L F V A A K Y E E I M V P L Q D F L R V A D S

UniRef90_V8NX52 L V G L V A T L L A C K Y E E V T L P V V D D L V F I S D K

UniRef90_C5P717 L V G T A A M L L A A K Y E E Y P P E V E E F V Y I T D D

UniRef90_W1Q6X3 UniRef90_H9KCN6 G A K S S P L R F V N P A G P P P R A D P E N Y Y V S E G T Y

UniRef90_N1M L T C F L I S A K V E N H F I G I N T F C K N I P

UniRef90_B9H8S1 L V G T A A M F I A A K Y E E I W A P V N D L V C V S D R A Y S H

UniRef90_Q9SBQ4 L V G I S A M L I A C K Y E E I W A P V N D F I C I S D R

UniRef90_C7S867 L V G I S A M L I A S K Y E E I W A P V N D F I C I S D R

UniRef90_Q5KAX2 L V G L T A L F I A S K Y E E V C C P G V E H F L H M S D G

UniRef90_P30183 L V G L S A L L L M S A K Y E E W P P Q V E D L V D I A D H A Y S H

UniRef90_M1CPV1 L V G M S A M L I A S K Y E E I W A P V N D F I C I S D R

UniRef90_G9P647 L V G I T A M F I A S K Y E E V L S P H V E N F K K I A D D G F S

UniRef90_W4Y7F3 Y I M L T C V Y L A C K V E E F N V S I S Q F C G N L Q P E E Q

UniRef90_Q10653 L L G I S A M V F I A S K F E E I V Y L P D I H D Y E F I T E N

UniRef90_M9LKB9 L V G V T A M F I A A K Y E E I L A P S

UniRef90_V4W158 L V G I S A M L I A C K Y E E I L W A P V N D F V R I S D S

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UniRef90_I1BQR9 D I F L T C F L I A T K S E S E R I S I E D F G K K L R L P S T V S

UniRef90_UPI000150A222 D V A M G S V F I A G K A Q E T I K K P R D L A Y V F D Q I F K L D D K S F K F

UniRef90_I0Z3X2 L V G V T A M L V A S K Y E E I W A P V E V K D F V Y I S D E

UniRef90_Q4N6F4 D T S A S C C F L A C K L E E N H R K L E Q V A K I F E F L K Y Y E D E N K C Y

UniRef90_Q6CT04 L V G A A A L F I A S K Y E E I N C P T L K D M L Y M L D N

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UniRef90_UPI0003B34047 UniRef90_M3AYY7 E I Y K T V M F L I A S K T E A F H L P L S Q F S R S V S V Q E I V Y M V D S

UniRef90_R7YQK0 L V G A T A I F V A A K Y E E I N C P S

UniRef90_UPI0002B4A8CD L V G I S S M L I A C K Y E E I W A P V N D F V S I S A N T

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UniRef90_Q40794 L V G I S S M L T A S K Y E E I W P P E V N D L T K I S D N

UniRef90_P46278 L V G L V A M L L A C K Y E E V S V P V V S D L I H I A D R

UniRef90_P14635 L V G V T A M F I A S K Y E E Y P P E I G D F A F V T D N T

UniRef90_Q0CR32 L V G V A A M F I A S K Y E E V S P H V A N F S H V A D E T F T D

UniRef90_M1AM76 L V G A A A L F I A A K Y E E I N C P T V S V P V V E D L L I S D R

UniRef90_W0TG84 L V G A A A L F I A A K M E D T S K K A K D I L L V S H A L R R N P Q S P D L D P

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UniRef90_K0T5A9 L V G V T A L L I A S K Y E E Y P P E I L R D L V Y I C D R A Y S K M

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UniRef90_K7G2R2 E K A L E Q I L E Y E L L L I Q Q L N F F H L L V
UniRef90_T1GVL7 N E K A Q D L V F N E N V L L Q T L G F D V A I
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UniRef90_V5EZY5 E E N R R T V L G L E F L V S Q S L G F E Y G V
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UniRef90_U6PHR7 T Y T A E Q I L Q M E R V I L N E L R F D V
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UniRef90_W3XBD6 D K S A M V I Q T L E R L T L E A I G F D F R
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 Y **L** K E I E P Q T M P N P D Y I E H Q E E L E W E V R G
 L S Y E E E Q L T R V F Y
 D Y M S Q Q F D I N D R M R G
 E E **L** Q H M Y P K D F M Q N Q C E E K M R A Y L
 L N A D E E L L L V V Y Y
 E L K W S Y R S I L
 Y **T** H T Q T E E R M R A I L
 T A S D N A E K H S Q **L** K P V S I E E E Q C I K V F Y
 L D S S E E R L L L K Q Y
 S V D S E L R V R N Q A
 S K Q N D I N E K M R A I L
 Y **L** R Q L E V L Q S P H F L D G R D D N G R M R A I L
 F H T S T Q R W T F S K D D L F T L R E R V N E L A P D E E L K Y I K Y Y
 Y L R Q L E M E Q S P N Y L E G Q E I T G N M R A I L
 Y L R K M E I E L P D Y L E K V Q K D L S P N M R G V L
 Q F D I N Q K M R A I L
 Y Y F A L E E V T Q P N P H Y M D H Q D D L E W K M R G
 Q P E E L E W E H R R T I
 Y M R E L E I K Y K P S P T Y D H Q P D M Q W S M R S V L
 D I S P E E K R D E A
 Y L K D V E Q T T M P N P R Y M E N Q K D L A W K M R G
 D Y M S F D I N D K M R A I L
 M Q P N I N K M R A I L
 A E N E N R P H Q Y M D S Q P E L N E R M R A I L
 E S S W R K D A
 F R V A E L S R R P S F M E T V Q R D I T Q S M R A I L
 Y L S E L E H K T L P S Q Y L F K Q K H L K P K M R S I L
 D Y I E S Q V E I K M R A I L
 Y M D N Q K E L L R R W R M R G
 S R P F F A P A E L S Y L H S L T I P D Q K K L V Y N Q Q V

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

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

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

E F D R S P S Y L E K L Q L D N K G M R G I L
 S T P Q L Q D R S N C P L V F E R G S F E S K P E E K Q H W R Y A
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UniRef90_C5PG07	V D W L I E V H T R F R L L P E T L F L A	V N I I D R F L S I D I V A L D R L Q		
UniRef90_C7IVT3	E Q K I Q E V C A A F K F P H K I Q A T A I	I Y F K R F Y L Q W S V M E H H P K		
UniRef90_A5C7C9	I D W L I E V H Y K F E L M D E T L Y L T	V N L I D R F L A L Q P V V R K K L Q		
UniRef90_J9IJF4	I D W L T E L H K F K L W P E T L F V C	D K F L M E N D F K K K D L Q		
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UniRef90_G8BYQ2	I D W L I D V H Q E F E L S Q E T L Y L T	I N L I D R F L L S K K E C K L N K F Q		
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UniRef90_UP100032A5A9A	E N K L Q E V C N N L H F P H K I Q A T A L	I F F K R F Y L R W S V M E H Q P N		
UniRef90_D3TRT0	E I Y L N D F C R F E M P K C V V G T S F	H N S P M D F H P K		
UniRef90_V4LQU1	L D W L I K V C A H Y N F G P L C I	L S S Y E L P K D K A W		
UniRef90_R1DYD4	I D W L I E V H L K F K L M I E T L Y L T	L E K E T I T T R N K L L Q		
UniRef90_O95067	V D W L V Q V H S K F R L L Q E T L Y M C	D R F L L Q V Q P V S R K K L L Q		
UniRef90_E4YQX1	E G R L Q S F C C N H F K V P V K N I	A T S I Y F K R F Y L R T S A M E Y N P R		
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UniRef90_D7U512	I D W L I E V H Y K F E L M D E T L F L T	E R Q T V S R K K L L Q		
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UniRef90_G0W3H0	I G W L V Q F H S K C R L L P E T T L Y L T	I N I M D R F L L S K Q T I S I S K F Q		
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UniRef90_I6L9C0	V R W L R D V H S Q L K L Y P E T T L C	S T I K A R P K Y L R		
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UniRef90_Q2WGP0	I D W L V E V H Y K F E L M E E T L Y L T	S R Q A V V R K K L L Q		
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UniRef90_O82717	V D W L I D V Q T K F D L S E T L Y L T	I N I V D R F L L A V K T V L R R E L Q		
UniRef90_M0ZBU8	M D W I C K V H S H Y N F G P L S L C	S S F D L P H D K S W		
UniRef90_I3SBK2	V D W L V E V S E E Y K L G A D T L Y L T	V N Y M D R F L L S K N Y I E R P R L L Q		
UniRef90_Q6BZF4	V D W L V E M H T R F R L L P E T T L F L A	N I M D R F M S L E I V Q I D K L L Q		
UniRef90_I1HSL5	A D W I I E V H Q K F D L M P E T T L Y L T	D Q F L L S M Q P V L R R E L Q		
UniRef90_I4YGU9	V D W L I E I H H K F R L L P E T L F L A	I N I V D R F L S L R I V S I I K L L Q		
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UniRef90_M2VVR8	A A Y I I V C S E W L S L P L P V A H Y A	V V L L T R Y D M L Y D L P R T E A P		
UniRef90_M1W282	T V E L L R A A Q F C E L P T E I R S T A I	F L R R Y V T N S V M T Y P P T		
UniRef90_I2H389	N K V N K I C Y E L L K F P R C T L E T S I	Y F Y Q R Y Y L F N K F E S E Y C F		
UniRef90_G0U8S3	V V E S L S F D S T V I A T S M V Y W H	T S Y I L F R F I S S K V P L K D Y N F Y		
UniRef90_F0ZX78	V F F F V K R V C E L L S L S S L A Y F H	T I I L F R F I S S K V P L K D Y N F Y		
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UniRef90_F2UD53	V D W L A E V H H R F E L I Q E T F H L T	T V H L L D R Y R L S K E P V T R D D V I Q		
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UniRef90_Q98SK8	V D W L V Q V Q M K F R L L Q E T T M F M T	V G I I D R F F L Q D N P V P K N Q L L Q		
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UniRef90_UP10002C2EBEE	I D W L I E V A E E F R L V P D T L F L T	V N Y V D R Y I S S G N A I K R Q R L L Q		
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UniRef90_K1R7R2	E F V L L K E F C S R F Q M P K Y V L G T A	C Y F K R F Y I N C S A M D Y H P K		
UniRef90_UP10001A57A10	V D W L I E V H E Q F H L M Q E T L Y L T	I A I I D R F F L L Q D F R L I T R K R L		
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90 100 110 120

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UniRef90_C7IVT3	H I M L T C V Y A S C K V E E N H V S A E E □	D L I L I S D K	
UniRef90_A5C7C9	L V G V T A M L L A C K Y E E V T V P I V E		
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UniRef90_B6K7A6	T I I F T A L Y A A T K A S D H Y □ P I D Q F C K		
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UniRef90_R1DYD4	L V G V T A M F I A S K Y E E I Y A P C R D F V Y □ S D K		
UniRef90_O95067	L V G L T A L L L A S K Y E E M F S P I E D F V		
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UniRef90_Q9IBG1	L V G V T A M F I A S K Y E E Y P P E I S D F A Y □ V T D R	N L R P K D Q E E L	
UniRef90_Q40492	L L G V V S S M L I A S K Y E E S P P H □ V E D F C	Y □ T D N	
UniRef90_D7U512	L V G M T A M L L A C K Y E E V C V P I V E D L I V I C	D K	
UniRef90_H6BWK4	L V G □ T A M F I A S K Y E E V S P H V G N F V H V A	D D	
UniRef90_G0W3H0	L I A A A S L F I A A K Y E E N W P S L K D I V	Y M L N N	
UniRef90_L0PBC8	L V G A T A L F I A S K Y E E □ I C P S V H E I V Y M V D H		
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UniRef90_A0DK83	L V G V A A L F I A C K Y E E I Y P P A	L K D F V Y I T D N	
UniRef90_O82717	L V G V S A M L M A S K Y E E W P P E V N D F V C L T D R		
UniRef90_M0ZBU8	M M S V A C L S L A V K M E E T V A P L P V D L Q V C	D A S Y	
UniRef90_I3SBK2	L L G I T C M L I A S K Y E E N A P R I E E F C	F I T D N	
UniRef90_Q6BZF4	L L A T G S L F I A A K Y E E □ V F S P S V K N Y A Y F T D G		
UniRef90_I1HSL5	L V G V S A L L I S C K Y E E □ W A P V N D F I L I S D S		
UniRef90_I4YGU9	L V G L T A M L I A A K Y E E V M C P T V A N V V Y M S D G		
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UniRef90_S4R635	C M A V S C F F L A A K L S E E P	E A V P M V K D L A R E S E C	
UniRef90_F0XJT0	A L Y K T A L F F G A K A E G Y Y H K □ D G F A Q	K F P	
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UniRef90_L0PEF4	P I M L T C L F I A T K A C D H Y I S L D Q F V R S I P K V		
UniRef90_V4WBQ1	L V G V T C M L I A S K Y E E I □ I P R L E E F C	F I T D N	
UniRef90_R0GW69	T V Q L A C L S L A A K I □ D E T I V P	D L I H □ Q V G D P L F	
UniRef90_H2ZC10	L A G V T A M L L A S K Y E E M Y A P V S D F V Y □ T D K A F S Q A		
UniRef90_R0G570	L V G V S A M L I A S K Y E E W P P Q V N D L V Y V □ T D N S Y N		
UniRef90_O04389	L V G G M S A M L I A S K Y E E □ W A P V N D F V C I S D R A Y S H		
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UniRef90_J5PVF7	L V G T S C L F I A S K Y E E Y P P D L K D F V	I Y S P S I K H F A Y E T D G	
UniRef90_A0CNB2	L V G V A S L F I A C K Y E E Y P P D L K D F V	Y □ T D N	
UniRef90_S7ZYA8	H I T T I T F I A T K T E N H Y □ P L S E F C K R I P K L		
UniRef90_P13952	L V G V T S M L I A S K Y E E □ M Y A P E V A D F V Y □ T D N		
UniRef90_D5GEB5	T L C L A S L S L S T K A T E S P R R L R E L L V P A Y A H L H P S S P S P L Y		
UniRef90_Q8LHA8	L L S V S C L S L A T K M E E T V V P L P M D L Q V	F D A E Y	
UniRef90_M2VVR8	Y I A A A C L F I A C K V Q E T H K R L R D V V F W T V K V R T R L E G S V R Y		
UniRef90_M1W282	E L L K T S L S L F F G C K A E G F Y □ R L A R L A	E K F P	
UniRef90_I2H389	I V G V S C I L L S S K Q M E T V K K I N E I C S V A L K L R N T E A E P E V L		
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UniRef90_E3NE03	D V A A S V L V T C K P E □ Y R T P L L N I V K V H K Y P S K Q P T D E G L		
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UniRef90_S3CVA3	L V G V T A M F I A A K Y E E E V L S P S V G S F R H V A D D		
UniRef90_Q98SK8	L V G V S A M F L A A K Y E E Y P P E I G D F T F V T D H T		
UniRef90_T1G7V9	D F M Y T C V Y L A C K V E E F N L T M Q Q F I S		
UniRef90_H9KYM9	L V G T A A M L L A S K Y E E I H H P S	E V A E F V Y I T D D	
UniRef90_J8PZ97	L V G V S A M L F I A A K F E E I N C P S L D	D L V Y M L E N	
UniRef90_M1V7Z3	D I A T A C V S I A C K A T E N V V R M R D L V R Q S Y A L L D E Q L H Q D L Y		
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UniRef90_G0W9B8	L V G A S A L F I A A K Y E E I H V P L	L K D M I Y I L D N	
UniRef90_M5WBE0	M S Q L A A V A C V S K V E E I H V P L	L L D L Q V E S S K Y	
UniRef90_A0A022Q9Z5	L L G V V S S M L I A S K Y E E S P P H V E D F C	Y I T D N	
UniRef90_V4TBU4	M M Q L A C L S L A A K M E E T E V P L	C L D L Q V G Q S K F	
UniRef90_UP10002C2EBEE	L L G V G A C M M I A A K Y E E I H V P	E V E E F C Y I T D N T Y F	
UniRef90_P34801	L L G M S S M L I A S K Y E E I W A P	E V N D L V C I S D G	
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UniRef90_UP10001A57A10	Q V G V T A M F I A S K Y E E E M Y S P	D I N D F V Y I T D N	
UniRef90_Q40515	L L G V T C M L I A S K F E E	C A P R V E E F C I T D N	
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130 140

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UniRef90_C5PG07	K E I L D A E R H I L A T N Y D
UniRef90_C7IVT3	
UniRef90_A5C7C9	A Y S R K E V L D M E K L M V N T L Q F N M S V
UniRef90_J9IJF4	T K E H V L K L E F R M L Q K L D F N V T
UniRef90_B6K7A6	N S T P Q Q I L E F E F Y L C Q S L D W D L Y V
UniRef90_G8BYQ2	A Y T G D E V L E A E M Y M N T L D F E I
UniRef90_V4UVP1	A Y T G D E V L E A E M Y M N T L D F E I
UniRef90_UP100032A5A9A	S Q D H E I V L C N E M I V Y Q A L E F E L I V
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UniRef90_V4LQU1	V F E A K T I K R M E L L V L N T L K W R L Q
UniRef90_R1DYD4	A Y T R E Q I L A M E G A V L A K L N F Q L T
UniRef90_O95067	A Y T S S Q I R E M E T L I L K E L K F E L
UniRef90_E4YQX1	T L F E D L I L S L E L P I I H A L K Y H L T I
UniRef90_Q9IBG1	A Y T T A Q I R D M E M T I L R V L K F Q L
UniRef90_Q40492	T Y T K E E V V K M E A D V L K T L N F E M
UniRef90_D7U512	A Y T R T E E V L D M E K V M V N T L Q F N M S V
UniRef90_H6BWK4	G F T V E E V L S A E R Y T L A T L K Y D L
UniRef90_G0W3H0	A Y T K Q E E V L L A A E R I I L G E L L G F E I L
UniRef90_L0PBC8	G Y S S E E I L L K A E R Y M I N M L N F D L
UniRef90_I6L9C0	G C S P S E E I L R M E R I V L D K L N W D L H
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UniRef90_Q2WGP0	A Y T R K E E V L D M E K S I V K T L Q F N T S V
UniRef90_A0DK83	A Y V K S D V L E M E G L I L Q A L N F N I
UniRef90_O82717	A Y T H E Q I L V M E K I I L G K L E W T L T V
UniRef90_M0ZBU8	E F E P R N I K R M E L I V M E T L K W R M H
UniRef90_I3SBK2	T H T K E E V L K M E T E V L K S S A Y Q L
UniRef90_Q6BZF4	S Y T E D E I L L Q A E K F I I T I L N F D L N
UniRef90_I1HSL5	A Y T R E Q I L S M E K G I L N R L Q W N L T V
UniRef90_I4YGU9	G Y E E S E L L K A E Q Y V L Q I L S W D L
UniRef90_A5DBF7	D A Q R K A I M G I E Y K L L Q T I K F D F I
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UniRef90_G3W0C2	Y S K H Q I R Q M E M K I I L K A L D F S L
UniRef90_L0PEF4	T T S S L I L E H E F L V C R A L S W D F Y V
UniRef90_V4WBQ1	T Y T R E E V L K M E S Q V L N F L H F Q L S V
UniRef90_R0GW69	V F E P K S I I Q R M E L L V L N V L R R W R L R
UniRef90_H2ZC10	Q I L T M E I I L M L K T I I N F S L
UniRef90_R0G570	S K Q I L V M E K T I I L G N L E W Y L T V
UniRef90_O04389	Q Q V L V M E K R I I L G G L E W N L T V
UniRef90_A9SDX8	T Y Q R E E V L I E M E R K V L I E L K F E L T
UniRef90_J5PVF7	A C S V E E I K E G E K F I I L E K L D F H I
UniRef90_A0CNB2	A Y T K Q D V L D M E G Q I I L Q T L G F S I T
UniRef90_S7ZYA8	T P E L V L K H E F T V A G G V R R W D F D I
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UniRef90_M2VVR8	V E E K E N L L S A E R D V L R C L H F D I
UniRef90_M1W282	N T T S D Q I I L A G E Y I L C Q G I R F A F D V
UniRef90_I2H389	E N F K K R V I Q I E Q R I I L E S C C H F D Y R I
UniRef90_G0U8S3	E G W R R M L L E T E L L L C H T L G F S F Q V
UniRef90_F0ZX78	Y N F K D N V I D M E K K V L I T L E F N I S I
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 G V D Q L R E D N I R L Q G
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 S E E K K R P S S D F M E R I Q N D I N V S M R A I L
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50 60 70 80

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UniRef90_I2K2U0	M N W L V Q L H S R F N L L P E T L F L T V N Y I D R F L S S Q T I S L S R F Q
UniRef90_K0KCI4	V D W L V Q V H S R F N L L P E T L F L T V N Y I D R F L S R R R V S L S R F Q
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UniRef90_P15206	I D W L V Q V H R F H L L Q E T L F L T I Q I L D R Y L E V Q P V S K N K L Q
UniRef90_I1GV77	I D W L I E V H Y K L E L L G E T L F L T V N I I D R Y L A Q E N V V R K K L Q
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UniRef90_H2B2A1	V N W I V E A H G R F Q L L P E T L F L T I N L M D R F L S S K K I S T L N R L Q
UniRef90_F1L318	I D W L A D V V V E Y D L Q E T L H T V S L I D R T L S S V V D C P R L K L Q
UniRef90_Q4T8S9	A T W M L V E V C E E Q K C E E E V F P L A M N Y M D R F L S S A E P T K K N R L Q
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UniRef90_Q94740	V D W L V Q V H L R F H L L Q E T L F L T V Q L I D R F L V D H T V S K G K L Q
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UniRef90_M7BPF7	V D W M V E V Q E N F E L N H E T L Y L A V K L V D H Y L V E V V S M R D K L Q
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UniRef90_F1LAN0	F T F I I Q T G M R L E A R N S T I C T A S V L T Y R A L R K E I S D D L C P Y
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UniRef90_D5A9Y7	V L S W I L K V H A Y Y N F G P L T A Y L A I N Y L D R F I L S S Y Q M P Q G K A W
UniRef90_UP10004575EBB	L D W L I E V C E V Y T L H R E T T F Y L A Q D F F D R F F T Q E N I H K S K L Q
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UniRef90_UP100006CA721	I D W L I D V H L K F D L L P E T L F L T V N L I D R Y Y L E K P V D K S K F Q
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UniRef90_I1GS99	M D W I C K V H S Y Y N F G P L S L C V N Y L D R F F L D S F N L P D K S W
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UniRef90_B3RTX9	I D W L C E V Q Q N F E L F H E T L Y L A V K L I V D R F F L S A R V V S R D A L L Q
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UniRef90_Q2ABE7	V E W L L K V N A H Y S F S A L T A V L A V N Y L D R F F L F S F H F Q R E K P W
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UniRef90_E2LP19	V D W L I Q V H D A F H Y S E E T T L Y L T V H L L N R C M R S C R V S I A T F Q
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UniRef90_UP10003EA949D	V R W L T D L H R R L Q L Y P G T L S L G I S T L D R F F L A I V K A R P K Y L R
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UniRef90_J3MN24	I I D W I C K V H S Y Y N F G P L S L Y L S V N Y L D R F F L S S F D L P H D K S W
UniRef90_R4X9Y5	L D F L I E V H A G F R L Q P T T L H A I N I I D R Y Y T S K R V V F K K H Y Q
UniRef90_A9TX13	I I E W I L K V H S F Y N Y N S P L T V A L A V N Y M D R F F L S R Y Y F P E G K E W
UniRef90_A0A024TC36	V D W L V E V G E E Y K L V P H T L H A I H L V D R C L S T M R L A R G K L Q
UniRef90_U3K1G0	I I Q W L A K L K Y Q F H L Y P E T T L A L A I S L L D R F F L A A V K A R P K Y L N
UniRef90_E9AXM8	I I D W L V D V I T E F K L H P E T T F F L A V D I I D R F F L F I Y S I P R T K L Q
UniRef90_Q9BLB5	V D W L V Q V H Q M K F R L L Q E T T M Y M T V S I I D R F M Q N N C V P K K M L Q
UniRef90_M1ELS2	V D W L V Q V H Q M K F R L L Q E T T M Y M T V S I I D R F V L S S T K V S V S K L Q
UniRef90_Q6FIX2	V D W L V D V H R N F K C L P E T T L L A I I N I I D R F F L C S S K R V V Y K R H Y Q
UniRef90_B6QHM7	L D F L I E A H A A F Q L Q P S T T L F L A I I N I I D R F F L S G T V M K R Q R L Q
UniRef90_W9RMB4	I I D W L V E V V A E E Y R L Q P D T T L F L S V N Y I D R F F L S S Y P I C R V K L Q
UniRef90_G8A2C5	I I D W L V E V V E E Y K L Q N D T L H A V S Y I D R F F L S S Y P I C R V K L Q
UniRef90_M0TH22	V M L I F L V H A H Y N F G P L S A Y L A V N Y L D R F F L S N Y E L P K G K A W

90 100 110 120

L L G V S C M L V A S K Y E E I C A P P	V E F C Y I T D N
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L V G V T A M L I A C K Y E E I T V P T	V S V P T V E D F I L I T D K
L V G A V A L F I A A K Y E E I N C P S	V S Q M I Y M V G N
L V G A V A L F I A A K Y E E I T V P T	V Q E I A Y M V D H
R V M L T S L F L S T K T V N T P I S I S D F A	H Y I G K G
D A A A A A L F I A C K I E D T L K K S R D I L C S A Y N L K P P A E D P L F	D F V Y I C D D
T T Q L A C L S L A A K M E E T Y V P P S	L D L Q V G D A R Y
L L G A T A F M I A A K F E E P N A P C V D	D F V Y I C D D
L L G V S C M M I A S K Y E E I N C P T	I C A P Q V E D F C Y I T D N
L V G A V A L F I A A K Y E E I M Y P P	V Q E V A Y M A D N N
L V G V T S M L I A A K Y E E I M Y P P	E I G D F V Y I T D N
L V G V T A M L L A C K Y E E V S V P V V D D L I L I C	D R
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L V G L T A M F V A A K H E E T V I P	V I S D W L Y M C D G
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UniRef90_Q7SAH1	D I S A A S V Y L I A K L S P Y P R S P R D L A L V Y N Y L L S P S S P E H V Y
UniRef90_UP100021A7677	L V G V T A M F I A S K Y E E M Y S P
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UniRef90_E3JQY9	N I M L T F L F L A T K T E N T L I S I D S F A S W
UniRef90_M7BPF7	L I G S T A I L I A S K F E E R C P P C V D
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UniRef90_S9Q5F3	L I G I S A L L I A S K Y E E I N C P S
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UniRef90_K7KTL8	L L G V T C M L I A S K Y E E
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UniRef90_W1QC31	L C G A I A L F I A A K Y E E I N C P S
UniRef90_R7S3E0	L V G V T A M F I A A K Y E E I L A P S V D
UniRef90_K3ZT88	M T Q L A C L S L A A K M E E T T Y V
UniRef90_C9S7U3	D A S A A S L Y L V A K M G S F P R S Q R D L S N V Y A Y L L S P Y Q P E D E Y
UniRef90_N6UQM7	P T V P T I R Y G I L L P V P G R E G R G D A Q E V Q G H Q D C Q D L A T R P
UniRef90_G7E2H9	K I M L T C L F L A T K T E N T Q M V P I D F F A
UniRef90_V4UIR3	M G Q L V C I C L S L A A K V D E T Q V P L
UniRef90_W1P5G1	M I Q L A C L S L A A K M E E T D V P L S
UniRef90_D415D7	L L G A T A L F I A C K Y D E R C P P A L D
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UniRef90_Q8S522	M T Q L L A V A C V V S K M E E T A V P
UniRef90_UP100006CA721	L V G I A A L F I A C K Y E E Y P P E V K D F T H V C
UniRef90_D8LPZ7	L V G V S A Y L I A S K Y E E Y Y P E I R M I L Q F A D N V Y S E
UniRef90_B9SX12	T M Q L A C L S L A A K M E E T N V P L S
UniRef90_I1GS99	M M S V A C L S V A V K M E E T T V V P L
UniRef90_M0T612	L L G V S S M L I A S K Y E E S P P N V E D F C
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UniRef90_Q309F1	M T Q L A C L S L A S K V E E T F V P L P L D L Q V A
UniRef90_M7YS06	L V G V T A M L L A C K Y E E V S V P V V E D L I L I C D R
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UniRef90_F4P2P0	L V G V T A L L I A S K Y E E D R M A P A
UniRef90_H8WXP6	L L A T G S L F I A A K Y E E
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UniRef90_G8A2C6	L L G V V S S F Y I A S K Y E E D T P P Q V Q V D L C F T T R D K F N
UniRef90_UP100006CF77D	L Y G V T V S I L L M A K D D Y H Q R R L E D T I K S F L I V A Q K M R L Q Q F N
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UniRef90_Q8SRF2	L V G I S A L M I A C K Y E E
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UniRef90_UP10003EA949D	C I A I S C Y F L A A K T T E E D E R I R H L A K N S C C G C S P
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UniRef90_B6K2D6	L L G C A C L W I A C K F Y E H K Q R V P L L Q E L K E L C R D V Y S E T M F
UniRef90_R7UYA6	L I G A T A L F I A C K F D E C P P V I D
UniRef90_UP10003EAB14D	L L G M A C L F I A S K R E E C L L P
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UniRef90_A9TX13	M Q L A C I S L A A K M E E S D V P I
UniRef90_A0A024TC36	L L G G C A C M M L A C K Y Q E
UniRef90_U3K1G0	C I A I S C F F L A A K T I E E D E R I
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UniRef90_Q9BLB5	L L G V A A L F V A S K F E D I Y L P D I L E Y E L I T E N T F S
UniRef90_M1ELS2	L V G V T A M F I A S K Y E E Y P P E I G D F A F V T D N T
UniRef90_Q6FIX2	L V A V T S L F I A C K Y E E V K L P K I A N F A Y
UniRef90_B6QHM7	L V G C S A L L A A K Y G E H V P T I R E L K S M C C S L Y D D D M F
UniRef90_W9RMB4	L L G V A C M M I A A K Y E E T A P H V E E F C Y V T D N T
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	130													140				
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UniRef90_L8HE72	T	I	S	G	R	D	I	V	K	A	E	S	V	I	L	A	A	L
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UniRef90_I2K2U0	Q	F	N	R	E	E	F	L	V	A	E	R	F	M	V	E	A	L
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UniRef90_C6HQU2	E	S	H	S	R	G	I	I	G	L	E	R	L	M	L	E	S	G
UniRef90_C5X2Z6	V	F	E	A	K	T	I	Q	R	M	E	L	L	V	L	S	T	L
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UniRef90_V7CVQ8	T	Y	L	K	E	E	L	R	M	E	S	A	V	L	N	Y	L	K
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UniRef90_P15206	A	Y	T	R	A	D	I	L	E	M	E	R	M	I	V	D	T	L
UniRef90_I1GV77	A	Y	T	R	A	D	I	L	E	M	E	R	M	I	V	D	T	L
UniRef90_M4EVG7	S	E	V	K	V	E	L	S	R	T	R	H	I	L	N	D	G	C
UniRef90_E9BZA9	Q	F	Q	Q	E	H	L	H	M	E	L	M	V	L	N	V	R	F
UniRef90_S8CSW9	A	F	E	A	K	T	I	Q	R	M	E	L	L	S	L	K	W	R
UniRef90_H2B2A1	R	Y	T	R	D	E	I	I	Q	A	E	K	Y	M	I	N	A	L
UniRef90_F1L318	T	Y	S	A	S	Q	V	L	R	M	E	R	V	I	L	S	A	I
UniRef90_Q4T8S9	Q	L	Q	L	Q	M	E	L	L	V	N	R	L	N	D	F	V	K
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UniRef90_Q7SAH1	N	S	F	H	T	R	L	L	R	C	E	S	R	I	L	Y	A	L
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UniRef90_B4KKY0	A	C	T	E	R	D	I	L	Q	H	E	K	L	L	Q	T	I	N
UniRef90_E3JQY9	K	T	T	N	G	D	V	L	A	L	E	F	L	V	A	Q	L	L
UniRef90_M7BPF7	A	Y	K	R	E	E	I	I	A	M	S	I	L	R	T	L	K	F
UniRef90_B5DFZ2	G	C	S	P	S	E	I	I	L	R	M	E	R	I	L	D	K	L
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UniRef90_J9IEH4	A	Y	Q	K	E	E	I	I	L	K	Q	E	F	A	L	L	E	F
UniRef90_M5VWB1	V	F	E	P	R	T	V	Q	R	M	E	L	R	V	M	T	I	L
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UniRef90_K7KTL8	T	Y	S	K	E	E	V	L	K	M	E	R	E	V	L	D	V	H
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UniRef90_W1QC31	D	Y	T	I	E	E	L	L	K	A	E	R	F	M	I	N	E	F
UniRef90_R7S3E0	G	Y	S	R	D	E	V	L	K	G	E	R	I	M	Q	T	D	F
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UniRef90_D5A9Y7	V	F	E	A	R	T	I	I	E	R	M	E	L	I	T	T	L	K
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UniRef90_B9SX12	V	F	E	A	K	T	I	Q	R	M	E	L	L	V	S	T	L	K
UniRef90_I1GS99	E	F	E	A	R	N	I	I	K	R	M	E	L	L	V	M	E	T
UniRef90_M0T612	T	Y	T	K	Q	E	V	V	K	M	E	S	D	I	L	K	F	L
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UniRef90_M7YS06	A	Y	S	R	E	D	I	I	L	D	M	E	R	M	I	V	D	R
UniRef90_B3RTX9	A	Y	S	R	Q	A	V	L	D	M	E	R	D	I	C	Y	A	L
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UniRef90_F4P2P0	A	Y	L	P	E	E	I	I	L	Q	A	E	R	Y	I	L	G	M
UniRef90_H8WXP6	S	Y	S	V	E	E	I	I	L	Q	A	E	K	Y	I	L	T	V
UniRef90_G3WCN7	A	Y	Q	R	E	E	I	I	L	R	M	E	N	I	L	H	T	L
UniRef90_G8A2C6	K	E	V	Q	E	M	N	K	I	K	T	L	T	T	L	D	D	F
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UniRef90_C5L001	A	Y	T	R	E	V	V	L	D	M	E	K	L	M	N	T	L	G
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UniRef90_Q2ABE7	V	F	E	A	K	T	I	Q	R	M	E	L	L	V	S	T	L	K
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UniRef90_C3ZT09	O	Y	R	H	E	V	M	E	M	V	D	I	L	N	T	L	G	C
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UniRef90_T1EGC7	T	Y	T	M	K	Q	V	L	Q	M	E	Q	A	I	L	K	T	L
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UniRef90_C0PN08	T	R	D	Q	I	L	T	K	E	K	A	I	L	D	M	L	H	W
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UniRef90_B6K2D6	V	Y	V	R	N	E	I	I	R	M	E	K	L	D	M	L	H	W
UniRef90_R7UYA6	T	Y	S	K	K	Q	L	L	R	M	E	R	H	V	L	E	K	L
UniRef90UPI0003EAB14D	A	Y	V	R	N	E	I	I	R	M	E	K	L	D	M	L	H	W
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UniRef90_R4X9Y5	I	L	K	R	M	E	R	H	V	L	E	K	L	D	M	L	H	W
UniRef90_A9TX13	I	F	E	A	H	T	I	Q	R	M	E	L	L	V	S	T	L	E
UniRef90_A0A024TC36	T	Y	T	N	E	F	M	L	L	R	M	E	A	F	V	L	E	K
UniRef90_U3K1G0	G	C	S	P	A	E	I	I	R	M	E	K	I	I	L	D	K	L
UniRef90_E9AXM8	Y	T	S	G	E	V	I	E	M	E	F	D	V	V	T	T	L	R
UniRef90_Q9BLB5	K	K	Q	I	L	K	M	E	R	H	V	L	E	K	L	D	L	F
UniRef90_M1ELS2	Y	T	K	H	Q	I	Q	R	M	E	K	M	K	I	L	R	S	N
UniRef90_Q6FIX2	A	A	T	V	E	D	I	I	R	E	A	E	F	N	I	L	E	T
UniRef90_B6QHM7	Y	F	K	E	E	V	L	Q	M	E	W	H	V	L	Q	T	L	G
UniRef90_W9RMB4	Y	F	K	E	E	V	L	Q	M	E	W	H	V	L	Q	T	L	G
UniRef90_G8A2C5	R	D	E	V	L	E	M	E	T	D	I	L	K	T	L	D	N	L
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1 10 20 30 40

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 K K Y M D R Q T E I N S A M R A

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

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

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

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

P E R L Q P R P E S V D L A A V R R A
 E L K R L P D F M E R I Q K D V T Q S M R G I L
 E M R A L V

S D E W F R C A R R A T
 M R A I L

K M R T I L
 L F T K E Q Q K Q T P C T L S G K T S P S V F A A R K E A

T E L D Q R A S T T Y M E Q L Q Q D I T A N M R G I L
 E A

V Q T E I N K N M R K I L
 P L P R R A L P P T V T P E M R E I L V
 Q F

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

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

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

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

L R Q H P S I E A G M R S I L

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

A

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

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

P S M D L T I D Q E R V L R E F Y
 L Q P E I Q W F M R P F L
 D L D L S V R R E A

M D Q Q P E I K W H M R L
 G V N P L R E E S L R L Q G

L L S L E E R Y S P S Y F Q C V Q R D I Q P Y M R K M L

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UniRef90_UPI0003AAC28	I D WI [Q] K V	R V H F G F G P L C V Y L A V N Y M D R F L S A C E T L K E R L W			
UniRef90_L1I53	N D WL I E V	H L K F K L R Q E T L Y L C F Q L I D R F L E R N T V P R Q S L Q			
UniRef90_UPI0003C02BF0	V D WL V E V	Q M S F E M S H E T L Y L A V K L V D H Y L M K E I C K K D K L Q			
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UniRef90_L0PCM7	F I T L L	S S I L R L P E E T T A L A F V Y Y H R Y H R W E S L Y L I D D Y			
UniRef90_G0W485	V D WL V E V	H D K F Q C Y P E T L F L A I N I M D R F L S Q N K V S M N K L Q			
UniRef90_K3ZUS7	M D WI [C] K V	H S Y Y N F G P L S Y L A V N Y L D R F I S S Y N L P H D K P W			
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UniRef90_A5AX76	V G W I A K A H A H F G F G P L C A Y L A I N Y L D R F L S T Y E L P K G K A W				
UniRef90_D3AX20	V D W M M A	V H V R F K M L S E T F F L S V N I V D R Y L S A V P I P I N K L Q			
UniRef90_S8BZM4		Q S L A T A Y V Y M H K Y R K F I R D S N N H P H			
UniRef90_A0A024GLU9	C T F L S D L G K T L D L P S I V V I S A Q Y H I Q R F Y M L Q S F A E H D R F				
UniRef90_S9WB10	V D WL V E V	Q I T F E M S H E T L Y L A V K F V D H Y L M E V I C K K D K L Q			
UniRef90_W8BG46	I D WI [N] E V	H F Q F H L T P E T F Q M T V A I I D R Y L Q E N D T K R T H L Q			
UniRef90_V7AT27	V D WL V D V	A V E Y K K L L S E T L H L S V S Y I D R F L S V S P V T K S R L Q			
UniRef90_Q9FMH5	V D WL V E V	A E E Y K K L L S D T L Y L A V S Y I D R F L S L K T V N K Q R L Q			
UniRef90_B2MV15	V D WL V Q V	H H R F T L M Q E T L Y L T V G T L D R Y L Q V R N T P R N M Q			
UniRef90_Q5U8T4	L D W M L R V A H Y G F T A M T A V L A V N Y F D R F L C F Q K D K P W M S Q				
UniRef90_D3BCL6	V D WI T D L A F D R I K N E T L F L A I N Y L D R Y L C S A V K V K K D Q F Q				
UniRef90_K4AC57	V R WI I K T T A M F R F S G K T A Y V A V T Y L D R F L A Q R R V N R G Q E W				
UniRef90_J9IBX0	V G W L L E V	H L K F K L L P E T L F L T I N L I D R Y S E Q K Q I Q R T K Y Q Q			
UniRef90_M4E4A3	V D WL V E V	S E E Y R V P E T L Y L T V N Y I D R Y L S G G N V I S R Q K L Q			
UniRef90_Q6FVY0	V D WL V E V	H D K F Q C Y P E T L Y L G I N M D R F L S Q H K V D I N K L Q			
UniRef90_E2AIK8	L D WL I E V	C E V Y K L H R E T Y Y L A M D Y I D R Y L S I H D L P K N Q L Q			
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UniRef90_A0BPX2	I E W I I D V	T A K F R L K Q E T L Y L T I S L V D R Y M L T T P V S K N I L Q			
UniRef90_G4VG18	V N W L V Q V	H Y S Y K L Q P E T L Y L C V G I L D R Y L L K N S L T K D G F Q			
UniRef90_U9UF13	Q T Q I P L V	D S K F K N K F T D K A S A I T Y V K R F Y L R N T M M D Y H P R			
UniRef90_L8GRU0	I I D WM I D V G S T F T L L S E T T V F L G V R L M D M F L S R K Q V S R E R M Q				
UniRef90_UPI000265857C	I I E W L V S L T N R F K L L Q D T L L L C V S I L D R F L V S K I R V N R S N F Q				
UniRef90_B9EUJ1	I I D WL V E V	A E E Y R Y L P D T L Y L T V N Y I D R Y L S S G N E I N R Q R L Q			
UniRef90_M4FI64	V D WL V E V	A D E Y K K L L S E T L L H L T V S Y I D R F L S L K T V N K K R L Q			
UniRef90_D6WX89	V D WL V S V	A H E Y K K M S N N T V H L T V N Y L D R F L L S N I S V I R S K F Q			
UniRef90_10IYS6	V E W M L K V	A H Y G F S A L T S I L A F N Y L D R F L Y G P C Y Q Y Q R D S R P			
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UniRef90_J3LHB1	L D WI W K V I E H Y N F A P L T A V L S V N Y L D R Y L S E N G L P E R E A W				
UniRef90_Q38819	V D WL V E V	S E E Y T T L A S D T L Y L T V Y L I D W F L H G N Y V Q R Q Q L Q			
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UniRef90_C5WSA9	V D WL V E V	F E T R A Y F G F S H R T A Y L A V S Y M D R F C L R R C M D S S V M P			
UniRef90_G0WDM5	I I D WL V E V	H E K F F H Y A N E T L F L G I N I M D R F L S F N K V T V T K L Q			
UniRef90_H2ANM6	V D WL V E V	H E K F S C F P E T L Y L A M M L D R F L S R N K A T I D K L Q			
UniRef90_V4TF46		M M L C H Q F Y M H Q L H			
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UniRef90_Q8GV9	V D WI L K V	K S C Y G F T P L T A I L A I N Y L D R F L S S L H F Q E D K P W			
UniRef90_UPI00042AD1E0	V D WL V E V	K L D T Q F I L A T A Y A I Y H F K F C K I N L D T Y D C Y			
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UniRef90_UPI0002B469BC	V D WL V E V	S E E Y N L V S D T L Y L T V N V I D R F L S Q N Y I E K K R L Q			
UniRef90_A81059		M N Y I N R F F L T R S I A K N D R H			
UniRef90_Q98RV6	I D WI I D V H H K F K L L S K T L F L T I N I I D R F L C L K K I G K Q K L Q				
UniRef90_UPI0002C58806	V D WL L Q V	H E Y L G L A G D T L Y L T V H L L D R F L S D Y L R A G R V R L H R L Q			
UniRef90_D8LGP7	V A W E N Q M A T F L G Y N R D T V A V A L N Y F D R F T C E K R C S P T L A Q				
UniRef90_H2ZXS9	I D WL V Q V H L K F C L L Q E T T M F L T V A I I D R F L Q N S P A S K R T L Q				
UniRef90_S9PSK3	V D WI I Q V	H Q Y F R F L L P E T L Y L T V N L I D R F L S T K V V S F Q K I Q Q			
UniRef90_G7JDW7	I I D WI Q K V	Q S H F G F P L C V Y L S I N Y M D R F L S A Y Q F P E R R D W			
UniRef90_M4DJH6	V D WL V E V	A E E Y T T L V P D T L Y L T V Y L I D W F L N G N Y L E R H K L Q			
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UniRef90_I1FYR5	V D WL V E V	C D E F H L P E T L F A V A V Y V D R Y L S Q V S V P R S K L Q			
UniRef90_M4E076	I I D WL V E V	A E E F S L P P E T L Y L A V N C L D R Y L S G N V I T K L N L Q			
UniRef90_F6TTF4	V D WL V E V	Q D E Y K K L Q N E T T L H A V A Y V D R F L S E M S V S R P K L Q			
UniRef90_H2LFU3	V D WL V E V	S Q E Y M L S S E T T L Y L A V N Y V D R F L C T T N V K R N K L Q			
UniRef90_Q10K98	I D WI C V	Q A Y Y S F G P L C A Y L A V N Y L D R F L S S R F Q R D K S W			
UniRef90_B9HH84	V E W F L R V	K A H Y G F S A L T G V L A V N Y F D R F L S V E F M P W M Q Q			
UniRef90_Q0UCR8	V D WL V Q V	H N R F T T L L P E T L F L A V N Y V D R F L S C K V V S L G K L Q			
UniRef90_G1KBK3	L G W M L E V	C E E Q K C E E E V F P L A M N Y V D R Y L S L H R L P Q E D G W			
UniRef90_K3ZV40	V A W I L K V	Q E Y Y G F P L T A Y L A V N Y M D R F L S L H R L P Q E D G W			
UniRef90_T1J295	L D WL V E V	C E V Y R Y L H R D T Y Y L C L D F I L D R Y L T Q F N L P K S Q L Q			
UniRef90_I4YGK7	I D F L I E V	H A H A R L R P E T L Y L A V N I I D R Y L V S R R V V L K K H Y Q Q			
UniRef90_C5WTS4	V R WI I K T T A T F R C G G K T A Y V A V T Y L D R F L L A Q R R V N R R Q E W				
UniRef90_H3GLV3	V D WL V E V	G E E Y E L D S Q T F H K A V N L V D R C K E I K I N R K Q F Q			
UniRef90_Q6CHN1	C S Q S E G I	A Q V L N L P S K V K A T A V L F F K F F L I N S V M V Y D P V			
UniRef90_V4KI58	V D WL V E V	A E E Y K L V S D T L Y L T V S Y V D R F L S M K P I N R Q R L Q			
UniRef90_J3MCG0	I D WI W K V	H E H Y K F G P L T A V L S V N Y L D R F L S V Y D L P Q G K A W			
UniRef90_UPI0003F49A80	I D F L I E V	H T Q F R L R P E V L Y L T M N I V D R Y V S K R V V Y K K H Y Q Q			
UniRef90_UPI0002C307B3	V D WI R K A N A H F S G P L C Q Y L S L S Y L D R F L S A Y E I P N G K A W				
UniRef90_G7LH81	I I D WL V E V	A D E Y R R L L P D T L F L A V N Y L D R Y L S G K A M N T Q Q L Q			
UniRef90_O82137	I D WL V D V	H T K F F L L P S E A L Y L T I N I I D R F L A I S L V S R R E L Q			
UniRef90_T5A8N5		Q A G Q L L R L P Q S V T A Q A N I L A R Y W L V D S L M A H E F S			
UniRef90_R0JIE5	I D WI M E V	H Q N F K F S P E T L F L A V N L L D R F L A S K E I R K E N L Q			
UniRef90_B4NIU2	I D WL V D V	N E Q Y E M N T E T L Y L T V S Y I D R F L S F N A I G R E R L Q			
UniRef90_M0S9Z3	V D WL V Q V	A E E Y R R L V S D T L Y L A V S Y I D R F L S V N S V M E F H P K			
UniRef90_V7AVT8	V D WL V E V	A E E Y R R L P D T L H L S V S Y I D R F L D R V L S V N P V T K S R L Q			
UniRef90_K3WG18	E V K V Q E S C T Q L R T S D K V K C C A V M L Y K F R Y L S S N S V M E F H P K				
UniRef90_H8X866	L D F L E L H S S F R L Q P Q T L F L C L S V N Y L D R F L C A K R V F K R H Y Q Q				
UniRef90_G7JXR1	L D WI W K A H Y Y G F G P L C Q Y L S L S Y L D R F L S V F Q P R G V T W				
UniRef90_UPI000440EE98	V E F L L E L H F T F R L R P E T L Y L T L N V L D R Y V S R R V V Y I K H Y Q Q				
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G T K Y

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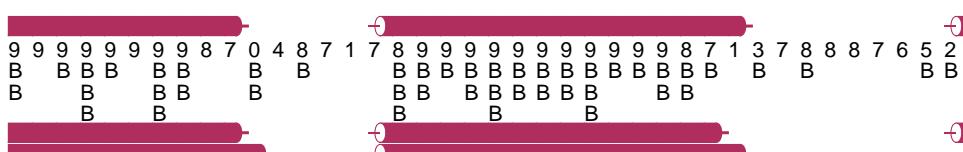
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