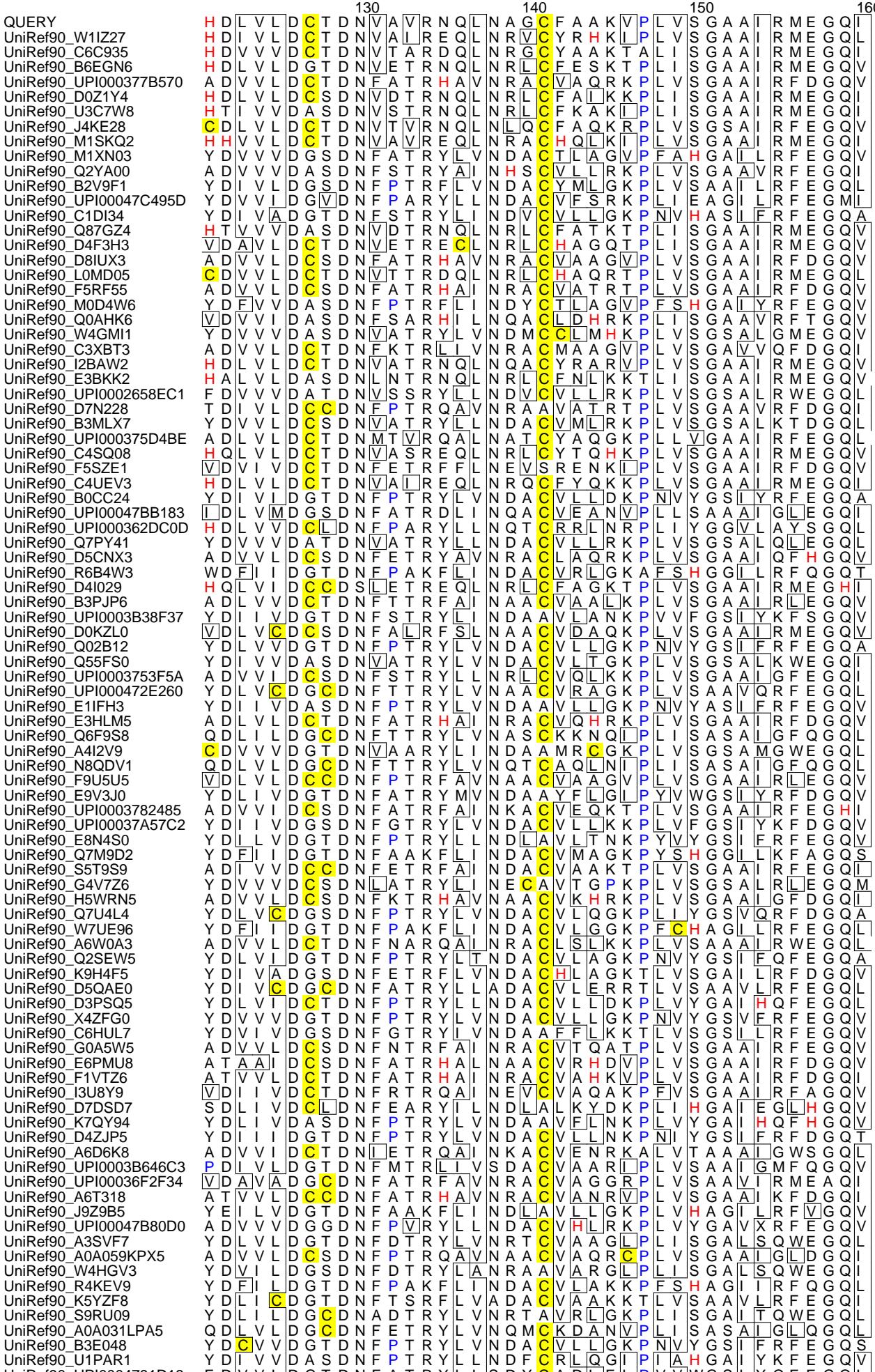


QUERY	1	10	20	30	40
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QUERY	50	60	70	80
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UniRef90_UP1000377B570	L G S P A A M Y L	L A S A G V G H I T I	L D D D E V D L T N L	Q R Q I A H T T E R
UniRef90_D0Z1Y4	L G C A S T Q Y L	L A A A G V G K L T L	I D D D K V E V S N L	Q R Q L L H N D S T
UniRef90_U3C7W8	L G C A C S Q Y L	L A T A G V G K V T L	V D D V E M S N L	H R Q V L H H E N D
UniRef90_J4KE28	L G C A A A S Q Y L	L A S A G V G H L T L	D F D T V S L S N L	H R Q I L H T D A N
UniRef90_M1SKQ2	L G C A A A A Q Y L	L A A A A G V G H L T L	D F D T V S L S N L	H R Q I L H T D A R
UniRef90_M1XN03	L G S P I V Q Y L	L A A A A G V G T L G I	A D D D V V E R S N L	Q R Q V I I H G D P D
UniRef90_Q2YA00	L G S P A S M Y L	L A S S G V G T L T I	C D N D R V D L T N L	Q R Q I I H G T D D
UniRef90_B2V9F1	L G S P S L Y Q Y L	L A A A A G V G T I G I	F D F D V D F S N L	Q R Q I L H N T S R
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UniRef90_C1DI34	L G S P P A L Y L	L A A A A G V G R I L G L	S D D V V D Y S N L	Q R Q V I L H H T A D
UniRef90_Q87GZ4	L G C A S S Q Y L	L A T A G V G R I T I	L I D D D I V E L S N L	Q R Q V L H H D T D
UniRef90_D4F3H3	L G C A A S Q Y L	L A A A A G V G Q L T L	L D F D T V A L S N L	Q R Q I L H S D A R
UniRef90_D8IUX3	L G S P A A M Y L	L A S A G V G R I T L	V D H D T V D L T N L	Q R Q I L M H T T A R
UniRef90_L0MD05	L G C A A A A P Y L	L A A A A G V G R I L T L	V D F D S V A L S N L	Q R Q I L H N D R R
UniRef90_F5RF55	L G C P S A L Y L	L A A A A G V G T L V I	V D D D E V D M T N L	Q R Q I L H R E Q S
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UniRef90_Q0AHK6	L G S P S A L Y L	L A A S A G V G R I L V I	C D H D R V D L T N L	Q R Q I L H D T A S
UniRef90_W4GMI1	L G C P V L L Y L	L S G M G V G H L G I	V D G D H D M S N L	H R Q V L H T P A N
UniRef90_C3XB73	L G S P A S M Y L	L A S G G F G K L T L	V D N D Q V E L T N L	Q R Q I L H S T D R
UniRef90_I2BAW2	L G C A A A A P Y L	L A G A G A G H L T L	L D F D T V A L S N L	Q R Q I L H H D Q D
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UniRef90_UP10002658EC1	L G C P V A M Y L	L A T S G V G T I G I	V E Y D V E E L S N L	H R Q I G H R E A S
UniRef90_D7N228	L G A A A L P Y L	L A A S G I G R I T I	A D P D A I D D T N L	Q R Q I T H F T E A D
UniRef90_B3MLX7	L G C P A A Q Y L	L A A A A G C G K L G I	I D Y D E V E R S N F	H R Q I L H S E A R
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UniRef90_F5SZE1	L G A P V I S M Y L	L A G S G V G H L T L	V D D D V V E L L A N L	Q R Q I V H T H Q N
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UniRef90_UP10003B38F37	L G C P T L Q Y L	L S A A A G V G T I G I	V D D D V E K S N L	L F T Q H D
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UniRef90_F9U5U5	L G S P V A M Y L	L A A A A G V G R I L V L	A D F D A V D L S N L	Q R Q I L H T T A Q
UniRef90_E9V3J0	L G S P P A L Y L	L A A A A G V G G T I G I	V E F D E V D E S N L	Q R Q I L H K Q S T
UniRef90_UP10003782485	L G S P P A L Y L	L A A A A G V G G R I S F	E D D E V D L S N L	Q R Q I A H Y T D D
UniRef90_UP100037A57C2	L G C P V C Q Y L	L T A A G V G V I G V L	I D G D V V E A S N L	Q R Q V L F S P E H
UniRef90_E8N4S0	L G S P P I S L Y L	L A A A A G V G G T I G L	V D Y D V V D E T N L	Q R Q I V H S T S H
UniRef90_Q7M9D2	L G S P P I A F Y L	L A A A A G V G G E I G I	I D G D V D R S N L	Q R Q I I H T T D E
UniRef90_S5T9S9	L G S P P V G L Y L	L A A A A G I G H M V I	S D F D E V D L S N L	Q R Q I A H T T K H
UniRef90_G4V7Z6	L G C P A A A V Y L	L A A A A G V G G T I G I	V D D D K V E L N N L	H R Q V A H S E S T
UniRef90_H5WRN5	L G S P P V A L Y L	L G T A G V G G R I T L	V D D D T V D L S N L	Q R Q I A H N L S R
UniRef90_Q7U4L4	L G S P P L L Y L	L A A A A G V G G R I G I	V D G D V E L S S N L	Q R Q V I H G M D W
UniRef90_W7UE96	L G A P A A M Y L	L A A A A G V G G T I G I	A D S D K V E L S S N L	Q R Q I I H T T N D
UniRef90_A6W0A3	L G N I A A T Y L	L A T S G V G H I L T L	A D G D Q L E E N S N L	P R Q V L Y T D E S Q
UniRef90_Q2SEW5	L G S P P L G L Y L	L A A A A G V G G I L G I	V D G D V V E E S N L	Q R Q V L Y T V D D S
UniRef90_K9H4F5	L G S P P M G L Y L	L A A A A G V G G T I G I	V D D D T V D L S N L	Q R Q V M H D S G S
UniRef90_D5QAE0	L G S P P L A L Y L	L A A A A G V G G R I I G L	V D D D V D L T N L	Q R Q I A H V T A R
UniRef90_D3PSQ5	L G S P P V L M Y L	L A A A A G V G G R I I G L	V E M D R V D V S N L	Q R Q V L F D T P S
UniRef90_X4ZFG0	L G A P I A M Y L	L A A A A G V G G T I G I	V D F D F V D E T N L	Q R Q I I H G T R D
UniRef90_C6HUL7	L G S P P V A M Y L	L A A A A G V G G T I G I	I D M D V D V S N L	Q R Q I M H S Q A T
UniRef90_G0A5W5	L G S P P A A M Y L	L A A A A G V G G Q I T I	V D D D L V D T N L	Q R Q I A H G T T D
UniRef90_E6PMU8	L G S P P V A L Y L	L A S A G V G G R I T L	V D D D V D L T N L	Q R Q I A H T E A R
UniRef90_F1VTZ6	L G S P P A A L Y L	L A S A G T G G T I T L	A D H D K V D E L T N L	Q R Q I V H T T A R
UniRef90_I3U8Y9	L G S P P V A A Y L	L A S A G V G G R I V L	D D D Q V E L S S N L	Q R Q I I H N E T N
UniRef90_D7DSD7	L G S I V L Q Y L	L T S A G I G E I N F	L D Y Q D I V E L S S N L	H R Q V I H N E T N
UniRef90_K7QY94	L G V P V L Q Y L	L V A A G V G G R I V G I	V E M D R V E L S S N L	H R Q V L Y A T E D
UniRef90_D4ZJP5	L G C P L A L Y L	L A A A G V G G H I L G I	V D D D V V E E S S N L	Q R Q V L F S V D D
UniRef90_A6D6K8	L G T A A S S M Y I	L A G A G V G G R I I S I	A D D D D I E L S S N L	P R Q I T Y R S N E
UniRef90_UP10003B646C3	I G C P A V Q Y L	L A A A A G V G G R I I S I	D D D Q I E L S S N L	P R Q P L Y G T G D D
UniRef90_UP100036F2F34	L G S P P A A L Y L	L A A A A G V G G R I V L	A D F D R V A L T N L	Q R Q V I L Y R S E D
UniRef90_A6T318	L G S P P A A F Y L	L A S A G V G G T I T L	V D D D T V D L T N L	Q R Q I L H T T Q R
UniRef90_J9Z9B5	L G S P P V A L Y L	L A A A A G V G G H I G I	M D R V D L S S N L	Q R Q I I H R T E D
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UniRef90_A3SVF7	L G A P P V L Q Y L	L T A A G V G G T I G I	D D D V V E N A N I L	Q R Q V I L H K D S A R
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UniRef90_W4HG3V	L G A P P A L Q Y L	L A A A A G V G G T V G I	D D D V V E N A N I L	Q R Q V I L H D D A D
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UniRef90_K5YZF8	L G S P P L G L Y L	L A A A A G V G G T I G I	V D P D V V E L S S N L	Q R Q V I A H G V A D
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170            180            190            200

QUERY	UniRef90_W1IZ27	UniRef90_C6C935	UniRef90_B6EGN6	UniRef90_UP1000377B570	UniRef90_D0Z1Y4	UniRef90_U3C7W8	UniRef90_J4KE28	UniRef90_M1SKQ2	UniRef90_M1XN03	UniRef90_Q2Y400	UniRef90_B2V9F1	UniRef90_UP100047C495D	UniRef90_C1DI34	UniRef90_Q87GZ4	UniRef90_D4F3H3	UniRef90_D8IUX3	UniRef90_L0MD05	UniRef90_F5RF55	UniRef90_M0D4W6	UniRef90_Q0AHK6	UniRef90_W4GMI1	UniRef90_C3XB73	UniRef90_I2BAW2	UniRef90_E3BKK2	UniRef90_UP10002658EC1	UniRef90_D7N228	UniRef90_B3MLX7	UniRef90_UP1000375D4BE	UniRef90_C4SQ08	UniRef90_F5SZE1	UniRef90_C4UEV3	UniRef90_B0CC24	UniRef90_UP100047BB183	UniRef90_UP1000362DC0D	UniRef90_Q7PY41	UniRef90_D5CNX3	UniRef90_R6B4W3	UniRef90_D4I029	UniRef90_B3PJP6	UniRef90_UP10003B38F37	UniRef90_D0KZL0	UniRef90_Q02B12	UniRef90_Q55FS0	UniRef90_UP10003753F5A	UniRef90_UP1000472E260	UniRef90_E11FH3	UniRef90_E3HLM5	UniRef90_Q6F9S8	UniRef90_A4I2V9	UniRef90_N8QDV1	UniRef90_F9U5U5	UniRef90_E9V3J0	UniRef90_UP10003782485	UniRef90_UP100037A57C2	UniRef90_Q7M9D2	UniRef90_S5T9S9	UniRef90_G4V7Z6	UniRef90_H5WRN5	UniRef90_Q7U4L4	UniRef90_W7UE96	UniRef90_A6W0A3	UniRef90_Q2SEW5	UniRef90_K9H4F5	UniRef90_D5QAE0	UniRef90_D3PSQ5	UniRef90_X4ZFG0	UniRef90_C6HUL7	UniRef90_G0A5W5	UniRef90_E6PMU8	UniRef90_F1VTZ6	UniRef90_I3U8Y9	UniRef90_D7DSD7	UniRef90_K7QY94	UniRef90_D4ZJP5	UniRef90_A6D6K8	UniRef90_UP10003B646C3	UniRef90_UP100036F2F34	UniRef90_A6T318	UniRef90_J9Z9B5	UniRef90_UP100047B80D0	UniRef90_A3SVF7	UniRef90_A0A059KPX5	UniRef90_W4HG3V3	UniRef90_R4KEV9	UniRef90_K5YZF8	UniRef90_S9RU09	UniRef90_A0A031LPA5	UniRef90_B3E048	UniRef90_U1PAR1	UniRef90_UP10004791D16			
	T V F T Y Q D G E P C Y R C L S R L F G E A G V M A P L I G V G S L Q A M E A	S A F T Y Q P K E P C Y R C N S L T C V E T G V M A P L V G T I G S L Q A M E A	S V F T Y Q Q D E P C Y H C L S R T C V E A G V M A P L V G v i G S L Q A L E A	S V F T Y Q D N E P C Y S C Q A L T C V E A G V M S P V V G I G V T Q A L E A	S V F D P R G D Q P C Y S C F P Q C A A M G V F A P L V G v i G A M Q A A E A	S V F T Y Q D N E P C Y Q C Q T L S C V E A G V M S P V V G I G A V Q A M E A	S V F T Y H D C Q P C Y Q C Q T L S C V E A G V M A P L V G t i G S L Q A L E A	S V F T Y Q Q G E P C Y R C Q T L S C V E A G V M A P L V G t i G S L Q A L E A	S V F T W Q E G E P C Y R C Q T L S C V E A G V M A P L V G t i G S L Q A L E A	A V F T W Q E G E P C Y R C Q T L S C V E A G V M A P L V G t i G S L Q A L E A	T T F E A N E G G P C Y R C L F P E A P E P G T V P D C P G T V G C M Q A T E A	A V F D R H P D N P C Y H C L F P A G G E D Q D M R M C G V G I I G C M Q A A E T	T T F D Y R N K E P C Y R C L F P E C Q E A G L L G V V G G I M G T L Q A N E A	M T I I P G E G P C Y R C V F P E P P V Q G A V P T C S G V I G T L Q A V E A	S V F Y A K E G P C Y R C L Y P G C A E G G V L G V L P G G L L G V V Q A T E V	S V F T Y D D P Q P C Y Q C L S A S C V E A G V M A P V V G I I V G A V Q A M E T	C V F T Y Q P G E P C Y R C N A L S C V E A G V M S P L V G I I G A T Q A M E C	S V F D P Q D A S P C Y A C L F P P E R E M G V F S P L V G I I G T M Q A A E A	S V F T Y Q P G E P C Y R C N A L T C V E A G V M A P L V G t i G S L Q A M E A	A V F D R E P N A P C Y H C L F P E G G E M G V F A P L T G I I G T V Q A A E A	T T F T G E G P C Y R C L F P E A P E G A V P D C P G T V G A I Q A T E T	A A F D R Q S D S P C Y H C L F P D S G D M G V F S P L T G I I G C I Q A A E A	S V F N F Q G G P C Y R C C F P T C S E Q G V L G V V P G I I G S L Q A M E T	S V Y D P R D D S P C Y A C L F S E D A Q V G V F A P L V G I I G T M Q A A E A	S V F T Y G P G E P C Y R C N A L T C V E A G V M S P L V G I I G A L Q A M E A	L V F D Y T D D T P C Y Q C F S T C V E S G V M P P L V G I V G A T Q A M Q A	T V Y N H K T G P C Y R C V F P K P P P P E V L G P V T G V I G S M Q A L E V	A V Y R P D P D S P C Y A C L F D G C A L F G V F S P L V G I I G A T Q A A E A	T V Y C Y G N G P C Y R C L Y P V P P P E V L G A V T G T I G A M Q A L E A	L A L D P S R E H G C Y R C L Y G P E M E R L T C S N A G V I G P V Q A L E A	S V F T Y Q E N Q P C Y R C N A L T C V E A G V M A P L V G I I G N L Q A M E T	T V Y D P R Q D S P C Y R C L Y E D C S E S G V F A P M L A M I G G T Q A A E T	S V F T Y G D D E P C Y R C L S R T C V E A G V M A P L V G I I G S L Q A M E T	S V F N Y E G G P N Y R D L Y P E C A E G G V L G I L P G I I G I I Q A T E A	A F F M P A Q G C Y R C D T R Q C A E S S G V L A S T T A V I A S L Q A H H A	M T I L P D R G P C L A C L Y R N E P R E H G I L A P V P G V I G T L Q A V E A	T V Y N Y R G G P C Y R C L F P T P P P E V L G A I T G V I G A L Q A L E T	A V F D Y N D D A P C Y R C L F P E D S E T G V F A P L V G I I G T L Q A A E A	F T H L P G T A C Y R C F F K E P P P A G V V P T C S G M L G T I Q A A E A	S V F S W G N E E P C Y R C S R S C T E A G V V M A P L V G V I G S L Q A M E A	A V F N R D P Q S P C Y R C L Y E T C A A N G V L A P L V G V I G S M Q A L E A	T V F N Y K Q G P T R C L Y P N P K P D A M P N C P G I I G S L Q A N E V	T V F T R Q P E S P C Y R C L Y Q E C S E T G V L S P L V G M I G S L Q A S E A	T V F A Y E G G P C Y R C L Y P E C A E G G V L G I L P G T I G L I Q A T E T	T C Y N Y N G P C Y R C C I F P T P P P E V L G L P I V G V I G S L Q A L E V	T V Y M R S V L S P C Y H C L Y P Q C G E A G V F G A V T G V M G T L Q A T E A	S T F H P A R G G P C Y H C L Y P Q C G E A G V F G A V T G V M G T L Q A T E A	T V F A P P Q G P C Y R C L Y P T P P E G G V L G V L P A V G V I G S L Q A T E T	S V Y D R D D N A P C Y H C L F P N C A T M G V F A P V V G I I G S M Q A A E A	F M D S D S A C Y E C C L F M R C A E S G V V L A T T P V V M A S L Q A H H A	S V Y G Y R G G P C Y R C L F P Q P P P Q E V M G P L P G M I G C L Q A L E V	F M V E G D S A C Y E C C L F P R C A D S G V V L A T T P N V M A S L Q A H H A	T A F S G R P G G P C Y Q C L Y P Q C S A N G V V L A P V V G I I G S I Q A T E A	F A P T L T D D A P C Y R C M V P S C A E G G V F G V L V G I I G C S I Q V N E A	S V F N L E E G P T Y T R C L Y P E P S E L E A C G V V P G L T T G C F M A N E V	S V F D A R V G P C Y R C M V P S C A E G G V F G V L V P G I I G S L Q A L E A	M T I K P G E S A C Y Q C V F D Q P P P A G S I I P T C I A G M L G T I Q A A E A	S V F D R D N T C P C Y R C N C L Y P R C S D N G V V L A P I T G I I G S M Q A L E A	T V Y L T K R I L P C F R C L Y P V P P E A G V F G V V P G I I G T M Q A A E V	S V V Y T R D A K A P C Y A C V F P A C A T M G V F A P L V G I I G S M Q A A E A	S V F N H T P E S P N Y R D Q V P S C A E A G V M G V M P G L I G L I Q A T E A	M T Y I P P G K G P C Y R C I F E A P P E A G V V I G A M A G I I G S M Q A L E A	V S F L Y H Q H T P C Y E C L Y P S C C N E S G V I I A P V V G L L G V Y Q A L E A	S V F H H E G G P C Y R C M V P S C A E E G G V L G V L P A M I A G I I Q A T E A	S T F A T H R G G P C Y R C I Y G D I P P A G S A P T C P G V V G S L Q A T E V	S T F R P H D G G P C Y R C M V P S C A Q A G V F G A V T G V M G T L Q A T E V	S V F H H Q G G P C Y R C L F P Q P P E A G V F G V L V P G I I G S L M A T E A	S V F Y A Q E G A C Y R C L Y P E P P E G G I I L G V L P G I I G C I Q A N E T	T V L E G H T S A P C Y R C L Y P E A P E A G V G L V G L V A G T I G T L Q A A E V	S V F T P R D N S P C Y R C L Y Q S D G E N G V V I A P I T G I I G S T Q A L E A	S V F D P R E R A P C Y A C L F P P D V P M G V F A P L V G I I V G S L Q A A E A	S V F D R D P A S P C Y A C D D I N C A T M G V F A P L V G I I I G S M Q A A E A	T V F T R H P D S P C Y A C Q T D N C A T M G V F A P L V G I I I G S V V E A A E A	S T I V P N E T P C L R C I F K N K D K V P L G F T A G V V G S I Q V G E A	A V F H H P G M G P C Y R C L F P K C A E A G V F G V L P G V V G S L M A T E A	S V F N Y Q A G P C Y R C L Y P E C A E E G G V L G V L P S I I I A S I Q A T E A	A V F Q F K L A T P C Y H C L Y P M K C S E S S V M G P V V G M M G V Y Q A L E A	UniRef90_UP10003B646C3	G S F Y G H P D A P C Y R C F C D T C A D Q G V L G L A P L C L Y P G S F G A M E A	A V Y R S S D R P G P C Y R C V F P T C S E T G V L G P L T G V V G S L Q A V E T	S V F D R R D E Q P C Y S C L F P N C G T M G V F A P L V G I I V G S T Q A A E A	M S I F P Q G S A C Y R C L F R D P P E A G V I L G V I A G V I G T I Q A T E V	S V F R R G G E A P C Y R C A A P N C S E V G V L G V L P G V I G M L Q A T E A	S I F D P S K G A P C Y Q C F P Q A P A H V G P L P G V I G A M M A S E A	A V W D R T G D P C Y A C L F P P T A E M G V F A P L V G I I G T M Q A A E A	S V F D P A R G A P C Y Q C V F P E P P E A G V I L G V I V G S M M A V E A	T T Y I P D N G T P C Y R C I F Q S P P E A G V I L G M G G I I G T L Q A T E V	S T F K P H T G G P C Y R C L Y P E P P E A G V L G V L P G V I M G T L Q A T E V	S L F H P A E D G P C Y A C V F P N C S E A G V V G L P G V I V G S M M A V E A	F M V D G E S A C Y E C L F P R C A D S G V L A T T P N L M A S M Q A H H A	T V F W A E K G P C Y R C L Y P E P P E P G M V P S C P G V I V G V L Q A L E T	T T L V P D G P C Y R C L Y P E A P E P G T V P D C P G T V G C L Q A T E V	S V F T L R D C Y P E P P S Q A S C A E A G V F G V L P G V I G T M M A T E T

210      220      230      240

QUERY				
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UniRef90_S3CSN5	T T L T P K E L E R Y S R Q I Q L P D L G A Q G Q Q K A L L K T T A L V S G V G G G	
UniRef90_UPI0002555E7A	F T E E Q M Q R Y G R Q M I V P N I G I V I Q G Q Q L N L K N S V L I I G A G G	
UniRef90_UPI0002D9F084	K L D N D E L L R Y S R H I I L L R E V G V K G Q K K L L K S A K V L I A G L G G	
UniRef90_R5Q216	D F S E A E L H R Y S R H I I L L L A E V G A T T G Q A K L R A R V L V V G A G G	
UniRef90_L8LXK2	M N D Q E R R E R L S R Q M R I K E L G E D G E K R I L K T R F L V I G A G G	
UniRef90_U1NG16	T T L T P K E L E R Y S R Q I Q L P D L G A Q G Q Q K A L L K T T A L V S G V G G G	
UniRef90_G7CN81	A E L T R E E V A R Y S R H I I I P D V G V E G Q Q K R L L K N A R V L V I G A G G	
UniRef90_W4RLR3	E R Y S R Q T L L F P P I G K I I G Q E K I I R S K H V L M V G A G A	
UniRef90_UPI0004761F2E	S D P E L D R Y A R H I I L R E I G P G Q Q K A L L K R A K V L V V G A G G	
UniRef90_A1K9B5	M N D D Q L L R Y S R H I I L P E I G V E G Q E A I I L A R V L V V V G A G G	
UniRef90_A0A059G9B5	D I E R H K R H I I L L K E I I G G P G V Q K L L R G A T V S M V G A G A	
UniRef90_UPI00037BFA04	D R E R Y S R Q M I L F A P I G E E G Q E K I I K N S A V L I V G C G A G	
UniRef90_C8PVB4	T E L T D A E M L R Y A R Q I L E G W D I I E A Q T R I I K N S S C H S I I I G M G G	
UniRef90_Q21N52	M N D D Q L L R Y S R H I I M L P Q V D I I A G Q E R I I I C H G R V L V V V G V G G	
UniRef90_D2TTG6	M N D D Q L L R Y S R H I I M L P Q V D I I A G Q E R I I I C H G R V L V V V G V G G	
UniRef90_W9DWZ0	M N D R D F M R Y S R Q I I L L G D I I A I E G Q Q K A L L E S R A L I I G L G G	
UniRef90_M3HQK5	L N K K E L E K F S R Q I I L L K N I I G A V G Q Q K K I I L S S K V L I V G M G G	
UniRef90_H3AHF7	D E Y K R Y G R Q M I V P Q F G L T S Q I K L K N S K I I L V V G A G G	
UniRef90_UPI00047AEA41	T S L T N E D I L R Y S R Q I I F S S I I G K D G Q R R I I S D K H V L I I G V G A	
UniRef90_A5CW14	M N D Q E L L R Y S R Q I I L L P Q I I S I K G Q Q S I I K D S T L L L I I G M G G	
UniRef90_UPI0002D49AED	S E M N D E A L L R Y S R Q I I M L E E Q I I I A G Q E R I I I L A G H A L V I G A G G	
UniRef90_W7DKF0	M D D D S Q L I R Y S R H I I M L P Q I I D L K G Q R T I I L N S K I I L I I G C G G	
UniRef90_W4Z9V3	T H L D N A S I K R Y S R Q I I L L P E I I G V K G Q V F I I S P V S L A T N G N G G	
UniRef90_H2MSK7	S L S N E D L M R Y S R Q I I L L P D I I G V Q G Q L K L I S Q T S V L V V V G C G G	
UniRef90_E6U041	N R Y S R Q M I L F S P I I G E E G Q K S I I R S K H V L V V G T G A	
UniRef90_Q0A9H8	L D D A S R A R Y A R H I R M P E I V G E A G Q L R L G E S R V V V L V G A G G	
UniRef90_E3BIB2	L S D N Q F V R F Q R Q I C L E E I I G E G G Q Q K K L L K D S T V L I I I G C G G	
UniRef90_A0A031JWZ1	L T A D R L G R F A R H I V L P E V V G G G A G Q V A L S E A H V V L V V G C G G	
UniRef90_F0LQJ8	L S D E Q F V R Y Q R Q V A L I P D V G E C G Q H K L L N G R I I L I V G C G G	
UniRef90_UPI0003052172	S L S P A R E L D R F A R H I V L P E V G E G Q Q K L L F N S R V L I I V G L G G	
UniRef90_R9NLS2	F S D S D F M R Y S R Q I I L L E E F G V D T Q Q K L L F N S R V L I I V G L G G	
UniRef90_A4SFW4	Q L T A E E R A R Y N R H I A L S E I G E S G Q E K I I L S S K V L I I V G A G G	
UniRef90_S7Q3J7	M T P E Q I I E R Y K R H I F L V K E I I G H G Q Q K K I I L D A H V L I I V G A G A	
UniRef90_UPI0003B48239	L T T N E L A R Y Q R H I T L I P G F G K A G Q E K I I K S A Q V L V V V G S G G	
UniRef90_L8K032	D R Y S R Q Q L F K Q I I G S K G Q E K I I G N K H V L I I V G V G A	
UniRef90_UPI00034A95CE	A P L S R Q E L E R Y H R N A L V P E V G L V G Q Q R I I R A A R I I L L V V G A G G	
UniRef90_UPI00047D3F16	D F T R Y S R Q M I L F S P I I G E E G Q Q K K I I L K G H V L I I V G M G A	
UniRef90_UPI000474B7E1	UniRef90_K6DT57 UniRef90_E1JXZ1 UniRef90_E6PCE3 UniRef90_D7FVG1 UniRef90_I8UFY6 UniRef90_B7S149	E L N Q D E V R R Y S R H I I L P D V G V K G Q R K L L K A S S S V L A V G T G G

	50	60	70	80
UniRef90_M5JIT7	L G S A T A E	L T R A G V G K L T I V D R D Y V D W T N L Q R Q T L L Y C E Q D		
UniRef90_UPI00046FCBF1	L G C P A S E T	L V R A G L G H L H L I D D D E I V E A S N L L Q R Q T L L F L P D D		
UniRef90_UPI0004782F2D	L G C P A A L Y	L A A A G V G T L L T L V D D D R V D L T N L Q R Q I A H A T A A		
UniRef90_V4XPY5	L G A P V I Q Y	L A A A G V G T L L E L V D D D V E R S N L L Q R Q V I H G D A D		
UniRef90_D8KAT0	L G S P I A L Y	L A A G A G V G R L L T L V D P D E V E L S N L L Q R Q I L H D G N V		
UniRef90_B7V0K9	L G S P V A L Y	L A A A G G V G E L L H L A D F D T V D L T N L Q R Q V I H D G T S		
UniRef90_UPI00036A36FF	L G C P V A L Y	L A S A A G F G Y I E I W D E D N I D I T N L N R Q I G Q S K K		
UniRef90_UPI000424CD70	L G T G I A E T	L V R S G I G H I T I A D R D Y V E W S N L L Q R Q Q L Y T E A T D		
UniRef90_I6ZYL5	L G S P I L L Y	L A A A G V G T L L G I I D S D I V D L S N L L Q R Q I I H F T D D		
UniRef90_A0A017SG50	L G C P A A Q Y	L A G A G G V G T L L G L V D D G D T V E F S N L L H R Q V L H R R R T D		
UniRef90_F4CFC9	L G C P T L Q Y	L A T A G V G H I I G I I D G D L V A V H N L H R Q I I H S T S D		
UniRef90_UPI000287BF47	L G S P T A L Y	L A A A G V G H I I I A D F D Q V E L S N L L Q R Q V I I H T D D R		
UniRef90_Q0FQ82	L G A P A L Q Y	L A A A G V G T I I G V V D D D V E N A N L L Q R Q V I I H T D D R		
UniRef90_V2KID0	L G A A A L P Y	L A S A A G V G T I I V V D N D D V D L T N L Q R Q I I L F T H N D		
UniRef90_A0A023RSM8	L G S P L S L Y	L A G A G G V G T L L W L A D G D T L D S S N L L P R Q I I L F D G E G		
UniRef90_UPI0004680136	L G C P V L Q Y	L A A A G V G T I I G I V D D D V E L S N L L H R Q I I L Y N H T D		
UniRef90_F8D121	L G T G N A E A L	V R A G G V G K I I T I V D R D Y V E W S N L L Q R Q Q L Y G E A D D		
UniRef90_Q2T1H7	L G S P A A M Y	L A A A G V G T I I T L A D A D T V D L T N L Q R Q I I L H V S A S D		
UniRef90_J9R2Y2	L G C P V L L Q Y	L A A A G V G T I I G I I D P D V V S I S N L L Q R Q I I L F T H N D		
UniRef90_X0W716	L G S P V L M Y	L V A A G V G H I V G V V D A D A V T L S N L L Q R Q I I V H G T A T D		
UniRef90_D7W101	L G C P S A Q Y	L T S S G G I G T I I G L A D N D T V T S E S N L L H R Q I I L Y A P E D		
UniRef90_UPI0004684270	L G S P A A M Y	L A A S G G V G K L I I C D N D E V D L T N L Q R Q I I L H S T G R		
UniRef90_I2GVL3	L G S P S L P Y	L V G A G G V G H I I G I V D N D V V D S S N L L H R Q V V L H D T T K		
UniRef90_L0DZ91	L G S P P I A A Y	L A A A G V G R L I I L V D F D E V D L T N L Q R Q I I L H G Q A D D		
UniRef90_U1PRA0	L G S P V L Q Y	L A A A G V G R L I I V D D D R V E R S N L L Q R Q I I V H R D A D		
UniRef90_UPI0003B6CD89	L G S P P V G Y	L A A A A G V G T L L G I I D D D V V D L S N L L Q R Q I I L H G T S D D		
UniRef90_UPI0003B347A0	L G S P P L L Y	L A S A G V G T L L G V I I D D D R V D L S N L L Q R Q V I I H T T A D D		
UniRef90_E6PYT4	L G S P P V A L Y	L A A A G V G T L L G L V D A D L V D L S N L L Q R Q V I I H A T P D		
UniRef90_D3NRH9	L G A P P L L Y	L A A A A G V G T I I G I V D D D T V D L S N L L Q R Q V I I H D E S T		
UniRef90_M4F3A6	L G S P A P L L Y	L A A A C G L G R L I I D H D V V E L N N M H R Q I I L H T E A F		
UniRef90_UPI0003638E6D	L G C P V G L Y	L A S A A G F G Y I E I W D E D I I I D T T N L L N R Q I I A H K N N R		
UniRef90_UPI000364D85C	L G S P A P L L Y	L A A A A G V G T I I G I V D D D V V D L T N L L H R Q V I I H S D A D D		
UniRef90_Q7MB92	L G A P A S L Y	L A G A G G V G T I I Y L I A D D D H L I S N L Q R Q I I L Y R T E D D		
UniRef90_UPI00037EDC9F	L G C P V A L Y	L A S A A G F G Y I E I Y D D D N I D L T N L L N R Q I I A H K N N T		
UniRef90_D01386	L G T A A G L Y	L A G A G G L G Q L V L A D N D C V E R S N L L P R Q V A Y R E T T D		
UniRef90_UPI000376412C	L G S P P V A A Y	L L A A A G V G R L I I T L V D P D H V E A S N L L Q R Q I I L H G E A D D		
UniRef90_W0DS45	L G S P P V A L Y	L L A S A G V G T L L G T I I F Q D V E E L S N L L Q R Q I I I H N E Q R		
UniRef90_B3EN73	L G A P A A L Y	C Y L A A A A G I G T I I G I V D A D A V E I I S N L L Q R Q I I I H F T D D D		
UniRef90_W6EXT9	L G S P P V A L Y	L A A A A G V G R L I I G L V D G D M V D E L S N L L Q R Q I I I H T T A R		
UniRef90_A4F8M7	L G S P P A L L Y	L A A A A G V G T L L G I V E F D E V D E S N L L H R Q V I I H G Q S D D		
UniRef90_UPI0002893E06	L G T G S A E G L	V R A G I G K L I I V D R D Y V E W T N L L Q R Q Q L Y S E E D D		
UniRef90_D2UAL6	L G S P A G V Y	L A A A A G V G H I R I I A D D D L V E R S N L L Q R Q I I L H S D A R R		
UniRef90_B3LSM6	L G C P A L P Y	L A G A G G V G Q I I G I V D N D V V E T S N L L H R Q V L H D S S R R		
UniRef90_C7LY70	L S S P P A A L Y	L A A A A G V G T I I G I V D M D V V D A S N L L Q R Q V L H T L D R R		
UniRef90_M8D7A5	L G T V S A N H M	V R A G V G F V R L I I D R D F V E P S N L L Q R Q Q M L Y D E D R S		
UniRef90_Q7NQ82	L G S P P A A L Y	L A S A G V G R I I T I V D D D A V E L S N L L Q R Q I A H D T A S		
UniRef90_UPI0004765E23	L G C P V S E T	L A R A G V G H I H I I D D D L I E A S N L L Q R Q T L F T H E D		
UniRef90_R7C6X7	L G S P A I L Y	L A A S G V G T I I G I V D G D C V E L S N L L Q R Q I I I H D M D S S		
UniRef90_S3CSN5	L G C P S S V Y	L A G A G G I G T L L G L V D G D I V E L S N L L H R Q I I L H S T S S		
UniRef90_UPI0002555E7A	L G A P P L A Q Y	L A A A A G V G T I I G L V D F D K V D T T N L L Q R Q V L H G T R D R		
UniRef90_UPI0002D9F084	L G S P P L A L Y	L A A A A G V G T I I G I V D H D T L E L S N L L Q R Q Q V A H D T D R		
UniRef90_R5Q216	L G S P P A L L Y	L A S S G A S H I I T V V D P D E V S E N N L L S R Q I I L H D G S S		
UniRef90_L8LXK2	L G G T V A L Y	A V A G I G K L I I L V R G G G L R L D D M N R Q I I L M T D D W		
UniRef90_U1NG16	L G A P V I Q Y	L A A A A G V G H I R I I A D D D L V E R S N L L Q R Q V I I H G D G D		
UniRef90_G7CN81	L G S P A P L L Y	L A A A A G V G T I I G I V D F D V D E S N L L Q R Q Q V I I H G Q A D D		
UniRef90_W4RLL3	L G S G N A E L L	V R A G V G R L I I T I V D R D Y V E A S N L L Q R Q Q Q L Y T E E D D		
UniRef90_UPI0004761F2E	L G A P V C L Y	L A A A A G V G R I I T V A D D D R V S L S N L L Q R Q Q V I I F R S S D		
UniRef90_A1K9B5	L G S P P A A M Y	L A A A A G V G T L L V L A D G D T V D L T N L L Q R Q I I L H S E T G D		
UniRef90_A0A059G9B5	L G G P P C A L Y	L A A A G I G R L I E I W D D D V D R S N L L Q R Q I I Q F G E G D D		
UniRef90_UPI00037BFA04	L G T V A A N Q L	V R A G V G H V R I I V D R D F V E T S N L L Q R Q Q M L F T E E D D		
UniRef90_C8PVB4	L G C P P L A E T L	C Y L A R A G I G K M L I I D D D T I D E S N L L Q R Q Q S L F T P N Y		
UniRef90_Q21N52	L G S P P A A L Y	L A A S G V G T L L V L V D D D T V E I S N L L Q R Q I A H T E H R		
UniRef90_D2TTG6	L G S P T A L Y	L A A A A G V G T L L V L A D D D A V H I S N L L Q R Q I I L F T T E D D		
UniRef90_W9DWZ0	L G C P V A E F L	T R S G I G T L L G I A D H D T V S L S N L L H R Q G L Y N E K D M		
UniRef90_M3HQK5	L G S P P A L L Y	S A S G I G T I I G I V D D D T V D T S N L L H R Q V I I H N T E M		
UniRef90_H3AHF7	L G S G P L P W F I	I M I N T G R L L G L D Y D E V E I S N L L H R Q I I L H A E V R		
UniRef90_UPI00047AEA41	L G S A C A E A L	V R A G I G K L I I V D R D Y V E E W S N L L Q R Q Q Q L Y T E E D D		
UniRef90_A5CW14	L G S P P S A L Y	L A S A G I V G H I I I A D S D K V E E L S N L L Q R Q I I I H S T D D D		
UniRef90_UPI0002D49AED	L G S P P V A L Y	L A A A A G V G R L I I S I A D D D I V E L S N L L Q R Q Q V A H G M A D D		
UniRef90_W7DKF0	L G C A V I P L L	T C V D D D K V D D L S N L L Q R Q Q T H Y I H A D		
UniRef90_W4Z9V3	L G C P P A A I Y	L A A A A G I G R L I I T C V D D D T V H I S N L L Q R Q I I L F H T H Q		
UniRef90_H2MSK7	L G C P P A A Q Y	L A A A A G I G R L I I T V D R D Y V E F S N L L Q R Q Q Q L Y T E K D		
UniRef90_E6U041	L G T G N A E N L	V R A G I V G T I I T V D R D Y V E F S N L L Q R Q I I L H T D D R		
UniRef90_Q0A9H8	L G S P P A A L Y	L A A A A G V G T L L V L V D H D V V D R S N L L Q R Q I I L H T D D R		
UniRef90_E3BIB2	L G C A A S L Y	L A S A G I G K L I I V D D D L I E I S N L L H R Q I A Y L D S D D		
UniRef90_A0A031JWZ1	L G S P P V L Q Y	L A A A A G I G R L I T L V D D D V V D I V S N L L Q R Q Q T I Y T P S D Q		
UniRef90_F0LQJ8	L G T A A A Q Y	L A A A A G V G S L V I A D D D C V E L S N L L H R Q L A Y R M T Q		
UniRef90_UPI0003052172	L G S P P A L Q Y	L A A S G I V G R L I A V D D D V V D V S N L L Q R Q Q T I F T T R D		
UniRef90_R9NLS2	L G S P P A A L Y	L A A A A G V G T L L L A D D D T V H I S N L L Q R Q I I L F H T H Q		
UniRef90_A4SFW4	L G S P P A A F Y	L A A A A G V G G I G M D D D Q V E C S N L L Q R Q I I L H T T A Q R		
UniRef90_S7Q3J7	L G C P P A L Q Y	L A A S G I G R I I G I V D H D V V E L S N L L H R Q I I L H T E Q R		
UniRef90_UPI0003B48239	L G G V P A A R I L	L A A S G V G R L I T F D D K V D V S N L L Q R Q T Q F S S R D		
UniRef90_L8K032	L G S P P V L L Y	L A A A A G V G G I I V D F D Q V D E T N L L Q R Q Q V L F R Q Q D D		
UniRef90_UPI00034A95CE	L L G S A G A E A F	V R A G I G K L I I D R D Y V E E W S N L L Q R Q Q Q L Y N E N D		
UniRef90_UPI00047D3F16	L G S P P A G L Y	L A A A A G V G G I I D D D E V D L S N L L Q R Q V I I H T T S A		
UniRef90_UPI000474B7E1	L G C P A A L Y	L A A A A G V G G I I I D R D Y V E V E W S N L L Q R Q Q Q L Y T E E D D		
UniRef90_K6DT57	L G T A A L A N H	V R A G I G H I R F I D R D Y V E V E W S N L L Q R Q Q M L F D E D D D		
UniRef90_E1JXZ1	L G S P P V A Y Y	L A A A A G V G V I L D C D V V D R S N L L Q R Q I I L H A T D D		
UniRef90_E6PCE3	L G A P P V L A Y	L A A A A G V G G R I I G V I I D D D L V D E S N L L Q R Q I I L F E Q A D		
UniRef90_D7FVG1	L G S P P A L L Y	L A A A A G V G G R L I I V D D D V D E S N L L Q R Q Q V I I H G T A T		
UniRef90_I8UFY6	L G T G N A E L	V R A G I G H I V T I A D R D Y V E V E W S N L L Q R Q Q Q L F S E E D D		
UniRef90_B7S149	L G C P P A A L Y	L A A A A G V G G I I L I A D G D E V E L S N L L Q R Q Q V A H S D A D		

	90	100	110	120
UniRef90_M5JIT7	S G L P K A I A A K Q R L E A I N H D V E I L R A F V M D A D D E P F V S I F E Q			
UniRef90_UP100046FCBF1	I G K S K A L A A A Q M L T C I N P L I R A R G T V V A R L S E D N A Y E E L L D M			
UniRef90_UP10004782F2D	V G D Y K V A S A A R T L A T L N P E V E V V Q I A E R I I A G E R L Q A L V E A D			
UniRef90_V4XPY5	V G E P K V E S A A R Y V D R L N P D I E T A T H E T R L D A G N A R E L I A D			
UniRef90_D8KAT0	I G L P K V E S A R R R L Q A L L N P E V E V R A I A A R L L E G K G L E A A A V A Q			
UniRef90_B7V0K9	V G V G K V E S A M R R L L G A L L N P Q I R L V S H S A A L L D K D S L D A A V A A K			
UniRef90_UP100036A36FF	I G R N K A E N L A S E C L K I N P N I H V V G R V I D V R V D E L E E L V Q N			
UniRef90_UP1000424CD70	E R M P K C A M A A K K R L S E I N S T V E V V G R V I D V R V D E L E E L V Q N			
UniRef90_I6ZYL5	L D K P K V E S A A E K I S R V N P D V K V I P Y K V R L D S S N I E E I I E D			
UniRef90_A0A1017SG50	V G K F K V D S A I E Y L E E L N H H S T Y I P H R A H L T P Q D A P E I F K D Q			
UniRef90_F4FCF9	I G H S K A S V A V K K L L K Q L Q P A I Q L K S H P F S L A E N A L D I I I S Q			
UniRef90_UP1000287BF47	I G D D K V N S A K A K L L E L N P N I T V T V V N E I M H S D N L A S S L I K D			
UniRef90_Q0FQ82	I G M P K V F S A Q A A M E A Q N P Y V E V R P Y H R R L D A E S A A L L F A E			
UniRef90_V2KID0	V G R P K V E S A R E G M L R I N P E I V D V R L V P A R V G D S E L D V L V R D			
UniRef90_A0A023RSM8	L R R S K A E L A R E R L A A H N P Y V E L I A I N Q R L D G T S L P G F V A E			
UniRef90_UP10004680136	I G L P K C A K T A A A K L K L L N P H V G S I A Y H E R F T A D N A I A I C Q D			
UniRef90_F8D121	E H I P K A I A A A K R R L E E V N S D V M I D A I V G D V T A Q E L E E L I S E H			
UniRef90_Q2T1H7	V G R K K V E S G R D A L A Q L N P D V K V N A L A E R V V D D A W L N A H V P H			
UniRef90_J9R2Y2	I G K P K V E A A Q K H L L A L L N P F I K I I E G Y N E A L N K E N A L S L F E K			
UniRef90_X0W716	L G R P K A E S A R G R L L D L N P G V R I I T H D E A F T S Q T A L R I A S G			
UniRef90_D7W101	I G K S K V D V A A K K T L H Q Q P S V S V K I I P F N F L V I T S E N V M D L I S E			
UniRef90_UP10004684270	I G T T K T N S A K K T L A G I I N P E V N V I T L N E R M D E E K L L R V V A N			
UniRef90_I2GVL3	V G V F K C E S A K E Q L L S K L L N P N I K I D T Y S V R L D A F N A F E I F K D Q			
UniRef90_L0DZ91	I G R P K V D S A E E S R R R L N P G C R I D K I P R G L E Q P E L E T L C A G D			
UniRef90_U1PRA0	V G R P K V E S A A E T V R A L N P D V T V D V H E T R L T T E T V G L L D D			
UniRef90_UP10003B6C89	I G I P K T K S A E A A I G E M N P D V K V V P Y N E R I I T S E N A F Q I I I A Q			
UniRef90_UP10003B347A0	I D K A K T E S A A E H L R A L N P N E V T L N T H D A R L L S A A N A A E I I I A Q			
UniRef90_E6PYT4	V G T K I D S A R K R L T A L H P A L H V V A H D T M L T S A N A R E I I I A D			
UniRef90_D3NRH9	L G L P K V E S A A A R I H A L N P D V R V E A H R M R L L S R D N A M E L I I G G			
UniRef90_M4F3A6	I G H P K V K S A A A A C R S I I N S T I K I I D E Y V E A L L R T S N A L E L L S Q			
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UniRef90_UP100037EDC9F	I G Y N K A E N L V K E C L K I N P N I I I K S N K K F D R S C D I I S N			
UniRef90_D0I386	I L G S H K A K A L A S Q L R A L N G S I Q C R A V T R R L S D T A L S L E V S L			
UniRef90_UP1000376412C	L G E D K V A S A A R R I A A L N S A I C R V A T R A E Q L L S A T A M R E L F A G			
UniRef90_W0DS45	I G L N K A T S A K Q S I E L L N K D I L I N T I T H R L N D D E L A Q I I I D G			
UniRef90_B3EN73	I I G K A K V A S A R E K M E A I I N P D V K V I V E P L R A F V N A S N I S D I I I D G			
UniRef90_W6EXT9	V N E P K V E S A A A A I R E E L N P D V T V D V T Y Y E L V D A N N I A G L I E F A D			
UniRef90_A4F8M7	L G R P K A E S A R D S I I A E V N P F V K V N L H Q T H L S S E N A L D I F R D			
UniRef90_UP10002893E06	N R L P K C A V A A K E R L L K K I N S E V D I I H A H V M D V S I Q E I E D I I I D S			
UniRef90_D2UAL6	I I G Q P K V D S A A T A L L A A L N P G V Q V E A V R E R V T A D N V E R I L L Q D			
UniRef90_B3LSM6	V G M L K C E S A R Q Y I I T K L N P H I V N V V T Y P V R V L N S S N A F D I F K G			
UniRef90_C7LY70	V G M A K V D S A E A A I A Q L N P D V R V V K H P V R V L D A D N V L E I L S G			
UniRef90_M8D7A5	Q H L P K A I S A H A K L T R I N S E V A I I E P V V V A D L T A Y N A E S L L A D			
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UniRef90_UP10004765E23	I I G K N K A K T A C E A L H S I I N P H V S L S Y A D Q R L T M D N A A K L L L V			
UniRef90_R5Q216	I I G L V E K A E S A G E R I R K K L N P D V K L H L H A E R V T P E N I M A L I I E P			
UniRef90_L8LXK2	V G K S R V A K A K E T L S Q I I N P D V E V E A L A E Y I T A D N V D A L V Q R			
UniRef90_U1NG16	V G R P K V Q S A A A D F V V A D L N P D V T V E P H E R R L V P D N A A D L V A D			
UniRef90_G7CN81	V G R P K A E S A R D T I R A I N P F V D V R L L H Q F R L D R S N A V D L F S E			
UniRef90_W4RLL3	E K L L P K A A A A E K R L R A I I N S D V E I I S A H I A D A T P E K L A E L L V D G			
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UniRef90_A1K9B5	I I G R P K V E S G R D T L L A R L N P L T R V E A L A Q R L E G A A L D D Q V A L			
UniRef90_A0A059G9B5	V G Q P K A E T L A T S L Q A A H P D T Q V S W H R H R W S E S H P L A			
UniRef90_UP100037BFA04	H H M P K A I A A K S R L L E E M N S G V E I I E G I V T D V N A G S I E N L L E N			
UniRef90_C8PVB4	I I G Q S K A L V A K A K L N Q I I N A F C D V I A I Q A R L T A D N Y Q Q M V E			
UniRef90_Q21N52	I I G E N K A E S A A K A I I A D L N T S Q V E V Y T S R L S E H A L G E Q I Q R			
UniRef90_D2TTG6	L I A R P K S Q A A Q Q R L L S R L N P Q I E L V A L P Q R L N G D A L N Q A V A Q			
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UniRef90_M3HQK5	V G E L K C I S A Q K Y I I K K L N P H V Q V D V Y P V V R L S N D N A F D I I I S K			
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UniRef90_A5CW14	I I G R T K V N S A K D K I I L A I V N P N I K V T T I I G K L L S Q D N L L N N W V A K			
UniRef90_UP10002D49AED	I I L G R A K A E S A R E A A L S V N P D C G I R T F T E R L Q G G G L D A A V A E			
UniRef90_W7DKF0	I I I G K Y K A E V M K A F I I Q K Q I N Q D V Q V H T L T Q R L I V D D L I L L C K Q			
UniRef90_W4Z9V3	V G W S K S D S I K S S I K S L N S S S V Q C I A Y H L Q L D R N N A M D I I I R Q			
UniRef90_H2MSK7	Q G Q A K A L S A A R S V I R L L N S S G V E C I P Y H L Q L S P E N A L Q L V Q Q			
UniRef90_E6U041	N R I P K A I A A K N R L K E V N S D S V T I H A H V L D V T K E E L E Q L I I D G			
UniRef90_Q0A9H8	V G Q P K T E S G R Q A V A A L N P Q V R V E A V Q A R L N S E N I E A V L A G			
UniRef90_E3BIB2	Q G V S K V D A L S K R L S A I I N P Q I D I R L V K K R R M S E E Q M Q L E T M M			
UniRef90_A0A031JWZ1	I I G R P K A E A A A E W V R R F D L G L K V D P V V A R L G D D N T R D V L S G			
UniRef90_F0LQJ8	I I L T L P K V A A L A Q T L A S I I N P D C R V R T V Q R K M A G S V L D L E V A H			
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UniRef90_R9NLS2	S G Q R K T E I A R Q H L L S L N P T L I E V V T L D Q S M N T D T L K Q A I K L			
UniRef90_A4SFW4	I I I G T K K V D S A Q E R L Q A L R P S L I I H S Y P I R L T A G N S L E I I I A S S			
UniRef90_S7Q3J7	V G M P K A E S A A E A I R T L L N S N S K I K I N I Y T E A L S A L N A L D I I I S S			
UniRef90_UP10003B48239	V G D W K V A A L F R G L S A I I N P D I R I D V V Q R E R W T P D A T L A E			
UniRef90_L8K032	I I G I S K A I I A R Q R Q I K E R L I N P D I V S V R T Y D T R I D A S N I G K I I A P			
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UniRef90_UP100047D3F16	V G T P K A D S A A T A I T G L L N P G V E V I A Q R M R V T G D N A L E L L D G			
UniRef90_UP1000474B7E1	N K I P K A V A A A Q K H L Q T I I N S T D I Q I E G I V G D F S I E L E E M V K D			
UniRef90_K6DT57	V T G P K A I A A K N K N T K I I N S D I K I E A L V G D A S P K N I D E L I I N G			
UniRef90_E1JXZ1	I I G R P K V V S A K E K L E R L I N P D I V S V R T Y D T R I D A S N I G K I I A P			
UniRef90_E6PC3E	I I G R P K A E V S A E R L L H A L N P Q I A I D A L Q L R F D A S N A R E L V R L			
UniRef90_D7FVG1	L G K P K V D S A R D R M L D V N P H I K V E T F H E Q L T S E N A L R I C C G G			
UniRef90_I8UFY6	Y R M P K A V A A R E R L L E L I S D V R I V E G Q V M D V G P E E L R E L L T E F			
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130            140            150            160

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UniRef90_UP10004782F2D	A D V V L   D C S D N F A T R H A   I N R A C   C V A A A R P   L V S G A A V R F D G Q   L
UniRef90_V4XPY5	C D V V L   D C A D N F R T R Y   V V N D T A R I E   G V P V A H G A I Y K F E G Q   A
UniRef90_D8KAT0	A D V I V   V D G S D N F A T R F A L   N I A C   V R I G R P L V S G A A I R M E G Q   V
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UniRef90_UP100036A36FF	F D L I F D C S D N Q D T K Y T I   N A L N   H K F G K I L I S G S A I Q E G Q   L
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UniRef90_I6ZYL5	Y D F I I   D G T D N F P T K F   L I   N D A C   C V M R G K P F S H A G I L R F D G Q   T
UniRef90_A0A1017SG50	Y D L I L   D C T D N P A T R Y   L I   S D T A V L L G K A L V S A S A L R T E G Q   L
UniRef90_F4FCF9	Y D L I V   V D G S D N F N T R Y   L V   N D A C   C V I S G K A F V S G A V N D Y T G Q   L
UniRef90_UP1000287BF47	V D I V L   D G T D N F E S R F E I   L S N R A A V A A G K P L V S S G A L S Q W E G Q   L
UniRef90_Q0FQ82	Y D V I L   D G T D N F E T R Y   L S N R A A V A A G K P L V S S G A L S Q W E G Q   L
UniRef90_V2KID0	A D V V L   D C C D N F A T R H A V   N R A C   C V A H R V P L V S S G A A L R F D G Q   L
UniRef90_A0A023RSM8	V D L V V D C C D N L A S R H A I   N A A C   C V E Q G K P W I   S A A A V G W Q G Q   L
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UniRef90_F8D121	P D L L I   D G T D N F D T R M I   L N D A A Y K Y H I   P W I   Y G A C   V G S Y G   L S
UniRef90_Q2T1H7	A S V V L   D C T D N F A T R H A I   I N R A C   C V A H R V P L V S G A A L R F D G Q   I
UniRef90_J9R2Y2	Y D L I I   E G S D S F T T K Y   L T N D A C   I L T Q K P F I L G S I   F K F E G Q   L
UniRef90_X0W716	H D I V V   V D G T D N F P T R Y   L I   N D V C L K L G I   P F A Y G A I   F R M E G Q   V
UniRef90_D7W101	F D L I I   E G T D N F F T E K C   L I   N D A C   V L T G K P L I Y G A I   Y Q Y E G Q   V
UniRef90_UP10004684270	A D V V V   D A S D N F S T R L A I   N Q A C   C I I R K K P L V S G A A V V R F D G Q   V
UniRef90_I2GVL3	Y D V I L   D C T D P L A R Y   L I   S D V A V N L G K T V V S A S G L G T E G Q   V
UniRef90_L0DZ91	A D L I I   D G T D N F A S R A L   N R A A V A S R T P L I S G A V I R F E G Q   L
UniRef90_U1PRA0	Y D L V V   D A T D N F Q S R F L   V N D A A R L R G V P V V H G A I   Y E F E G Q   A
UniRef90_UP10003B6CD89	Y D L I V   D G C D N L P T R Y   L L N D A S V M L G K P I V H G S I F Q F E G Q   V
UniRef90_UP10003B347A0	Y D L V A D G S D S F A T R Y   L V N D A C   C H L V G R P L V S A S I M R F D G Q   L
UniRef90_E6PYT4	Y D L V V   D G T D N F P T R Y   L V N D A C   V L P N I Y G S I F R F E G Q   V
UniRef90_D3NRH9	Y D L V A D G S D N F A T R F   L L N D A C   F L A G K T L V S S A A L R F D G Q   L
UniRef90_M4F3A6	Y D I I V   D A T D N P P S R Y M   I S D C C V L L G K P L V S G A A L L R F D G Q   L
UniRef90_UP10003638E6D	F D I I F D C S D N Q D T K Y T L   N Y L S H K Y N K I L I S G S A V Q M E G Q   L
UniRef90_UP1000364D85C	Y D L V V   D G T D N F P T R Y   L V N D A C   C V M L G K P H V W G S I L R F D G Q   V
UniRef90_Q7MB92	V D L V L   D C C D N M T T R H A I   N A A C   C V A T R K P L I S G S A V V G F S G Q   L
UniRef90_UP100037EDC9F	F D L I F D C S D N P E A K Y T I   I N F L S H L S K K T L I S G S A V Q M E G Q   M
UniRef90_D0I386	A D L V L   D C S D N M A T R Q A V   N A A C   C V I A G K P L I A G A A I G W E G Q   L
UniRef90_UP1000376412C	A D V V L   D C D N F A T R H A V   N R A C   C V I A R P L V S G A V I R F E G Q   L
UniRef90_W0DS45	H D L L I   D G T D N F A S R Y Q   L N Q L C Y K H N T P L V S G A A I R W E G Q   I
UniRef90_B3EN73	Y D F V I   D G T D N F A T K F   L I   N D A C   I M K G I   P F S H R G G I L R F N G Q   T
UniRef90_W6EXT9	Y D L V I   E A T D N F A A K F   L I   N D A C   C V L A N K P Y I H A G V V G F A G Q   V
UniRef90_A4F8M7	Y D L I I   D G T D N F A T R Y   L V N D A A V L L G K P Y V W G S I F R F E G Q   A
UniRef90_UP10002893E06	V D L I I   D A T D N F D T R M L   L N D A S Q K Y K   P W I   Y G A C   V G S Y G   I
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UniRef90_M8D7A5	V D L V L   D A T D N F Q V R   L V N D V C V K H G I   P P W V Y G G A V S A T G G   T
UniRef90_Q7NQ82	H D L V L   D C S D N F A T R H A V   N R A C   C V A A R P L V S G A A V R F S G Q   L
UniRef90_UP10004765E23	E H M D L   D C T D N F A A R E   I L N Q Q M S V R Y R L P L L S A S A I A M T G Q   L
UniRef90_R7C6X7	Y D F I I   D A V D N F S A K F   L I   N D A C   C V L A K K P F C H A G I R Q F Y G Q   V
UniRef90_S3CSN5	Y D V L   D C T D H P T S R Y   L I   I N D A C   S I L G I P D V F G A M Y Q F E G Q   V
UniRef90_UP10002555E7A	W D I V A D A T D N Y V A R Y   L I   I N D A C   S I L G I P D V F G A M Y Q F E G Q   V
UniRef90_UP10002D9F084	Y D L V C D G T D N F E T R F   L L G D A C   C H L L G R T L V S S A A V L R F E G Q   L
UniRef90_R5Q216	H D V L   D C S D N L A T R Q   L A N R A C   C F I E K K P L V F A A A V K L S G Q   V
UniRef90_L8LXK2	S D I A L S C A H N F P E R D L   L N A A C   C V R W H P M V E A A M N S M E A Y L
UniRef90_U1NG16	Y D I V V   D A T D N F P T R Y   L V N D A C   R L A G T P L V N G A V Y K F E G Q   V
UniRef90_G7CN81	Y D L I I   D G T D N F A T R Y   L V N D A A V L A G K P Y V W G S I Y R F E G Q   V
UniRef90_W4RLL3	U D L I I   D A T D N F E T R M A I   I N D I S Q K N K I   P W I   Y G A C   V G S F G M S
UniRef90_UP10004761F2E	H D L V I   D G S D S F A S R Q A V   N V A C   A R A G V P L V A G A I A Q W E G Q   L
UniRef90_A1K9B5	A D V V L   D C S D N F A T R H A I   N D A C   C V K H R K P L V S G A A I R F D G Q   V
UniRef90_A0A059G9B5	G D I I I   D A S D N F P T R Y   A L N A A A H A S G R A L   V Q G A A A G W S G Q   V
UniRef90_UP100037BFA04	M D L V V   D G T D N F S T R F   L L N D A C   C Y K H G L P Y M Y G G A V V S S R G M S
UniRef90_C8PVB4	A K I N C D O T D N F K A R D   I N T I A V K S N L S L L S A S A I A Q T G Q   L
UniRef90_Q21N52	A D V V L   D C T D N F T T R K Q I   I N D A C   V Q V M Q M P L V S G A A I R F D G Q   L
UniRef90_D2TTG6	A D V V L   D C T D N M A T R Q E   I N A V C   V A H N T P L I T A S A V V G F G G Q   L
UniRef90_W9DWZ0	Y D Y I V   D G T D N F E S K F   L I   N D L S L K Y K K F L V T G A I S K F D G H   I
UniRef90_M3HQK5	Y D L V L   D C T D H P T V R Y   L I   I N D V S V I L G K T I V S G S G L K S D G Q   L
UniRef90_H3AHF7	Y D I I A D C S D N V P T R Y   L V N D A C   C V L S G K P L V S S A S A L R F M E G Q   L
UniRef90_UP100047AEA41	V D L I M D A T D N F E T R M   I I N D V S Q M Y G V P W I   Y G A C   V G S Y G   I S
UniRef90_A5CW14	V D V V L   D G T D N F D I R F K   I N K A C   C V M Q R T P L V S S A A V I R F E G Q   L
UniRef90_UP10002D49AED	A D V V L   D C T D R F E S R Y   A I N A A C   C R A A G V P L V S G A A I R F S G Q   L
UniRef90_W7DKF0	H D I V I   D C S D N L Q T R H   V N Q A A F T S K T P L V F G S A L R F F E G Q   L
UniRef90_W4Z9V3	Y D M V L   D C T D N V A T R Y   L L N D A C   C V L A G K P L V S S G S A L R F F E G Q   L
UniRef90_H2MSK7	Y D I V A D C S D N V P T R Y   L V N D A C   C V L S G K P L V S S A S A L R F M E G Q   L
UniRef90_E6U041	V D L I V   D G T D N F D T R   L L I   I N D A C   Q K Y S I P W I   Y G A C   V G S Y G   L S
UniRef90_Q0A9H8	A D L V I   D G S D N F P T R Y   L V N D A C   V K L G L P L V Y G A V Y R F E G Q   V
UniRef90_E3BIB2	A D I V L   D C C D N M P S R Q Q I N R V C H K Q N K T L I S A S A I G W Q G Q   F
UniRef90_A0A031JWZ1	A D L V L   D C G C D N F A T R   L L V S D T C   V K L G I P L T T A A I G R F Q G Q   V
UniRef90_F0LQJ8	A D I V L   D C S D N L E T R H   A I N A A C   C F A A R K P L I A G S A I G W E G Q   L
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UniRef90_R9NLS2	V D M V L   D C S D N M P T R   H A I N A A C   C H H A I P L I S A S A T G F S G Q   L
UniRef90_A4SFW4	Y D F V V   D A T D S F S S K F   L I   I S R A C   C H A A G K P Y S H G G I Q Q F S G Q   A
UniRef90_S7Q3J7	Y D V I L   D C T D N A P T R Y   L L S D T A V A L G K P L V S G A A A Q K F D G Q   L
UniRef90_UP10003B48239	A D L V L   D G S D N F E T R   F A L N A S S L A E G V P L V S G A V A G W T G Q   V
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UniRef90_UP100034A95CE	V N V L I   D G T D N F D I R F   I L N D L S H K Y N I P W I   Y G S C   V G S Y G   A T
UniRef90_UP100047D3F16	W D L V I   D G T D N F P T R Y   L L A D A T A L M G I P L I H G A V L R S H G Q   V
UniRef90_UP1000474B7E1	V D L I I   D G T D N F Q T R   F L L N D V A M K H P W I   Y G A V V R S Y G M
UniRef90_K6DT57	M D L V L   D G T D N F Q T R   F L L N D A C   C F K Y G I P F V I Y G G A V V S S R G M S
UniRef90_E1JXZ1	Y D F V V   D G V D N F Q T K F   L I   I N D A C   C L A G I P F S M G G V L Q F V G Q   T
UniRef90_E6PCE3	Y D V V I   D C S D R F T T R Y C A S D A C   S L E G K I E I F A A I F R F D G Q   V
UniRef90_D7FVG1	Y D V V L   D G S D N F P T K Y L V N D A C   C E I L G I P N V Y G A I L G F E G Q   M
UniRef90_I8UFY6	A D L I I   D A T D N F D T R   L L I N D I A Q Q R G I P W I   Y G A C   V G S Y G   L S
UniRef90_B7S149	V D L V V   D A S D N Y P T R F D I N R A C   C A A G I A L V S A A A V R D E G Q   L

170            180            190            200

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UniRef90_UP10004782F2D	T T F D R D P A Q P C Y H C T D G P C A T F G V F A P L T G L I G T A Q A A E A
UniRef90_V4XPY5	T T L V P D G P C Y E C V F P N C P E A P E P G T V P D C P G T V G C V Q A T E A
UniRef90_D8KAT0	A V F D R Q P D G A C Y H C L F R E C S Q T G V L A P L L G I I G S V Q A M E A
UniRef90_B7V0K9	S V F T R R D E S P C Y H C L Y G H C S E A G V I G P L V G L V G S L Q A L E A
UniRef90_UP100036A36FF	S I W K S G L N S P C Y E C V F P N C R E A G I I G P I T G F I G S M Q V N E A
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UniRef90_I6ZYL5	F T H V P G S M C Y R C I F K E P P P K G V V P T C S G V I G S I Q A V E A
UniRef90_A0A017SG50	M V L N N P P R P P C Y R C V F P K P P P A N I L I G P V V G T M G L L Q A L E A
UniRef90_F4FCF9	S V F N Y N E G P T Y R C L Y P D A P D P D Y C H S C P G I V G L L M A N E V
UniRef90_UP1000287BF47	S V F K Y E V D Q P C Y Q C L Y S E C V E N G V L A P V A G L V G T I Q A L Q A
UniRef90_Q0FQ82	S V F D P A R G T P C Y Q C L F P E C A E A G V L G P L P G V V G A M M A V E T
UniRef90_V2KID0	S V F R R R D D A P C Y A C L F P P C A T M G V F A P L V G M V G T V Q A A E A
UniRef90_A0A023RSM8	M A R S A P E H A C Y A C L Y P A D T E V R V T G P L V G V M G S L Q A L E A
UniRef90_UP10004680136	A V F N H H D L Y P T P T E N I N C V E G G V I G I L P G I I G L Y M A N E A
UniRef90_F8D121	Y A F I P P G K S P C F H C L L E T V P V A G G L T C D T A G I I S P Y Q V A E A
UniRef90_Q2T1H7	S T F D F R D P S P C Y A C V F P E C S T M G V F A P T V G I I G A M Q A A E A
UniRef90_J9R2Y2	S V Y N Y Q G G A T Y R C E M P T C S E V G V L G V L P G V V G T L M A N E A
UniRef90_X0W716	S L F F C T E D G P C Y R C V F M T C E E A G V L G V L P G C T I G T L Q A T E V
UniRef90_D7W101	S I W N V I Q K N G T Y E S Q V P N C R E A G V L G V L P T L A G I I V G C M Q A N E A
UniRef90_UP10004684270	A V F D L Q G H S P C Y Q C L F P G T G E M G V F A P L V G I I G C V Q A A E T
UniRef90_I2GVL3	T I L L N F K N G P C Y R C F Y P T P P E G G V I G P C I G L L V G T M M A V E T
UniRef90_L0DZ91	A T F D F R D P D P C Y H C L Y E T C S E S G V F A S L P G V I G S L Q A T E A
UniRef90_U1PRA0	T T L V P G G P C Y R C L F P T P A P E P G T V P N C P G T V G S I Q A T E A
UniRef90_UP10003B6CD89	T V L Y P G K G P C Y R C L Y P E P P E A G V F G V L P G I I G T I Q A V E A
UniRef90_UP10003B347A0	A T F R S H L G H P C Y R C L Y G E Q P E V G V L A M L P G V M G S L L Q A A E V
UniRef90_E6PYT4	S V F A A P G G P C Y R C L Y P N C A E G G V L G V L P G I I G T L L Q A L E A
UniRef90_D3NRH9	S S F K A H P C P Y R C L F P P P P R G T V P S C S G F I G S L L Q A T E V
UniRef90_M4F3A6	T V Y N H K G G P C Y R C L F P T P P P T T A C Q R C P G V I G C L Q A L E T
UniRef90_UP10003638E6D	S V W K L D N T F P C Y E C C I F P N C R E A G I I G P I T G F I G S M Q V S E A
UniRef90_UP1000364D85C	S V W W A G Q G P C Y R C C V F P D C A E G G V L G V L C A A G S I I Q S T E A
UniRef90_Q7MB92	M V F E P P Y L H G C Y R C L Y P E Q Q E P G V L G P I V G I I G T L L Q A L E A
UniRef90_UP100037EDC9F	A V W K L N K D Y P C Y E C C I F P N C R E A G I I G P I T G L I G S M Q V N E G
UniRef90_D01386	M V F D F Q P G T P C Y H C L F P S N D D P D I R N C Q V G V I G N L Q A L E A
UniRef90_UP1000376412C	T T F D R D P Q A G C Y H C L Y E T C A T S G V L A S L P G V I G S L L Q A T E A
UniRef90_W0DS45	S T Y D R K E G L A C Y Q C I N E T C S Q S N G V V A P L L G I I G S I I Q A L E A
UniRef90_B3EN73	M T V L P K E S A C Y R C V F H K P P P K N M I P T C S G M L G T I Q A A E A
UniRef90_W6EXT9	M T V I P G E G P C Y R C L F P R D M P E A G V L G A V V I G S I I Q A L E A
UniRef90_A4F8M7	S V F W A E H G P N Y R D M V P S C A E G G V L G V L C A S G S I I M V N E A
UniRef90_UP10002893E06	S Y C I L P G E T P C Y H C L L E T V P M G G L L T C D T V G I I I S P Y Q V T E A
UniRef90_D2UAL6	S V F D A G R Q R P C Y R C F A P N C A E A G V L G V L P G I I V G L L Q A N E V
UniRef90_B3LSM6	T I L N F N N G P C Y R C F Y P T P P E G G V I G P C I G L V G T M M A V E T
UniRef90_C7LY70	T V F S P Y D G P C Y R C L A P S C A E G G V L G V L P G I V G S I I Q A L E A
UniRef90_M8D7A5	F A A L R P G V T P C L R C E M A T C D T A G V I G L V P I L I H I V A S Y Q A T E A
UniRef90_Q7NQ82	A V F D S R D A S P C Y H C L F P D E G E A S D G P C A T G A I G S L L Q A V E A
UniRef90_UP10004765E23	A L Y E P A K R S G C Y H C V F R N C S N S G V L A S T T T V M G N L Q A N A A A
UniRef90_R7C6X7	L T Y V P G E G P C Y R C I F E E L P K D G V I G S I I P G I I G S I I Q A L E A
UniRef90_S3CSN5	I V L N S P P L P C P Y R C I F E E L P K D G V I G S I I P G I I G S I I Q A L E A
UniRef90_UP10002555E7A	S V I F Y A K Y G P C Y R C V Y P A P P P A G L V P T C S G I I G S F Q A N E V
UniRef90_UP10002D9F084	S T Y K S H L P H P C P H R C L L H P T C S E A G V L G A V V T G V M G T L Q A T E V
UniRef90_R5Q216	T V F D F R D P D P C Y R C L F E E E D D A A N V F S G L T G T G L L L Q A T E A
UniRef90_L8LXK2	T T I V P G Q T P C L S C I F P E K P D W D V L G A V V S G T L L A C L I A L E A
UniRef90_U1NG16	T T L V P D G P C Y R C L F P E P P D P G T V P D C P G T I G C L Q A T E A
UniRef90_G7CN81	S V F W P N G Q G L N Y R D M V P S C A E G G V L G I L P A T I G A I Q G T E A
UniRef90_W4RLL3	F S I I P G K T P C L N C Q G M T C D T G G I I G P A V I Q M V I A H Q G A E A A
UniRef90_UP10004761F2E	T V W D P A R G A P C M A C L F P E C A E A G V V G P L P G V I G S M M A L E A
UniRef90_A1K9B5	S V F D R K P G S P C Y H C L F P R C A V M G V F A P L T G I I G A T Q A A E A
UniRef90_A0A059G9B5	S V F A L Q P G A P C Y R C W V P E T P E V G V V G A M T G M V G A A M A L E T
UniRef90_UP100037BFA04	A S F I P G E T P C L R C S G D T C D T I I G V I S P I V D I I A S I E T A E A
UniRef90_C8PVB4	A L F T P P Q Q G C Y H C D E Q T C A T S G V L A S T T Q I I G N L Q A Q A A
UniRef90_Q21N52	T V F D K R D E S P C Y Q C L Y Q S C S Q S G V L S P L V G V V G A M Q A L E A
UniRef90_D2TTG6	M V L T P P W E Q G C Y R C L W P D D S E P E V L G P V V G V M G T L Q A L E A
UniRef90_W9DWZ0	F T F N F N K K D P C L R C F Y Q N C E Y E G I L G T V A G I I G T L Q A N E V
UniRef90_M3HQK5	T I L N F N A T G P C Y R C F Y Q P P D G G V I G P A I G L V G V S M A V E T
UniRef90_H3AHF7	T V Y N Y N G G P C Y R C L Y P K P P P E V L G I V P G I M G S L Q A L E V
UniRef90_UP100047AEA41	F T I I P E Q T P C L S C L V E T C D T A G I I S P A V N M V V S F Q I S E A
UniRef90_A5CW14	S V F Q Y N Q T K P C Y Q C L Y E N C T R N G I I L S P V T G I I I G S L L Q A L Q A
UniRef90_UP10002D49AED	A V F D P R D P T C Y Q C L Y P P C A E N G V V P A L P V G I V G C F Q A L E A
UniRef90_W7DKF0	S V F N R N I S S P C Y A C L F D G Q D N G Q D S C S F S G V F G S M Q A A E A
UniRef90_W4Z9V3	T V Y N Q G G G P C Y R C L Y P R P P E G G V L G G V V P G I I G C I Q A L E A
UniRef90_H2MSK7	T V Y N Y H G G P C Y R C L Y P N C S D G G V L G V V P G I M G C L Q A L E V
UniRef90_E6U041	T Y T I I P G E T P C L N C G G A T C D T V G V I S P V Q M V V A Y Q T A E A
UniRef90_Q0A9H8	T V F N V P D D G P C Y R C L Y P E C A Q A G V L G V L P G V I G L L Q A T E A
UniRef90_E3BIB2	S V F D F S E I S T V G G G C F H C L F P D S G V M G P V V G I I G N Y Q A L A A
UniRef90_A0A031JWZ1	A N F A G H P G H A C Y R C F C F C D T C A A D G V V L G A M V G M V G T F A A M H A
UniRef90_F0LQJ8	V V F D F N Q P Q G C Y R C L V P R C T D L G V M G P V V G S I G N L Q A L M A
UniRef90_UP10003052172	G A F A G H D E A C Y R C F C F D T C A D D G M L G A M A G W A G T F A A L Q T
UniRef90_R9NLS2	L V L T P P F Q H G C Y R C L W P D E A E P T V L G P V V G I I M G T M Q A L E A
UniRef90_A4SFW4	M T V I P G R T A C C H C L F H E D D E P P T P I G A I A G V I G S I I Q A A E A
UniRef90_S7Q3J7	C V Y N L N E G P C Y R C L F P K P P E T G I L G T V T G V I G T L Q A L E A
UniRef90_UP10003B48239	M A V N H D E N C P C Y Q C F V P N C K D L G V V G V G A I T H L V A S Q Q A L L A
UniRef90_L8K032	A V F N Y K Y P E P P E P D S V P N C A E G G V L G V L P G I I G C M Q A N E A
UniRef90_UP100034A95CE	Y T V I P G R T P C L H C I L K K V P I G G A T C D T S G I I I S S Y Q I A E A
UniRef90_UP100047D3F16	G V F D A R R G P C Y R C L H P Q P P E A G V L G V L P G I V G T M Q A A E A
UniRef90_UP1000474B7E1	S V S I V P K Q T C P Y C R C D G M T C D T V G V I S P A V Q V V A S Y Q T A E S
UniRef90_K6DT57	A I F V P N E T P C L R C F C I Q T C D T V G V I S P I V D I V I A S L Q V V E V
UniRef90_E1JXZ1	M T V L P G K S A C Y R C V M P T C A E K G L L G P V P G I T G T I Q A A E A
UniRef90_E6PCCE3	T R F D P A G P C Y R C L F P H A P E P G S V P S C P G I V G A W Q A S E A
UniRef90_D7FVG1	S V F T Y K G G P T D R D L P T C A E G G V L G I L P G V V G C I Q A T E V
UniRef90_I8UFY6	S V V I L P E E T P C L S C M G G A T C D T A G I I I A P A V G M V V A H Q T A E A
UniRef90_B7S149	S V F D P H R A G P C Y R C L Y P S C S E S G V L A P V V G V L G S L Q A M E A

	210	220	230	240
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UniRef90_UPI0004782F2D	L K L I V G L G E P L   T G R L Q L D A R S M Q W R E M Y R K D P S C P V C G			
UniRef90_V4XPY5	V K L L L D A G E P L   A G R L L V Y D A M D M S F E T V P Y R Q N P A C P V C G			
UniRef90_D8KAT0	L K L L L G I G Q S L H N R L L L D G L N M R W R E I R I H Q D P Q C P I C G			
UniRef90_B7V0K9	L K L L L A G F G E P L V G R L L L V D A L G T R F R E L R V R R D P S C A V C G			
UniRef90_UPI00036A36FF	I K E I L K N Y S S M A G Y L F L Y D G M S Q N L E K I K I K L I K N D K C P T C S G			
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UniRef90_I6ZYL5	L K F L T G A G D I L T D R L L T F N A L R G G F R E V K L K K N K N C P V C G S			
UniRef90_A0A017SG50	I K V I T A S D D A P R N S L L I F S A Y S P Q F R S I I K L R R R A N C A V C G			
UniRef90_F4CFC9	I K V V T T Y G D V L S G K L L T I D I Q K N R Y Q T I S F A V D P N			
UniRef90_UPI000287BF47	I K V L L G I G D Q L C G E L L I D G L D L S L R K V K I V K E P E C P I C G			
UniRef90_Q0FQ82	V K L I A G A G Q P L C E M I Y D A L W G E T R K I G L K R R E G C P I C G G			
UniRef90_V2KID0	L K L I A G V G N T L A G R L L M V D A F R M E W T T M A L A R T P D C E V C G			
UniRef90_A0A023RSM8	L K L L L G R P S P V A G T R R F D A L A H E W Q T L R L P A D P D C P V C G			
UniRef90_UPI0004680136	I K L I C G I G E T L M T I D A L N M V L F V K I A Q E K Q			
UniRef90_F8D121	L K I L V I E D W S S L R N K L V S F D L W K N Q H A A I R V D K D K E D C P T C G			
UniRef90_Q2T1H7	L R V I G G I G T T L V G R L M M L D S L R M E W S T M K L I A R Q P D C P V C G			
UniRef90_J9R2Y2	I K V L T E M G E I L A G R L L K I D L L T L E Q T I F E F E K D P			
UniRef90_X0W716	I K H I L G L G C P L A G R L M V Y N A A E M Q F E T I S L T K N P N C P T C S			
UniRef90_D7W101	I K Y F T H P E D S L A G K L W M M N V L N G K T Q I K L R K			
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UniRef90_Q0BWN9	S L T K D Q I	S L T K D Q I S R Y S R Q I L L Q D F G V K G Q E G V F S A K V L I I V G A G G				
UniRef90UPI000469B0D8	S L S P E D I	S L S P E D I D R R H R R H I I L L K E I I G G P G V A K L R A A S V S I I I G A G A				
UniRef90_D6DP00		N R Y D R Q L K I Q D F G V K G Q E G V F S A K V L I I V G A G G				
UniRef90UPI000365BDB7	M K D R D F	M K D R D F M R Y S R Q I L L E D I A I E G Q Q K L L A S R V L V I V G L G G				
UniRef90_F3WW16		D R Y S R Q Q N F G P I G T A G Q Q E L L A A K H V L I I V G A G A				
UniRef90UPI0004768B36	E L S S I D I	E L S S I D I I E R H A R H I I L L K E I I G G P G Q N K L A R A H I I I G V G G				
UniRef90_R9H0W5	F S K E E L	F S K E E L A R Y N R H I I P G F G M E A Q E K L K K S S V L V V G A G G				
UniRef90_C6XZI0	E N Q K R Y D R Q V I I L P E I G L D G Q Q K L K N A R V L V I I V G L G G					
UniRef90UPI000472E0F4		E R Y G R H I I L L R E I G E V G Q E R L S A A R V L V I I V G L G G				
UniRef90_L0A9V4	L S R F S R Q I	L S R F S R Q I L M Q D I G Y E G M E K I R N S K I A L V F I I G C V G A G G				
UniRef90_D0Z159	S L T D H Q F L	S L T D H Q F L R Y S R Q I L M V P E I S E Q G Q S Q L A Q A K Q V L F I I G C V G A G G				
UniRef90_U7PD44	T P E F N E R Y S R Q T R F A P I G V D G Q K S I E H T H V L V I M G A G A					
UniRef90_F7A1S8	M D Q E S I	M D Q E S I S R Y S R Q I L I M P E I G V K G Q L K L D A K V L V I I V G V G G				
UniRef90_X5GX87		R Y L Q H F A L F G K T G Q Y A I L D A K V L V I I V G V G G				
UniRef90UPI0004686A12	S L T D H Q F L	S L T D H Q F L R Y S R Q I L M V P E I S E Q G Q S Q L A Q A K Q V L F I I G C V G A G G				
UniRef90_I5BSD3	A A L S D T E	A A L S D T E I E R Y A R H I I V L P E I G I E G Q K K L K K A R V L V I I V G A G G				
UniRef90_S4W5N1	N K D L S R W T	N K D L S R W T R Q I V L P E I G I E G Q K K L L N C Q V S I I I G M G G				
UniRef90_A6R0V8	D L S E K E	D L S E K E I D R Y S R Q I I M V D Q I G L E G Q K L K R E S S V L I I V G A G G				
UniRef90_B3T629		D L S E K E I D R Y S R Q I I M V D Q I G L E G Q K L K R E S S V L I I V G A G G				
UniRef90_S2X68						
UniRef90_W6RAR4	T P L T P E E	T P L T P E E I E R Y A R H I I V L P E I G G G A G Q Q R Q L K R A R R V L V I I V G A G G				
UniRef90_H0HJU4	L S P E E	L S P E E I A R Y Q R H I I L L P E I G G G A G Q Q R Q L K R A R R V L V I I V G A G G				
UniRef90_Q13EN4	L S A D E	L S A D E I E R Y A R H I I V L P E I G G G A G Q Q R Q L K R A R R V L V I I V G A G G				
UniRef90UPI0002485EAD	A E L T R D E	A E L T R D E I E R Y A R H I I V L P P Q I G H E G Q R R L K N A R V L V I I V G A G G				
UniRef90_J0PYZ1	K L S N Q E I	K L S N Q E I E R Y A R H I I L L P P Q I G H E G Q R R L K N A R V L V I I V G A G G				
UniRef90_M7NVZ6						
UniRef90_R9ABN0	L S P E E	L S P E E I A R Y Q R H I I L L P E I G G G A G Q Q R Q L K R A A H V L V I I V G A G G				
UniRef90_F2IYE7	L S P A E	L S P A E I E R Y A R H I I V L Q E V G G P G Q H R L K G A R V L V I I V G A G G				
UniRef90_Q3SWN5	L S A D E	L S A D E I E R Y S R H I I V M R E V G G P G Q H R L K N R A R V L V I I V G A G G				
UniRef90_F8NXD6		D E Y R R Y G R Q M I L D N F G L P P G Q L K L Q Q A S V V V V G A G G				
UniRef90_B6ECE15	M N D N Q L	M N D N Q L L R Y S R H I I L D E I G I G G Q E K L L S A S V V L V V G A G G				
UniRef90UPI00047A89EC		D R F S R Q V K F H G I G E K G Q Q L L A E K H V L V I M G A G G				
UniRef90UPI0004207D44	S L D A T Q	S L D A T Q L D R Y S R H I I M D E V G P E G Q A A L L N A R V L V I I V G A G G				
UniRef90_V4Y2G4	S L P L E D Y	S L P L E D Y R R Y G R Q M I L D G F G L E G Q I K L S Q A S V V V V G A G G				
UniRef90_R7SNB7		D K Y Q S D E F C Q D E I C P E Q A A L L N A R V L V I I V G A G G				

	50	60	70	
UniRef90_G4QN21	L G C A A A Q Y	L V A A G V G Q L T	L V D D D V E T T N L	L Q R Q V L H F E E N
UniRef90_L7LHE9	L G S P T L L Y	L A A A G V G T I G I V D F D V V D T S N L	L Q R Q I I H G L G D	
UniRef90_K4LDW7	L G S A A A Y Y	L A A A G V G T I G I I D Q D V E L S N L	L Q R Q I L H D T G R	
UniRef90_A7IA80	L G S P V S I Y	L A V A G V G T L V D K D V D Q T N L	L N R Q I L H Y D K D	
UniRef90_C0BFS8	L G C P I L Q Y	L A A A G V G T L G I M D D Q V D L S N L	L H R Q I L F E E K D	
UniRef90_G2LJ45	L G C A L A D M	L V R A G V G T V R L V D R D F V E W S N L	L N R Q Q L F D E A R	
UniRef90_E5WGZ7	L G S G N A E L	L M A R S G A A K L T I I D R D Y V E E S N L	L Q R Q Q L F A E S D	
UniRef90_R7RTF0	L G T S I L N S L	L V R A G V G F I L R V V D M D V V E L S N L	L Q R Q Q M L F D E K D	
UniRef90_UPI00037DA889	L G S P V A L Y	L A A A G V G R M T L V D D D I V E L S N L	L Q R Q I A H G Q A D	
UniRef90UPI0003F77F6E	L G S P A S L Y	L A A A G V G H I V L N D F D H I V E L S N L	L Q R Q I S Y Q S D D	
UniRef90_Q1QXC3	L G S P V A L Y	L A A A G V G R M T L S I A D D D V V E L S N L	L Q R Q I A H D E R D	
UniRef90_E6W4L4	L G S P V S M Y	L A A A G V G H I L G I A D A D V V D L S N L	L Q R Q I L H G T P D	
UniRef90_A1S6Q7	L G C Q A A M L	L A A S G V G H I L S L F D A D S V E L S N L	L P R Q M L F C D L D	
UniRef90_L9L9Q1	L G C H L A Q Y	L A A A G V G R G R L L G L V D Y D V V E T S N L	L A R Q Y L H G E A L	
UniRef90_E0IBV9	L G S I I I A Q H	L V R A G I G R L R I I D R D I V E W S N L	L Q R Q V L Y M E E D	
UniRef90UPI00035EC2FA	L G S P A A L Y	L A A A G V G G E L L T L A D D D R V D L S N L	L Q R Q I A H G E A D	
UniRef90_R716D1	L G S P V L L Y	L A A A G V G G K I I G I I D G D Q V D C S N L	L Q R Q V I H S T S R	
UniRef90_K9ESD8	L G G T A A L Y	L A V A G V G K I I I L V R G G N L Q R D D L	L N R Q I L M T D D W	
UniRef90_C5ZVB6	L G S P V L F Y	L A A A G V G G E I I G I C D G D N V D L S N L	L Q R Q I L H T T K D	
UniRef90_A4FWU4	L G T V V S Q Y	L A A A G V G G E I I G I C D G D N V D L S N L	L N R Q I L H F E K D	
UniRef90UPI0003496D3F	L G S P A L L Y	L A A S G V G R V R F M D D D E V E L S N L	L Q R Q I L F K L N H	
UniRef90_C5DJG9	L G C P C L P Y	L V G A G V G Q V G V V D N D V I D T S N L	L H R Q V V L H D S T K	
UniRef90_A0A023HW83	L G S T T I P L	L A A S G I G R L L V L C D D D T V K I S N L	L N R Q T I I Y R E E D	
UniRef90_K5X4Z4	L G C S A L Q Y	L A A A A G A G K L G I I D H D V V E T S N L	L Q R Q I L H S D E K	
UniRef90_F4NU54	I G S P A L Y	L A A A G V G G N L G I V Y D F V E E S N L	L Q R Q I I H S E A S	
UniRef90UPI00046FB09A	L G S S S A E M	L A R A G V G R M N L V D R D Y V E L T N L	L H R Q Q L F T E K I	
UniRef90_A4RPM5	L G C P A S A Y F	L A G A G V G G T I I G L V D G D T V E A S N L	L H R Q V A H G T S R	
UniRef90_B6EGV3	L G S S V G M Y	L A A A G V G G T I I I A D G D D V D L S N L	L Q R Q V V Y R E Q S	
UniRef90_F5Z488	L G N A A A T N L	L C G S G V G K I I T L I D N D I V E H T N L	L P R Q T L F D E S Q	
UniRef90_A8L2B2	V G G A A A T Y	L A A A G V G G R L L V L V H P G A L E E P D L	L N R Q T L M R P E W	
UniRef90_N1MKJ2	I G S P A I L Y	L A A A A G I G T I I R V I D D D A V A L S N L	L Q R Q V I M F G T A D	
UniRef90_S4ZER7	L G A P T L L Y	L A A A G V G G T I I G I V E F D V V E E S N L	L H R Q I I H G V A D	
UniRef90_B6BVJ3	L G S P A S I L Y	L A S S G V G E L L T L C D D D V E L S N L	L Q R Q I V H T E D N	
UniRef90UPI0003743390	L G C P A M Q S	L A S A G V G T I I S I V I D D D T V D L S N L	L H R Q I L F G A S D	
UniRef90_W7TXN7	L G S P P L L Y	L A A A A G V G G R L L G I V D D D T V E E S N L	L Q R Q V I H G Q G T	
UniRef90_F6FR07	L G S P V L Q Y	L A A A A G V G G T L L G I V D D D T V E E S N L	L Q R Q V I H G A G D	
UniRef90_Q7MGM5	L G N A A A A Y L	L A A A A G V G G H I V L V D D D V V E E S N L	L Q R Q I A F R Q Q H	
UniRef90_K2GBC3	L G T S T A E M F	T R A G A G K I I T I A D R D Y V E W S N L	L Q R Q Q L Y T E E Q	
UniRef90UPI00034D5440	L G G T A A A L Y	L A V A G V G G R L I I L V R G G D L R L D D M N R Q I L	L M T D D W	
UniRef90_A0KWK0	L G Q L A A Q Y	L A C A G V G G R L T L V D S D R V E L S N L	L P R Q Q L F S D D D	
UniRef90_L1M2W2	L G S P T L L Y	L A A A A G V G G T L L G I V D D D T V D L S N L	L Q R Q V I H T V D S	
UniRef90UPI000360AE02	L G C P A L Q Y	L T A V G V G K I I G I I D D D L V D A S N L	L Q R Q V V F K P E D	
UniRef90UPI00047109BA	L G S S L L Y Y	L V A S G I G E I I G I V D F D K V S L S N L	L Q R Q I L Y T E E D	
UniRef90UPI0002493457	L G S F V S S E L	L V K A G I G E I I T L V D F D K V E F T N L	L H R Q Q N L Y T E K D	
UniRef90_C6V5Q1	L G C S V L Y N L	L A A A A G L G E I I V I V D F D R V S E S D L	L N R Q F L F E N S S	
UniRef90UPI0003B750A4	L G S P V L L Y	L A A A A G V G G T L L G I V D D D E V D L S N L	L Q R Q V I H G V T D	
UniRef90_A4TS26	L G S P A A L Y	L A A A A G V G G Q I L L A D D D Q L D L T N L	L Q R Q I L Y R T A D	
UniRef90UPI0001E89D0F	L G T G N A E A L	V R A G V G K I I T I D R D Y V E W S N L	L Q R Q Q L Y C E K D	
UniRef90_D4E0G8	L G S P A A L Y	L A A A A G V G G T L L A D D D Q L H D T N L	L Q R Q I L Y R S A D	
UniRef90_A0A024PKL2	L G T S S S E Q L	V R A G V G K I I T I D R D Y V E V S N L	L Q R Q Q L F T E K D	
UniRef90_F9MMB2	L G S P V A L Y	L T A A G I G T I I G I V D D D V D S S N L	L Q R Q I L H S E D C	
UniRef90_R5WDC9		M G Q I T L L D F D T V S L S N L	L Q R Q Q L H S D A T	
UniRef90_F5HBQ1	L G C P V L Q Y	L A A G A G V G T I I G I I D H D T V S M S N L	L H R Q I I L H T T D R	
UniRef90_A0A058YZG2	L G A P A G L Y	L G A C G L G E L L G I V D F D L V E R S N L	L P R Q I A F F G V P D	
UniRef90_F7XB94	L G S P P L A F Y	L A A A A G I G T I I G I I D S D R L E R S N L	L Q R Q I L H T D D R	
UniRef90_W2TKN6	L G C P V A M Y L	L A G A G V G K T I I G I I D Y D E V A L D N L	L H R Q V A H K E R S	
UniRef90_Q0BWN9	L G G P A A L Y	L A A A A G V G G E I E L L W D D D R V E R S N L	L Q R Q I Q F T E A D	
UniRef90UPI000469B0D8	L G S F V S S E L	V K A G I G E I I T L V D Y D V V E L T N L	L H R Q N L Y T E A D	
UniRef90_D6DP00	L G T P A A L Y	L A G A G V G G T I I V L A D D D E V H L S N L	L Q R Q I L F T T E D	
UniRef90UPI000365BDB7	L G S G N A E I L	L A R S G V G T I I T I I D R D Y V E W S N L	L Q R Q F C E Q D A I	
UniRef90_F3WV16	L G S P A I Q Y	L A A A A G I G S I I I I D V V E H S N L	L Q R Q T I I F S T E D	
UniRef90UPI0004768B36	L G A P A A L Y	L A A A A G V G G K I I T I I D P D Y V S L D N L	L Q R Q I L Y T T K D	
UniRef90_R9H0W5	L G S P V L L Y	L A A A A G V G H I G I V D C D V V D D S N L	L H R Q V L F G I E E	
UniRef90_C6XZ10	L G C P L L L Y	L A A A A G I G H M G I I A D H D V V D E S N L	L Q R Q I L Y Q M A D	
UniRef90UPI000472E0F4	L G S P V A M Y L	L A A S G I G H L V L S D Y D H V E L S N L	L Q R Q I L Y C R D	
UniRef90_L0A9V4	L G S T Q G E I L	L A R A G V G K I I K I I D R D Y V I V H R T H	L M A K E E D	
UniRef90_D0Z159	L G S I A A L Y	L A G A G I G A L L W I A D G D K V E E L S N L	L A R Q I L Y R E S D	
UniRef90_U7PD44	L G S H I A E Q L	V R M G I G K L I T I V D M D I V E L T N L	L H R Q A L Y D E T D	
UniRef90_F7A1S8	L G C P A I Q Y	L V A A G I G Q Q I I G I V D Y D E V E L S N L	L H R Q I L H T E A E	
UniRef90_X5GX87	L G C S V L Y N L	V L G A G V G G E I I A I V D F D R I V E S N L	L N R Q F L F D N A S	
UniRef90UPI0004686A12	L G T V L A N H M	V R A G V G G L V R F V D R D F V E E S N L	L Q R Q M L F D E Q C	
UniRef90_I5BSD3	L G A P V L C Y	L A A A A G I G T I I G I V D D D T V S S L S N L	L Q R Q V I H D T D S	
UniRef90_S4W5N1	L G C P V A Q S L	V M A G I G K L K I I D D D F V S S L S N L	L H R Q P L Y S F Q D	
UniRef90_A6R0V8	L G C P A A M Y L	L A G A G V G G T I I G I I D G D T V E E S N L	L H R Q V L H R T R N	
UniRef90_B3T629	L G N P I V T R L	L A A M G V G N I I R I V D R D V I E L S N L	L H R Q T M F N E D D	
UniRef90_S2XD68	L G T H L A E G L	V R A G V G R K L M I V D R D Y I E H S N L	L Q R Q T L F T E A D	
UniRef90_W6RAR4	L G A P V L Q Y	L A A A A G V G G T L L G I I A D D D R V S L S N L	L Q R Q V I H D S G T	
UniRef90_H0HJU4	L G A P V L Q Y	L A A A A G I G T I I G I V D D D N D H V S L S N L	L Q R Q V I H D T Q S	
UniRef90_Q13EN4	L G A P V L Q M Y L	L A A A A G I G T I I G I V D D D N D H V S L S N L	L Q R Q V I H A T P D	
UniRef90UPI0002485EAD	L G S P A L L Y	L A A A A G V G G T I I G I V D D D V D D V D S V S N L	L Q R Q V I H G V D D	
UniRef90_J0PYZ1	L G A P V L T Y	L A A A A G V G G T I I G I V D D D V D D V D S V S N L	L Q R Q V I H K T N T	
UniRef90_M7NVZ6	L G C P A L T Y	L T G A G V G G T I I G I V D G D C V D I E S S N L	L C H R Q I L H T S S K	
UniRef90_R9ABN0	L G C P A A A Q Y	L V A T G V G T I I T V I I D G D T V E E S S N L	L Q R Q I L H S D V K	
UniRef90_F2IYE7	L G A P V L Q Y	L A A A A G I G T I I G I V D D D T V S L S N L	L Q R Q V I H D T G M	
UniRef90_Q3SWN5	L G A P A L M Y L	L A A A A G V G G T I I G I V D D D V V T L S S N L	L Q R Q I I H A T P D	
UniRef90_F8NXD6	L G C P A L Q Y	L A A A A G V G G R L G I V D H D K V E L S S N L	L A R Q I L H S E E T	
UniRef90_B6QE15	L G C P A A A L Y	L A G A G V G G T I I G M V D G D T V E E S S N L	L H R Q V L H R T K N	
UniRef90UPI00047A89EC	L G N A A L P Y	L A A A A G V G G T I I I V A D D D I T D Q T N L	L Q R Q I L C F A E Q D	
UniRef90UPI0004207D44	L G S A G A E T L	L A R A G V G G H I I D R D Y V V E Y S N L	L N R Q Q L Y T E K D	
UniRef90_V4Y2G4	L G S S P V V Q Y	L A A A A G V G G G I L I D H D T V E E R S N L	L Q R Q V V H A D A D	
UniRef90_R7SNB7	L G C P A L Q Y	L A A A A G V G G S I I G I I D H D T V E E F S N L	L Q R Q V V H T E S R	
UniRef90_T0LT78	T G S P A A D L M	V R A G V G G S I I K L V D G D T V D V T N L	L H R Q I L Y A Q S D	

	90	100	110	120
UniRef90_G4QN21	I G A K K V D S A V S T L S K I N H H V V L K A D S R Q S A D E L E R L I A E			
UniRef90_L7LHE9	V G R L K T E S A R D S I A E L N P F V D V R L H N R R L L E A K D A V D L F S E R			
UniRef90_K4LDW7	I G M S K A E S A K M T L S A L N P E I E V I P Y D F R L T T A A N A R E L V E R			
UniRef90_A7IA80	I I G K K K T E S A E E K L I A W N P D I T I R V I D T T I D A G N V G K L I G R			
UniRef90_C0BFS8	I I G K N K A I C A K S K L Q K H N S E I I K I I D Y P F A L N E T N Y Q E I V T L			
UniRef90_G2LJ45	E H R P K A R A A E Q R L L R A V V N S A V V R V E G I I A D V A P D T V E A L V A A			
UniRef90_E5WGZ7	D K M P K A A A A E K R L L K Q I N S E V E I R S I I G D A T P E K L E E L A E G			
UniRef90_R7RTF0	L G E K K V I A A T T N K L L K I N S E V N L E P I V D R I T A D T I G K Y A L G			
UniRef90_UPI00037DA889	L L G R H K A T S A A E S A Q A L N P Y C H V T A R T E R M G I E A L M L A M R D			
UniRef90_UPI0003F77F6E	I I G E A K V E V A K R K L Q Q I N P E I K V R S I N K A M P E M Q L T M E L I M			
UniRef90_Q1QXC3	L L G R G K A E S A A V S A R R L N A A C Q V D V I A S R L A G E A L Q R A V T E			
UniRef90_E6W4L4	L L D T P K V F S A R A R L R N P D V D V K V Y H Q W I T P E N I A E V M E P			
UniRef90_A1S6Q7	L L G K T K A G V A A A R L Q A R E P G L K V S V Y G E L N S E T L T Q L D G			
UniRef90_L9L9Q1	A G Q A K A L S A A A S L R R L N S A V E C V P Y A L A L T P A T A L D L V R R			
UniRef90_E0IBV9	Q M L P K A E A A A I R L H A A N S L P V I E P V T D L V P H H A E E L L T S			
UniRef90_UPI00035EC2FA	I I D T F K A D S A A R S I A A V N S A C Q T R V I T E R L A E R A L H D A V A K			
UniRef90_R716D1	I I G E N K A R S A E Q T I T H A L L P N P V E V I V Y E D M F R P E I A Q E I V E Q			
UniRef90_K9ESD8	V G K P R V F K A Q E T T L H N L N P D I E I E A V C E Y V S D N N I G V L V Q Q			
UniRef90_C5ZVB6	L E E K N K A L S A K E K L E S L L P E I K I N I N Y K E R L N V S N I L G I I K D			
UniRef90_A4FWU4	I I G I K K V I S A K E K L K S I N S E I I E I Y P E K V N E S H I I K N			
UniRef90_UPI0003496D3F	L L G Q A K T K A A S K V L L A S L N S E D I T L E P L I C Q R A S A H T L S A A L S G G			
UniRef90_C5DJG9	V G M L K C E S A K D V L R K L N P H V Q I K T Y P V R L N Y S N A F S I F Q G			
UniRef90_A0A023HW83	I I G L S K V D V A T R F V N K L N R D V E V I G L K A A I G P R N F N T V L N D			
UniRef90_K5X4Z4	I I G L S K V A V S A A Q A L N Q I P G C H V I A H V C A L S R N A L E I L Q A G			
UniRef90_F4NU54	I I N T S K T D S A A T A V R S I S S L V Q C T T Y T N T L I D Q S N V L E I V S G			
UniRef90_UPI00046FB09A	N K T P K A V A A Q R R L Q E I N S S V E I K S Y I Q D A G A N E L E Q L A K E			
UniRef90_A4RPM5	V G M L K V D S A I S Y L R E L N P L V K Y N A H Q S H L T P E N A E S I V S G			
UniRef90_B6EGV3	I I K Q N K A L A M A Q E L Q S I N K T I T I E V I T K H L T E P A L S R F I T Q			
UniRef90_F5Z488	V G Q S K V M A A K V R L S Q M N S D C E I V S I E A S L P E I N T H K L F G E			
UniRef90_A8L2B2	I I G G S R V A C A E Q T L R A H H P G V E I V A I D R E L S Q P E L G R L V A E			
UniRef90_N1MKJ2	V G A P K A E V A M A A V A R L N P D V K L I P I N A R I I D A D N A A L M L R D			
UniRef90_S4ZER7	V G R P K A V S A R E S M L A I N P L V D V R L H E V R L D S T N A V K L F G C			
UniRef90_B6BVJ3	L L K T N K A H S A K G F I S S N S N I S I N V D K K L S E N E F D I Y V N K			
UniRef90_UPI0003743390	V G R V K V E V A R E R L E E L Q P G I T V H A I N D R L R P D N A L E L F K G			
UniRef90_W7TXN7	L L G E A K V R S A E R R I K D V N P H V L V D V Y E E K M T A E N T L R I L A P			
UniRef90_F6FR07	V G G S P K T A S A A A A R T L R P D V R V E H G V R V L D A S N A R S L M E A			
UniRef90_Q7MGM5	L L A S P K V D A L A E Q L K Q L N Q D V R I K A H V T D V T P W N L E E L I G G			
UniRef90_K2GBC3	N R L P K A I A L K E K L E A I N Q D V R I K A H V T D V T P W N L E E L I G G			
UniRef90_UPI00034D5440	V G Q P R V Y K A R E T T L L S I N P D I Q V E A I A E Y V T P E N A D A L V A S S			
UniRef90_A0KWK0	I I G H H K A L I A K Q K L L A V L A Q D C E I D A V A E H L T I E S A N A V F K E			
UniRef90_L1M2W2	V G E L K V E S A R Q A L A R L N P L V K V I T H S D R L L E P G I A V E L F S R			
UniRef90_UPI000360AE02	V G S P K A T T A A N R M V Q H N P N V S F Q P Y P E R L E Q E K A L E I F S L			
UniRef90_UPI00047109BA	L L G Q S K S L T A Q K R L L Q K L N S H C I I R S F D E R F T E E N A V Q I A Q G			
UniRef90_UPI0002493457	V V N D L D K L N A M M R H L Q Q A A N S E V K I N L K D Q K Y S A D L I T D D			
UniRef90_C6V5Q1	V V Q Q L K V Y V A A K R R L N A F N P D C K I F C Y P M R I Q D C S E V I E G			
UniRef90_UPI0003B750A4	V V G R T K L K S A R D A V A E L N P L V T V R L H D T R L L D S H N A L A L F A D			
UniRef90_A4TS26	I I G H N K A R L A Q R H L Q Q L N P Q I R I V A L D T R L L T G Q V L T D A V A N G			
UniRef90_UPI0001E89D0F	A R E P P K A V A A K Q R L L Q L I N S E V E I N A H V A D V T A D M L D A L V K G			
UniRef90_D4E0G8	V V P Q G K A R L A Q R H L Q A L N P L V E S I A L E Q R L H G E E L A A A V R R			
UniRef90_A0A024PKL2	I I E R I P K A I A T K Q R L Q E I N S S G I D I T A L V E D V Q I E E I E R Y S N G			
UniRef90_F9MMB2	L L G I S K V E S A R Q R Q R L M T I L N S S Q V H L H T Y Q E R V T K E V L R Q L L D E			
UniRef90_R5WDC9	I I G Q P K V D S A R E A L A R I N P H V R L V P L N A L L D E T A L A G Q I A D			
UniRef90_F5HBQ1	V V G M N K A E S A C Q A L R A L N K N K I N L P H V P V I T P A T A L D I L R P			
UniRef90_A0A058YZG2	L L G R S K A E A L A E G Q I R A R N P S V K T T V J R E K L I D R Q S A I D L I Q Q			
UniRef90_F7XB94	I I G E L K V S S A A K S I Q A F N P D V A L N L H E I R L N E N N A L E I L A D			
UniRef90_W2TKN6	L L G M P K V D S L K E S I S E L N S T V N V V V H N I V L N K E C A L D V M R P			
UniRef90_Q0BNW9	T G A E K G A R L A A R I T A L D P S I V K V A I R H A R F D E S A A P S			
UniRef90_UPI000469B0D8	V V G V E K L T A M A N K N H Q A A N K N V I N T I S Q K Y S A E L L D T K			
UniRef90_D6DP00	I I L N Q P K A H V T R Q R L L N Q L N P D I E L V A L Q T R L S G E D L Q R E V A L			
UniRef90_UPI000365bdb7	D D Q L P K A V A A A A N R I K Q I N A D I V T V H A H V M D C T A S D L T S L L D K			
UniRef90_F3WW16	R G T P K V E A A A A F A T R L N P H V V T T H R A R V T P D N V A D L L T G			
UniRef90_UPI0004768B36	I I G A P K A Q R A K D R L T A L D P R L H C D I H A V K A D A Q N L P A L L Q G			
UniRef90_R9H0W5	V V G I P K T E A A K K R L L S L N P H V T T V Y N T Q L T S Q N A M E I I I G G			
UniRef90_C6XZ10	I I I G G L K A E L A V N K L G L L N P D I V D F R A Y P F K L L G M E N A A E L I A V			
UniRef90_UPI000472E0F4	I I I G R N K V D S A R D T L L A L N P E I E V T A L D R A L D D L D A Q V A A A			
UniRef90_L0A9V4	I I I N S L P K A I V C E K G I K G E I D N D I E V E T E T L I D D F D S T N A E E F L K D			
UniRef90_D0Z159	L L G R N K A V Q A S T Q L S Q L N P T V S I V P L T S H L H D N G L V D A I S R			
UniRef90_U7PD44	E E M R P K V Y A L A D K K L K V I N S N V E V D P L Y E E I T S T N I E T M I Q D			
UniRef90_F7A1S8	R K K M R K T S S A A E A A L Q I K V K I N S N V K V D E Y C L Q L D R E N A L G I V G K			
UniRef90_X5GX87	I I J H K L K V D A A A Q T R L K A F N P D C K I H R Y P A R I Q D C S E I I I S E			
UniRef90_UPI0004686A12	E E K L P K A I A A A E R K L R R I N S E I K I I E G I V G D V T P M N I D S F G Q D			
UniRef90_I5BSD3	V V G M E K V E S A R A S I A R I N P H V V T V E T H P I R L D A E N A A G I I A T			
UniRef90_S4W5N1	V V N K K K I L L A A K S K L K A L N P E V T I E T D D V F F D D K N G E E L L L			
UniRef90_A6R0V8	V V G K F K V D S A I L H Y K L K E L N P Y P K Y I P Y R V N L T S A D A P S I F S P			
UniRef90_B3T629	V V G Q V K V E T A A K K L R K I N P D I V I E E L P V P V S I N D Y T A I D V V D G			
UniRef90_S2XD68	E E S V P P K V I A A A Q Q M L H A I R R D V E I E T F I L E H V D S A F L E R I V P E			
UniRef90_W6RAR4	I I G E L K T G S A A F A I A R L N P H V V I R F E E R F S P D S A R R H L S G Q			
UniRef90_H0HJU4	I I I G M A K T Q S A R A A I I S K A L N P H V E V R P H A L R L T P A N A L D L I D G G			
UniRef90_Q13EN4	I I I G K R K V D S A A A A R I I S K A L N P H V E V R P H A L R L T P A N A L D L I D G G			
UniRef90_UPI0002485EAD	I I I G R P K V E S A A D A V A R I I N P H V V T V V Q H N T R L T A D N A V D I I A G			
UniRef90_J0PYZ1	I I I N Q R K T E S A Q I T I K E I I N P H V V T V E K H N L R L N K S N V D K L L N V			
UniRef90_M7NVZ6	L L G Q K K V N S A I E Y L E D L N P F V K F V N V Y S T H I S P S S A I D I I K P			
UniRef90_R9ABN0	I I I G M H K A Q S I N Q A A G G Y I N V K V V P V L E S F N S T N A Q S L L H Q			
UniRef90_F2IYE7	L L G E P K V A S A A E A I A R L N P H V V R V E P H P T R L A P H N A M A L L V S G			
UniRef90_Q3SWN5	I I I G S P K V E S A A D K I I R A L N P H V V A F F R A H M R L D A S N A M A L L V S Q			
UniRef90_F8NXD6	V V G M Y K S I S A G Q S I K R K L N S R I K I D V I I E A L H R S S N A V S I L L Q S			
UniRef90_B6QE15	V V G K Y K V D S A I Q Y L E E L N P H V V K Y H A Y R E H T S Q N A P L I F Q N			
UniRef90_UPI00047A89EC	I I I G R G K A Q A L A D F L R S R N G D C R V E A R A E R I D A A S L A A L P R			
UniRef90_UPI0004207D44	A D D M P K A E A A A K A R L L E A V V N S E I R I I D A V T G E A D L A F L E R V Q P			
UniRef90_V4Y2G4	V V G R P K V E S A R E Y V E A L N P D V V A V D A R R T R V E R S N A A A L V E G			
UniRef90_R7SNB7	V V G M P K V L S A A E A V V K Q L N S S F V K V N A I T T S A L S A L N A L E L L A P			
UniRef90_T0LT78	T G K N K A E T A A R V L S S F N S D V A V S A V P E N L N A G N A R E I I E G			

		130	140	150	160
UniRef90_G4QN21	H D I V L   D C S D N   D T R N T   L   N D V C Y T T N   L   P   L   V   S   G   A   I   R   M   E   Q   G   V				
UniRef90_L7LHE9	Y D L I L   D G T D N F A T R Y   L   V   N D A A L   L   A G K P   Y   V   W G S   I   Y   R   F   Q   G   Q   V				
UniRef90_K4LDW7	Y D I V V A   A L   D N E F T R Y   L   I   N E V C   V   T   L   R   K   P   L   V   E   G   G   V   L   G   F   S   G   R   L				
UniRef90_A7IA80	A D G I V D   A M D N Y   P   T   R   Y   L   I   N D A C   I   L   L   N   K   I   M   V   Y   G   A   L   H   K   F   E   G   Q   V				
UniRef90_C0BFS8	Y D I I V D G T D S   L   K   S   R   Y   L   I   N D A C   V   K   H   G   K   P   W   I   Y   G   A   A   V   G   S   F   G   M   S				
UniRef90_G2LJ45	A D V V L   D G T D N F E T R Y   V   L   I   N D A C   V   L   T   R   K   K   P   F   F   H   G   A   I   R   G   F   Y   G   Q   A				
UniRef90_E5WGZ7	V D L I L   D S T D N F S T R E   L   I   N K Y   A   E   N   N   I   P   W   I   Y   G   G   V   A   A   F   G   M   A				
UniRef90_R7RTF0	C D I I I   D A T D N F S T R E   L   I   N K Y   A   E   N   N   I   P   W   I   Y   G   G   V   A   A   F   G   M   A				
UniRef90_UPI00037DA889	A D V V I   D C T D R F S S R Y   A   I   N   R   A   S   L   Q   T   G   T   P   L   V   S   G   A   A   I   R   F   F   E   G   Q   L				
UniRef90_UPI0003F77F6E	A D L V L   D C T D N M A S R Q   L   I   N   K   A   C   V   D   A   K   V   P   L   I   V   S   G   A   A   I   R   F   F   E   G   Q   L				
UniRef90_Q1QXC3	A D V V L   D C T D G F A S R   H   A   I   N   R   A   C   V   A   T   R   T   P   L   V   S   G   A   A   I   R   F   F   E   G   Q   L				
UniRef90_E6W4L4	Y D F V V E   A T D   I   H   V   K   F   L   V   N   D   A   C   V   L   V   Q   G   P   F   S   H   G   G   I   R   E   F   T   G   Q   T				
UniRef90_A1S6Q7	A G I V L   D C T D N F T A R   H   L   I   S   A   Y   C   A   K   H   G   K   T   L   I   S   G   A   I   A   G   F   D   G   L   L				
UniRef90_L9L9Q1	Y D V V A   D C S D N V   P   T   R   Y   L   V   N   D   A   C   V   L   A   G   R   P   L   V   S   A   S   A   L   R   F   F   E   G   Q   L				
UniRef90_E0IBV9	T D L I I   D G T D N F S T R Y   L   N   E   I   S   V   K   Y   D   P   W   I   Y   G   G   A   V   G   G   S   G   M   T				
UniRef90_UPI00035EC2FA	A D V V L   D C T D R F A S R   D   A   I   N   R   A   C   V   A   S   A   T   P   L   V   S   G   A   A   I   R   F   F   E   G   Q   L				
UniRef90_R716D1	Y D I V V D   G   V   D   N   F A G K   F   L   I   N   D   A   C   V   L   E   K   K   P   F   V   H   G   G   I   L   G   W   K   G   Q   V				
UniRef90_K9ESD8	A D I A   L   D C A F D F K   K   E   R   D   L   L   I   N   S   A   C   V   R   W   Q   K   P   M   V   E   A   A   M   N   S   M   E   A   Y   L				
UniRef90_C5ZVB6	Y D I I V E   S T D A F A S K   F   L   V   N   D   A   C   V   L   G   G   K   I   L   V   R   A   S   T   L   H   F   C   G   Q   A				
UniRef90_A4FWU4	S D V I V   D C L   D N F E A R   Y   L   L   N   K   F   S   N   K   Y   K   I   P   L   V   H   G   A   I   E   D   L   R   G   Q   V				
UniRef90_UPI0003496D3F	C D L V L   D C S D N F A T R   Y   L   L   N   K   T   C   K   E   A   Q   V   P   L   V   S   G   A   A   V   G   H   Q   G   H				
UniRef90_C5DJG9	Y D I V L   D C T D T   P   L   T   R   Y   L   V   S   D   V   A   V   C   L   G   M   T   V   V   S   A   S   G   L   G   S   E   G   Q   L				
UniRef90_A0A023HW83	V D I V V D   C   V   D   R   L   A   V   K   L   F   L   N   D   A   C   V   A   K   N   K   V   L   I   H   S   V   A   I   G   F   V   G   E   L				
UniRef90_K5X4Z4	Y D I I L   D C O   T   D   N   P   P   T   R   Y   L   L   S   D   S   V   A   K   L   G   K   P   L   V   S   G   A   A   Q   K   F   E   G   Q   L				
UniRef90_F4NU54	Y D V V D   G   S   D   N   V   A   T   R   Y   L   N   D   A   C   V   L   L   G   K   P   L   V   S   G   S   A   L   R   M   D   G   Q   L				
UniRef90_UPI00046FB09A	S D L I I   D A T D N F E T R   F   M   M   N   D   A   A   V   K   Y   N   I   P   L   I   Y   G   A   C   V   G   A   Y   G   V   T				
UniRef90_A4RPM5	Y D L V L   D C T D H   P   T   S   R   Y   L   I   S   D   V   C   V   L   L   R   K   P   L   V   S   A   S   A   L   R   T   D   G   Q   L				
UniRef90_B6EGV3	V D V V L   D C T D N   L   T   T   R   H   N   I   N   A   C   V   Q   H   Q   V   P   L   I   S   G   A   I   G   W   Q   G   Q   L				
UniRef90_F5Z488	H D I V L   D C T D N T   Q   S   R   D   L   I   N   R   L   C   Y   K   H   G   V   P   L   I   S   G   A   A   I   R   F   E   G   Q   L				
UniRef90_A8L2B2	A D V V V   D A R   H   N   F   P   D   R   Y   L   L   N   D   T   C   V   A   A   R   T   P   A   V   V   A   M   N   A   T   E   G   N   M				
UniRef90_N1MKJ2	A D A V L   D G S D S F T T   T   R   L   A   V   A   D   A   A   Q   R   L   R   I   P   L   V   S   A   V   G   P   F   E   G   Q   I				
UniRef90_S4ZER7	Y D L I V   D G T D N F A T R   Y   L   I   N   D   A   A   V   L   A   K   K   P   Y   V   W   G   S   I   Y   Q   F   E   G   Q   I				
UniRef90_B6BVJ3	Y D A I L   D C S D N F Q T   R   Y   S   V   N   K   V   A   F   K   N   K   I   P   L   I   S   G   S   A   I   R   F   E   G   Q   L				
UniRef90_UPI0003743390	V D L V L   D G S D S F T T   K   Y   L   V   A   D   A   A   E   I   T   G   T   P   L   M   W   G   T   V   L   R   F   H   G   D   V				
UniRef90_W7TXN7	Y D V V V   D G T D N F P   T   R   Y   L   I   N   D   A   C   V   I   L   G   K   P   L   V   Y   G   A   I   L   R   F   E   G   Q   A				
UniRef90_F6FR07	Y D L V V   D G   C   D   T   D   N   F   P   A   T   R   Y   A   V   S   D   A   V   A   L   G   P   L   V   Y   W   G   S   V   L   G   W   D   G   Q   V				
UniRef90_Q7MGM5	A D I V L   D C T D N F E   I   R   M   I   M   M   N   D   I   S   Q   K   H   N   I   P   W   I   Y   G   A   V   V   G   S   Y   G   I				
UniRef90_K2GBC3	V D L M   D A T D N F E   I   R   M   I   M   M   N   D   I   S   Q   K   H   N   I   P   W   I   Y   G   A   V   V   G   S   Y   G   I				
UniRef90_UPI00034D5440	A D I A L   D C A H   H   N   F   I   E   R   D   L   L   N   A   A   C   V   K   A   G   K   P   A   I   E   A   A   M   N   G   M   E   A   Y   L				
UniRef90_A0KWK0	A R L V L   D C T D N   L   A   A   R   H   C   I   N   R   L   C   I   E   H   A   H   P   L   V   S   A   S   I   A   A   F   N   G   Q   L				
UniRef90_L1M2W2	Y D I I L   D G T D N F E T R   Y   L   V   N   D   A   C   V   I   L   N   K   P   L   V   F   W   G   S   I   F   R   F   E   G   Q   A				
UniRef90_UPI000360AE02	Y D I I L   D G S D N F E T R   Y   L   V   N   D   A   C   V   I   L   N   K   P   L   V   F   W   G   S   I   F   R   F   E   G   Q   A				
UniRef90_UPI00047109BA	Y D I I V   D G   C   D   N   L   S   T   R   Y   I   M   D   Q   V   A   E   Q   L   S   P   Y   L   Y   G   A   V   D   S   W   R   G   Q   I				
UniRef90_UPI0002493457	Y D L V I   D C T D N F P   V   K   Y   Q   I   N   Q   D   C   Y   Q   K   N   V   P   H   I   F   A   T   C   A   G   N   Q   G   Q   A				
UniRef90_C6V5Q1	C E V V L   D G T D N F A T R   Y   L   V   N   D   A   A   A   L   L   G   K   P   C   V   W   G   S   I   F   R   F   D   G   Q   V				
UniRef90_UPI0003B750A4	Y D L I V   D G T D N F A T R   Y   L   V   N   D   A   A   A   L   L   G   K   P   C   V   W   G   S   I   F   R   F   D   G   Q   V				
UniRef90_A4TS26	A D L V L   D C S D N M E T   R   H   Q   V   N   A   A   C   V   T   A   Q   K   P   L   I   S   G   S   A   V   G   F   S   G   Q   L				
UniRef90_UPI0001E89D0F	F D L L L   D A T D N F D   I   R   M   I   M   N   D   I   S   Q   K   H   G   I   P   W   I   Y   G   A   C   V   V   G   S   Y   G   I				
UniRef90_D4E0G8	A D L V L   D C S D N F A T K   F   L   I   N   D   V   C   V   E   E   K   P   F   V   H   A   G   V   L   A   M   Q   G   Q   L				
UniRef90_A0A024PKL2	V D L I I   D G T D N F E T R   M   L   I   N   D   F   A   Q   Y   R   I   P   W   I   Y   G   G   C   V   G   S   N   G   M   S				
UniRef90_F9MMB2	Y D I V V   D G T D N F A T K   F   L   I   N   D   V   C   V   E   E   K   P   F   V   H   A   G   V   L   A   M   Q   G   Q   L				
UniRef90_R5WDC9	H D L V L   D C T D N V   A   T   R   N   Q   L   N   A   G   C   F   Q   H   T   T   P   L   V   S   G   A   I   R   M   E   G   Q   I				
UniRef90_F5HBQ1	Y S M I L   D C T D R   P   L   T   R   Y   L   L   S   D   A   A   V   R   L   D   V   P   L   V   S   G   A   I   S   S   A   G   Q   W				
UniRef90_A0A058YZG2	Y D I V L   D G T D N V   S   I   R   Y   A   L   S   D   A   C   V   A   T   G   R   V   L   V   S   G   S   A   L   R   G   W   H   G   Q   L				
UniRef90_F7XB94	Y D L V I   D G S D N L   A   T   R   Y   V   V   S   D   A   S   T   L   L   N   I   P   M   I   Y   G   A   I   F   R   F   E   G   Q   V				
UniRef90_W2TKN6	Y D I V V D   C   S   D   N   P   A   T   R   Y   L   T   N   D   A   C   V   I   L   N   K   P   L   V   S   G   S   A   L   R   R   W   E   G   Q   V				
UniRef90_Q0BWN9	G N I L I   D A T D N F E T R   F   A   L   N   A   F   A   H   A   H   A   R   Y   L   V   S   G   A   A   S   G   W   S   G   Q   V				
UniRef90_UPI000469B0D8	Y D L V I   D C T D N F P   V   K   Y   Q   I   N   Q   D   C   Q   E   R   G   I   K   H   I   F   G   T   C   A   A   N   Q   G   Q   V				
UniRef90_D6DP00	A D V V L   D C T D N M A T   R   Q   A   I   N   A   A   C   V   A   Q   N   T   P   L   I   T   A   S   A   V   G   F   G   G   Q   I				
UniRef90_UPI000365bdb7	V D L M   D A T D N F A   I   R   Y   I   I   N   D   A   A   Y   Q   Y   Q   I   P   W   I   Y   G   A   C   S   G   S   Y   G   V   V				
UniRef90_F3WW16	A D V V L   D G C D D   F   E   T   R   F   A   V   I   N   H   A   A   I   A   A   Q   P   L   I   S   G   A   A   V   G   Q   F   E   G   Q   L				
UniRef90_UPI0004768B36	V D V V L   D G C D D   F   E   T   R   F   A   V   I   N   H   A   A   I   A   A   Q   P   L   I   S   G   A   A   V   G   Q   F   E   G   Q   L				
UniRef90_R9H0W5	Y D V V A   D G T D N F P   T   R   Y   L   V   N   D   A   C   V   L   L   N   K   P   N   V   Y   A   S   I   F   Q   F   E   G   Q   V				
UniRef90_C6XZ10	Y D L I I   D G S D N F P   T   R   Y   L   V   N   D   T   C   V   A   L   N   K   P   L   V   Y   G   S   I   F   R   F   E   G   Q   V				
UniRef90_UPI000472E0F4	D A V   D A T D N F E S   R   F   A   L   N   A   A   C   R   R   Q   R   T   P   L   V   S   G   A   A   I   R   M   E   G   Q   I				
UniRef90_L0A9V4	V D L I I   D G T D N L   D   A   R   F   L   I   N   D   V   S   V   K   N   N   I   P   W   I   Y   A   G   V   N   S   W   Y   G   N   V				
UniRef90_D0Z159	V D L V L   D C S D N F T   T   R   Y   A   V   N   K   A   C   M   E   C   Q   I   P   L   I   S   G   A   A   I   G   W   Q   G   V				
UniRef90_U7PD44	P D I L L   D G M D   H   F   A   I   R   F   L   F   N   E   V   C   H   K   L   N   L   P   W   I   Y   G   A   A   V   G   G   K   G   S   V				
UniRef90_F7A1S8	Y D V V L   D A T D N V   P   S   R   Y   L   I   N   D   V   C   V   L   N   K   P   L   V   S   G   S   A   L   R   W   E   G   Q   V				
UniRef90_X5GX87	Y E I I V   D C S D N F E T R   F   Y   L   I   N   R   L   C   H   L   L   K   P   L   I   S   G   A   V   I   G   Y   S   G   Y   V				
UniRef90_UPI0004686A12	M H   I   L   D G T D N F R   T   R   F   I   M   M   N   D   Y   C   F   G   Q   G   I   P   Y   I   Y   G   A   V   G   S   R   G   M   Q				
UniRef90_I5BSD3	Y D M V V   D G S D N F D   T   R   Y   L   L   A   D   T   C   E   A   V   E   R   P   L   V   T   A   A   V   V   G   R   F   D   G   S   V				
UniRef90_S4W5N1	T D V I I   D A T D N   K   S   R   Q   R   I   D   Q   V   S   K   K   L   P   T   V   Y   G   A   V   G   G   K   G   S   V				
UniRef90_A6R0V8	Y D L I I   D C T D N   P   A   T   R   Y   L   I   S   D   T   A   V   I   L   G   K   P   L   V   S   A   S   A   L   R   T   E   G   Q   L				
UniRef90_B3T629	C D V V V   D A L   D   S   V   N   A   R   Y   A   L   N   K   A   C   I   E   K   K   I   P   F   V   T   G   A   A   V   V   G   V   T   G   Q   S				
UniRef90_S2XD68	V D L I I   D M   A   T   D   N   F   E   T   R   L   L   I   N   D   A   A   Y   L   Y   H   T   P   W   I   Y   G   G   V   V   Q   S   T   Y   V				
UniRef90_W6RAR4	F D L L I   D G S D N F D   T   R   Y   T   A   A   D   A   A   E   T   A   Q   I   P   L   V   T   G   A   V   V   G   R   F   D   G   S   V				
UniRef90_H0HJU4	Y D I V V   D A G S D N F E T R   Y   A   I   V   S   D   A   C   A   E   E   G   K   P   L   V   H   A   A   V   V   G   R   F   D   G   S   V				
UniRef90_Q13EN4	C D L V L   D G S D N F A T R   Y   L   V   S   D   A   C   F   I   A   R   T   P   L   I   T   T   A   A   L   G   P   F   D   G   S   L				
UniRef90_UPI0002485EAD	Y D L V M   D M G   A   D   N   F   A   T   R   Y   V   V   S   D   A   C   T   L   T   G   T   P   C   V   W   G   S   I   L   R   F   D   G   R   I				
UniRef90_J0PYZ1	Y D I I V   D C S D N F T   T   R   Y   L   L   A   D   H   A   A   K   C   A   K   P   L   I   S   G   A   V   E   R   F   D   G   S   L				
UniRef90_M7NVZ6	Y D I I L   D C T D N Q   S   I   R   Y   L   I   S   D   T   C   V   L   K   P   L   V   S   A   S   A   I   R   T   E   G   Q   L				
UniRef90_R9ABN0	P D V V L   D C T D N P   S   T   R   Y   L   V   S   D   S   V   V   L   H   N   R   T   L   I   S   S   A   A   T   G   F   N   G   Q   I				
UniRef90_F2IYE7	Y D L V V   D D G T D N F A T R   Y   L   V   S   D   A   C   F   F   A   E   K   P   L   V   T   A   A   V   V   G   R   F   D   G   S   L				
UniRef90_Q3SWN5	Y D I V V   A E G   S   D N F A T R   Y   L   V   A   D   A   C   F   L   A   K   P   L   V   T   A   A   L   G   V   F   D   G   S   L				
UniRef90_F8NXD6	Y D I I L   D C T D N A   P   T   R   Y   L   I   S   D   T   A   V   R   L   G   K   P   L   V   S   G   A   A   Q   K   Y   E   G   Q   L				
UniRef90_B6QE15	Y D I I L   D C T D N P   A   T   R   Y   L   I   S   D   T   A   V   L   L   G   K   P   L   V   S   A   S   A   L   R   T   D   G   Q   L				
UniRef90_UPI00047A89EC	C D A V L   D C D N F A T R   H   A   I   N   A   A   A   V   V   V   A   N   V   P   L   V   S   G   A   A   V   V   G   F   A   G   Q   W				
UniRef90_UPI0004207D44	V D L L L   D A   D   N   F   D   T   R   M   L   L   N   D   F   S   Q   K   Y   N   I   P   W   I   Y   G   A   C   V   V   G   S   Y   G   L   T				
UniRef90_V4Y2G4	H D V V V   D A S   D N F P   T   R   Y   L   L   N   D   A   C   R   L   T   G   V   P   L   A   H   G   A   I   Y   K   F   E   G   Q   V				
UniRef90_R7SNB7	Y D L I I   D T C D N L   P   T   R   Y   L   L   S   D   T   A   V   R   L   G   K   P   L   V   S   G   A   A   Q   K   F   E   G   Q   L				
UniRef90_T0LT78	S T V V L   D G T D N L   A   T   R   R   I   I   D   R   V   C   Y   D   L   R   I   P   W   V   F   V   A   S   V   G   T   M   S   Q   V				

170            180            190            200

F C V I P K L K S A C Y R C V S H F F G E Q N V M S P V V G I I   G A T Q A N E A			
S V F W P D G R G V N Y R D L Y P Q C A E G G V L G V L C A S I   G S I M A T E E A			
U n i R e f 9 0 _ K 4 L D W 7	M T V L P G V G P C Y A C V F P P S G P L P V L S T S P G I I   G V L Q A H E V		
U n i R e f 9 0 _ A 7 I A 8 0	T T I I P E K T A C L R C I F P C A P P Q E V F P V T P G V I   G T I Q A T E V		
U n i R e f 9 0 _ C 0 B F S 8	S V F N Y E N G P S Y R C L F P N C S E I G V L G V L P G V I   G L L Q A T E V		
U n i R e f 9 0 _ G 2 L J 4 5	M T I I R P G E T P C L R C V F E E P P D A A L M P T C I Q T V   V A A A Q V V E A		
U n i R e f 9 0 _ E 5 W G Z 7	M T I I P G K T P C M N C L K K I P I Q G M T C D T G G I I   A P H Q A A E A		
U n i R e f 9 0 _ R 7 R T F 0	K T I I P K E T A C L K C F M K K R T N E E Y T S G I M N G I   T A V I G A I E A		
U n i R e f 9 0 _ U P I 0 0 0 3 7 D A 8 8 9	A I F D P R D S S P C Y A C L Y P P C A E N G V V A P L V G V I   G T F Q A L E E A		
U n i R e f 9 0 _ U P I 0 0 0 3 F 7 7 F 6 E	M F F D H S E T D P C Y H C L F P S S E E Q T I I I G P V V G T I   G T L Q A L E E A		
U n i R e f 9 0 _ Q 1 Q X C 3	A V F D A R D A S P C Y A C L Y G R C A E N G V I A P L V G V I   G T F Q A L E E A		
U n i R e f 9 0 _ E 6 W 4 L 4	L T V N P Q G T A C L R C I F P E A P E L G V L G S V A G M L   G T I Q A T E A		
U n i R e f 9 0 _ A 1 S 6 Q 7	F V Q R P G E G G C Y Q C L F Q N C A A V G V M G P A V A I V A S M Q A Q L C   C		
U n i R e f 9 0 _ L 9 L 9 Q 1	T V Y H Y D G G P C Y R C V F P Q P P A E T V T N C T G V L   G C L Q A L E V		
U n i R e f 9 0 _ E 0 I B V 9	M T I I L P G E T P C F R C L F P S P P T A G V V I S P I I D I I I G S L Q A A E A		
U n i R e f 9 0 _ U P I 0 0 0 3 5 E C 2 F A	A V F D R D P E A P C Y A C L Y G T C A E S G V I A P L V G V I   G S W Q A L E E A		
U n i R e f 9 0 _ R 7 I 6 D 1	F T Y I P P D K T C C Y R C I Y E E L P K G E S P N C P G I   G S M Q A L E V		
U n i R e f 9 0 _ K 9 E S D 8	T T I I V P G H T P C L T C L F P E K P D W D R W G F V S G T L   A C L A A L E E A		
U n i R e f 9 0 _ C 5 Z V B 6	M S I I K P K E S A C Y A C L F D S P P Q G E V P G A V A G L F G C I   E A N E V		
U n i R e f 9 0 _ A 4 F W U 4	T T I I V P D E T P F P V C L F P V T P G V I   G S I Q A S E A		
U n i R e f 9 0 _ U P I 0 0 0 3 4 9 6 D 3 F	A L F D F G N T S P C Y A C L F P P H S D N P T A N C A T L G V I S P L L G I V		
U n i R e f 9 0 _ C 5 D J G 9	S I L N F A S V G P C Y R C F Y P V P P E G G V I G P C I G L V   G V M M A V E T		
U n i R e f 9 0 _ A 0 A 0 2 3 H W 8 3	M V I N P G K S P C Y R C F F E Q Q P R A G V I G A T V G V V   G S M A A G E V		
U n i R e f 9 0 _ K 5 X 4 Z 4	C T Y N L G D D G P C Y R C C F P R P E L G I L G A V T V G V I   G N L Q A L E E A		
U n i R e f 9 0 _ F 4 N U 5 4	T V Y N H Q G G P C Y R C F P V P P P E T V S N C N G L I   G C M Q A L E V		
U n i R e f 9 0 _ U P I 0 0 0 4 6 F B 0 9 A	Y T V I P G K T P C L N C A M P T C D T V G V I M P V V T Q V T S H Q V I E A		
U n i R e f 9 0 _ A 4 R P M 5	I V L N T P A A P P C Y R C V F P K P P E G G I L G P V V G V M G V L Q A L E E G		
U n i R e f 9 0 _ B 6 E G V 3	M L F S N K S D E S C Y H C Q T K N C Q S F G I V G P V V G M I G N L Q A L E T		
U n i R e f 9 0 _ F 5 Z 4 8 8	F V A K P G E S Q C Y A C L R R L F C T E A G I F S P I V N I V G T Y Q A L L A		
U n i R e f 9 0 _ A 8 L 2 B 2	L V V R P G S P C L R C V F T E G D P S W V L G A V S G M V G C L A A T E A		
U n i R e f 9 0 _ N 1 M K J 2	A T Y R G W E D K P C Y R C P E R N C A E T G V I I M A L T G A M G S L A A L E V		
U n i R e f 9 0 _ S 4 Z E R 7	S V C W P D G R G L N Y R D L Y P E C A E G G V L G I V C A S I   A S V M S T E V		
U n i R e f 9 0 _ B 6 B V J 3	A I F D R S N S S A C Y E C L F P D N G E H G I L A P V V I G I I G V M Q S L E T		
U n i R e f 9 0 _ U P I 0 0 0 3 7 4 3 3 9 0	A L F N S S P G H R P D A D S V P D C A T A G V L G A T T A V V G S L M A T Q T		
U n i R e f 9 0 _ W 7 T X N 7	S V F N Y R L P E P P A P G D V P S C A E G G V L G V L P G V I G C I Q A T E T		
U n i R e f 9 0 _ F 6 F R 0 7	A V W W P D G L A L T Y P D V F E T C A T A G V L S P A C G V V G A T M A V E A		
U n i R e f 9 0 _ Q 7 M G M 5	I A F D F S S Y H P C Y R C M Q T K C S D A G V I V G P V V G L M G N Y Q A I A T		
U n i R e f 9 0 _ K 2 G B C 3	S Y T I I P G E T S C L H C M M E Q C D T A G I I I S P I V Q L V T A H Q G A E A		
U n i R e f 9 0 _ U P I 0 0 0 3 4 D 5 4 4 0	T T I I V P G K T P C L S C L F P E K P D W D R R G F V S G A L   A C L T A L E E A		
U n i R e f 9 0 _ A 0 K W K 0	F A Q Q R F P Q G G C Y H C I F P S D T R A P Q N C S S Q G V L G P N Q T F E E E		
U n i R e f 9 0 _ L 1 M 2 W 2	S V F W P D G R G L N Y R D L Y P S C A E G G V L G V L C A I   A S I M A T E A		
U n i R e f 9 0 _ U P I 0 0 0 3 6 0 A E 0 2	S V F N F E N G P T Y R C L F P P P D A G V L V G L P G V I G T L Q A L E E A		
U n i R e f 9 0 _ U P I 0 0 0 4 7 1 0 9 B A	A L F F H Y Y R Q L F P Q K D L H Q E K R E I P V V G A A V G I I I S S I M A T E V		
U n i R e f 9 0 _ U P I 0 0 0 2 4 9 3 4 5 7	M F M K S Q D D A C L E C L Y P H Q N A N G T N P M I V A I T G S L E A S M A		
U n i R e f 9 0 _ C 6 V 5 Q 1	I V L K P F D D S P C Y R C F G E P E A C F K G S C E D T I G S I Q A M K V		
U n i R e f 9 0 _ U P I 0 0 0 3 B 7 5 0 A 4	S V F W E K H G P T Y R D L Y P E P P E G G V F G M L C A A V G G S M M V T E A		
U n i R e f 9 0 _ A 4 T S 2 6	L V I E P P Y A Q G C Y A C L Y P N C R T A G V L G P V V G V I G T L Q A L E E A		
U n i R e f 9 0 _ U P I 0 0 0 1 E 8 9 D 0 F	S F T I I P F G E S P C Y R C Q C L Y P E C T D V G V I I A P A V G M V V A H Q V A E A		
U n i R e f 9 0 _ D 4 E 0 G 8	L V I E P P Y S Q G C Y H C I F P E H A E P Q V L G P V V G V I G T L Q A L E E A		
U n i R e f 9 0 _ A 0 A 0 2 4 P K L 2	Y T I I P G K T P C L S C M G G A T C D T V G V I S P A V I Q M V T S H Q V T E A		
U n i R e f 9 0 _ F 9 M M B 2	M T Y V P H K S P C Y R C V F E D E P D V G I I G A I A G T L G T L Q A M E V		
U n i R e f 9 0 _ R 5 W D C 9	S V F T Y Q D G E P C Y R C N A L T C V E A G V M A P L V G T I G S L Q A M E A		
U n i R e f 9 0 _ F 5 H B Q 1	A V Y K S G K R R A C Y R C W P T C E E Q V W G V V T T G M V G V G M A G E A		
U n i R e f 9 0 _ A 0 A 0 5 8 Y Z G 2	T I Y N G S E D G P C Y R C L H P R P P P Q V V A M P G L I G L I Q A L E T		
U n i R e f 9 0 _ F 7 X B 9 4	S A F W P N G P S P C Y R C L F P E C S E V G V L G V L P G V I G T I M A T E A		
U n i R e f 9 0 _ W 2 T K N 6	T V Y N Y I D P N P C Y R C H V T N C S E G G V L G P V V G V I G S L Q A L E V		
U n i R e f 9 0 _ Q 0 B W N 9	S V F A L V P E A P C Y R C W I S E M P E V G V V G A L T G M T G S A M A L E A		
U n i R e f 9 0 _ U P I 0 0 0 4 6 9 B 0 D 8	M F I D S E S A C L E C L Y P K D K N I G T N P M I V A I T G S L Q A S L A		
U n i R e f 9 0 _ D 6 D P 0 0	M V L T P P W A Q G C Y R C L C P D E A E P E R N C R T A G I M G T L Q A L E A		
U n i R e f 9 0 _ U P I 0 0 0 3 6 5 B D B 7	C N F I I P G Q S P C L H C V M E R R M P I G S A S C D R E G I I A P M Q S A E A		
U n i R e f 9 0 _ F 3 W W 1 6	A V Y R G W E D K P C Y R C F V G D C A D D G V L G P V V T G V M G S L A A L E T		
U n i R e f 9 0 _ U P I 0 0 0 4 7 6 8 B 3 6	S V F A G H E E T A C Y Q C F V P D I P P E V G V V G P L T G T I C G S L M A L E A		
U n i R e f 9 0 _ R 9 H 0 W 5	S V F N Q V N E Q P N Y R D L F P T P P D P G A V P N C P G I I G S L Q A L E V		
U n i R e f 9 0 _ C 6 X Z 1 0	T V F N H K Y P E P P A A T E M P N C A E A G V I G T L P G I I T G T L M A N E A		
U n i R e f 9 0 _ U P I 0 0 0 4 7 2 E 0 F 4	U A F D P N D P K P C Y R C L Y R D D G G A E G E P C A L G I I G S V Q A T E T		
U n i R e f 9 0 _ L 0 A 9 V 4	M F I K P N V G P C L R C I C N Q S C D I L P S I G T M T S L V S S F S S N L A		
U n i R e f 9 0 _ D 0 Z 1 5 9	I S F G F H Q S S P C Y H C L Y P Q M A K M G V V G P L V G V I G A F Q A L E A		
U n i R e f 9 0 _ U 7 P D 4 4	Y A I D Y T G P C L R C F M E E T P E T A E S C A I N G V I P P V I I M Q V V		
U n i R e f 9 0 _ F 7 A 1 S 8	T T Y H F H N Y G P C Y R C L Y P K P P P E V I G V I P G I I G C M Q S L E A		
U n i R e f 9 0 _ X 5 G X 8 7	I V I K S F V S I E C Y Q C F C Y E K P K Q A I D H S C E G V I G S I Q S M K V		
U n i R e f 9 0 _ U P I 0 0 0 4 6 8 6 A 1 2	A S F I P E D T P C L R C L I E D C D T S G V L A P I I D M V A S L Q A I E A		
U n i R e f 9 0 _ J 5 B S D 3	T V L K P F E R M P G Y R D L F P E P P E A G V I V G A L T T G V V M G T L E A M E V		
U n i R e f 9 0 _ S 4 W 5 N 1	S I L N V N G S A G Y N E L F P N S C A D A G V L S M L P A I I G N I Q A L E A		
U n i R e f 9 0 _ A 6 R 0 V 8	M V L N Y P P Q K P C Y R C F V P K P D P D G G I L G P V V G M V L Q A L E A		
U n i R e f 9 0 _ B 3 T 6 2 9	F T I I L P N E S A C Y H C L F P A L D D E D S V H P S I L S I I G G I E V S E A		
U n i R e f 9 0 _ S 2 X D 6 8	E A P F I I P G E T P C F Q C L V P Q I P S M N L T C D T V G M T T S L Q L A D A		
U n i R e f 9 0 _ W 6 R R A 4	T V L K P K Y E P N P T Y R C L F P E K P E T G I I G A L T T G V V G T L M A M E A		
U n i R e f 9 0 _ H 0 H J U 4	T V L K P K Y E P N P T Y R C L F P E C E E A G V I M G A L A G M L G S M M A L E A		
U n i R e f 9 0 _ Q 1 3 E N 4	T T I I R A H E F N P T Y R C L F P E C E E A G V I M G A L A G M L G S M M A L E A		
U n i R e f 9 0 _ U P I 0 0 0 2 4 8 5 E A D	S V F W P E H D G I S Y R D L H P D A P A P G V I G S L P A T V V G S L M V T E A		
U n i R e f 9 0 _ J 0 P Y Z 1	T V L L M P Y D N N P H Y R D L F P N Q P E I G I I G A L T T G V V G T L Q A M E V		
U n i R e f 9 0 _ M 7 N V Z 6	C I Y G F R G S C C Y H C T D Q T C E G N G I L G M V V G M T L Q A L E V		
U n i R e f 9 0 _ R 9 A B N 0	T T L K P C Y E P N P T Y R C L F P P R P P P V Q I L G V V T G T L G T L Q A T E C		
U n i R e f 9 0 _ F 2 I Y E 7	T T L K P C Y E P N P T Y R C L F P P A P P E A G I I L G A L T T G I L G A M Q A L E A		
U n i R e f 9 0 _ Q 3 S W N 5	T T I I R A H E F N P T Y R C L F P E P P P E G T V P S C Q G V L G S M T A L E V		
U n i R e f 9 0 _ F 8 N X D 6	C V Y N F G V D G P C Y R C C L F P K P P E T G I I G A L T T G V V G T L Q A M E V		
U n i R e f 9 0 _ B 6 Q E 1 5	M V L N N P P K P P C Y R C C V F P K P P A D I L G P V V I G T M G V L Q A L E A		
U n i R e f 9 0 _ U P I 0 0 0 4 7 A 8 9 E C	A V F R P P Q Q G C Y A C L F Q A C A T F G V F S P L V G M V G T A Q A A A		
U n i R e f 9 0 _ U P I 0 0 0 4 2 0 7 D 4 4	Y T I I V P G Q T P C L H C L M E E I P T A G I I I A P A V Q M V V S S H Q T T E T		
U n i R e f 9 0 _ V 4 Y 2 G 4	T T L V P D G P C Y R C C L F P E A P E P G S I P D C		
U n i R e f 9 0 _ R 7 S N B 7	A V Y N L P E R G P C F R C L F P K P P A P E M A G S C T G V I G T L Q A L E A		
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210            220            230            240

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UniRef90_UPI00047109BA	I K T L L D L P D T L T G K L L L F D A L T □ Q Y N □ L L S I Q
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UniRef90_F7XB94	I K I I I L G I I G D P L I G R L L T Y N A L D C S F H D L E V P A N P H C E Q C
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	1	10	20	30	40
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UniRef90_D2RHM0	M D G Y A R Q I	P L I G E E G Q E K L	M K S R V L V G	G A G G	
UniRef90_L7WV16	D Q E Y R S R Q I	L F K H I K E E G Q H L	G Q K H V M I	G M G A	
UniRef90_UPI00026C6C3D	D L G R Y L R Q M R	P Q L G E T G Q R R L	A G A R V A V I	G A G G	
UniRef90_UP1000376EB72			K G Q E K I F K A K I	C L I G L G G	
UniRef90_W4TES0	S D D T F K R Y S R Q I	I F I E E I G L E G Q R K I	L A S K V L V V	G A G G	
UniRef90_M2YGA7	Q L S P E Q L R R Y A R N L	R V P Q I G E L G Q R R L	R A A T V L C	G A G A	
UniRef90_A0Z9B5	M N D N E L E R Y S R Q L	L V P G F E L E G Q E V L	S S A S V L I V	G C G G	
UniRef90_UP10002F415B2	L S D Q E Y M R Y S A H	L L E D V G E K G Q L A I	R H S K V L I V	G V G G	
UniRef90_UP10003699E4D	M N R Y D R Q I S V A E	F G V D G Q K K L	A A A K I L V V	G A G G	
UniRef90_B11124	E R Y A R N L S L P	G W T L E T Q Q R L	A E S G V L V V	G A G G	
UniRef90_UP10002FDD148	E R Y S R Q T L F K P	I G T Q G Q I N I	E K T V T V I V	G C G A	
UniRef90_G0CSL5	T S L P L S E L H R V S R Q M L	P G F G L S S Q Q E A L	H N A H V L V V	G I G G	
UniRef90_A4BXK9	M V P T K N Q L F K R Q I	T L Q E I G E V G Q Q K I	Q N A S V L V V	G C G G	
UniRef90_UP10003152E0A	R Y Q R N L L V D	D G F G E Q Q G Q S R	L E S T V T V I V	G A G G	
UniRef90_A2SPV8	R F L R Q I P L F G K E G Q K K L	A D A R I L L A G A G G			
UniRef90_UP100040BAAB1	F S P E E I E R Y A R H	V L A G V G G P G Q Q K L	K S A H V L V I	G A G G	
UniRef90_UP10004747D57	M E R Y S R Q I R Y K N F G R N G Q R K L	E Q T H V M I V	G A G A		
UniRef90_Q0G7U1	L N A D E L E R Y A R H	V L P E I G G T G Q Q K L	K A A R V L V I	G A G G	
UniRef90_J7F699	S L E E Y T R Y S K H	L I L P Q I Q L E G Q E R	K K S K V L I V	G C G G	
UniRef90_B6JCQ8	L T S E E L E R Y A R H	V L H E V G G Q Q G A A L	K A A K V L V I	G A G G	
UniRef90_M7YE82	M D R F Q R Q Y I V P	G F G K E A Q E K L	A K A K V L V I	G A G G	
UniRef90_F9L7R0	M S R Y D R Q T R H P	F G E D G Q H Q L	S T S Q I L V F	G A G A	
UniRef90_BOTY64	UniRef90_M4U715	R Y S R Q E L F E P I	G K E G Q A K L	R N K H V L V I	G A G A
UniRef90_U3TTI5	K I S E S E L E Y Y K R Q I	I L D G F G I D A Q K K L	K K F K V L I I	G V G G	
UniRef90_E0DI72	L S D P E T L R Y S S H	L L K D I G G A G Q Q K L	K S S K V L I I	G M G G	
UniRef90_F9DS39	M E R Y L R Q I M L P	E I G V V G Q Q K L	A R A R V L V I V	G A G G	
UniRef90_I4WZP4	N A R Y A R Q I S L P	G F G P E Q Q Q R L	A D A H V C C V	G A G G	
UniRef90_F2G2T1	M S K Y S R Q E L F T P	I G A D G Q R I	R G A K V F V L	G A G A	
UniRef90_U1XTA4	R Y S R Q E L F E P I	G K E G Q A K L	R N K H V L V I	G A G A	
UniRef90_C5KCL6	L D K Q D I Q R Y S R Q L	M L E S V E E D G Q A K L	A N S H A V V V	G L G G	
UniRef90_UP100040BD88E	L S P E E L S R Y S R N I	L L N E V K R A G Q E K L	K K S V V T V I V	G A G G	
UniRef90_Q7UJ43	S D M T R D E I E R G	C R M M S L P Q L S K	R P L H K C S F L V V G C G G		
UniRef90_AOA011TQC6	M E R Y N R Q I M L P	E I G E A G Q A K L	M S A T L M V M G A G A		
UniRef90_W5HU17	L D K H E Y K R Y G R Q L	I M P E I G L Q G Q L C L	N D R Y V R Q A Q F A P I G E A G Q A Q I	E S A R V A I L G C G A	
UniRef90_K1FMB1	L G A D E L A R Y A R H	V L P E I G G S G Q Q R L			
UniRef90_Q0U1Y0	S L S E E N V I R Y S R Q I	A L K E V G V S G Q V K L			
UniRef90_UP10003B5F3A8	L T P P E I L S R Y S R N I	L L D E V V K R K G Q E T K L			
UniRef90_Q5CTY0	M E R Y L R Q I M L P	E I G V V G Q Q K L			
UniRef90_V61970	N A R Y A R Q I S L P	G F G P E Q Q Q R L			
UniRef90_UP1000372CC4B	M S K Y S R Q E L F T P	I G A D G Q R I			
UniRef90_E8RA53	R Y S R Q E L F E P I	G K E G Q A K L			
UniRef90_UP10003625873	F S S D E V E R Y A R H	L V L R E V G G P G Q A R L			
UniRef90_B2GCL7	F T P P E I L S R Y S R N I	I G V E G Q A K L			
UniRef90_C6VPM4	L N R Y D R Q E R V T	V I G H D G Q R R I			
UniRef90_W0JEK8	F D R Q I P V L G D I C	Q E K L K N S R V F V G G A G G			
UniRef90_S2FHB4	E T T R Y A R Q I I L S E	V G T Q G Q Q R L R D S K V L V V G A G G			
UniRef90_C4L0I0	E R Y A R Q A R Q F H G I	G G D G Q E R L M V K V L V V G L G A			
UniRef90_F4AS52	F T A G E W L Q Y Q Q R H	V Q L N E M G V T G Q L R L K H A K V V I V			
UniRef90_A2BYV2	F S P E E I E R Y A R H	V Q L N E I G L K G Q L K L R K S S V V C O I			
UniRef90_UP100045E8861	F D K Y A K Y I N Q D I	P S D S L E K I F Q T K V L I I G L G G			
UniRef90_B3L6W7	S L T L D E E D R Y K R H	T L N E I G L K G Q L K L K A A T V L V I			
UniRef90_Q3IFN4	F T D K Y A K Y I N Q D I	P S D S L E K I F Q T K V L I I G L G G			
UniRef90_L1MM05	E L S D K E M L R Y S R H	L L K E V G L A G Q K L K L K S A S V A I V			
UniRef90_W7KK99	M R Y Q R Q T S L A G F G E A K Q Q R L	Q N S H V L I V G A G G			
UniRef90_UP10003B68CDF	S L T N Q Q L A R Y V R Q V S L A G F G G A A Q E K L	S S L K V L V V G C G A			
UniRef90_R9CPE3	I N N E Q F M R Y S R Q I F L	D K V G V V S G Q K K I M N A R V L V V G A G G			
UniRef90_B5Y779	N E R Y V V Q E K F P P L	G V E G Q G K L R K S S V V G V G G			
UniRef90_UP10003B5F5F3	E L T P A R L A R F S R Q L M L P	G F G E L A Q R R I Q A A R V L V V I G A G G			
UniRef90_UP1000463B6AC	E L T A A E L E R Y A R H L S P	G V G P E G Q R R L A A A R V L V V G A G G			
UniRef90_J7QT8B	S L P E E I E R Y A R H L V L	R D I G G P G Q S K L K H A R V L V V G A G G			
UniRef90_UP10004772F58	F S P E E V E R Y A R H L V L S E I G G P G Q Q K L	R D I G G P G Q S K L K H A R V L V V G A G G			
UniRef90_U3GZ85	S G L S E A E Y A R T E R N R V I	I G D E A Q R R R L H A S K V L M I G A G G			
UniRef90_F0P9C1	M T R Y H R Q I R F Q H F G E Q S Q R R L	Q Q L H V F V L M I G A G G			
UniRef90_W4VKJ0	M N I F D R Q K A I F S P E D M A R L	R A S T V M I A G V G G			
UniRef90_F8ADU7	E L E R Y T R Q K I L V G E D G Q K A L	K L E A T V M V A G I G G			
UniRef90_W4E830	D E K N H R Y S R Q I I L A Q I G E R A Q A R L	D K A K V L C G G			
UniRef90_Q85G13	E L S E F E R E L Y S R Q I I L V G E E G Q L K L	M D A H V L L I G C G G			
UniRef90_UP100037E6BA2	E L T P A Q V T R G S R H L L P G L	K K A R V L V A G L G G			
UniRef90_I3TDU5	E E Y N R Y G R Q M I V D E S G L P A Q L K L	R N A R V L V V G A G G			
UniRef90_F4H5C3	E Y Y S R L Y V L K N I G K E G Q L N L K R K T A A I V	T A A I V G L G G			
UniRef90_X1DC93	M N S D Q R K F F S R Q I R V P A I G E A G Q L K L	L S S S V A I V G C G G			
UniRef90_G0W729	E Y Y S R L Y V L K N I G K E G Q L N L K R K T A A I V	L S S S V A I V G C G G			
UniRef90_UP100037F821B	L T R E E L R R V S R P L L V P E W A E A G Q E K L	R A A R V L V V G A G G			
UniRef90_Q9RS58	R Y V R N K E T L T D Q D Q N K L L S S S V A I V	R A A R V L V V G A G G			
UniRef90_J7IW00	M R Y D R Q T I L L P E I G K T G Q E K I G K A K V L I V G V G G	R A A R V L V V G A G G			
UniRef90_S3UZZ7	Q H I R D C I G D D V F E K V Q K A K V L V V G A G G	R A A R V L V V G A G G			
UniRef90_W4PFZ4	L S E R E L E R Y D R Q I M I F G E E G Q E K L	L K S A K V L I I G A G G			
UniRef90_F4PUL5	U N I F D R Q K A I F S P E D M A R L	F G K E A M E K L K N S R V A V F G L G G			
UniRef90_X1CWS4	E L D Q F S R T E L L K G I G D E G Q R R L	L A N T R V A V V G A G G			
UniRef90_W8P3T9	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_R6D8T9	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_A0A031FLR7	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_E6X0B2	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_UP1000305D469	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_K5X840	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_R6PCZ2	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_C0SGB1	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_E2N4Y7	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_B6YW19	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			
UniRef90_R1BC70	U N I F D R Q K A I F S P E D M A R L	W G E E E A Q E R L A A K R I V I V G C G G			

	50	60	70	80
UniRef90_M1IMH9	L G T T [A E L L A R [L G V G K I K L I D A D [V E V T N L H R T T H L F E E S D			
UniRef90_D2RHM0	L G S V V I T Y L V S A G I G K I G I V D G D V V E E H N L Q R Q F I H A G N			
UniRef90_L7WV16	L G T H V A E G L I R A G I Q Q L T I V D R D Y I E L S N I H Q R Q T L F T E A K			
UniRef90_UPI00026C63CD	L G A P A L T Y L A A A G I G E I T L F D P D T V D A T N L H R Q V L F T E A D			
UniRef90_UPI000376EB72	L G C P I L Q Q L V S M G I G F L R I V N R D V V S I T D L H R Q Y L Y K P E D			
UniRef90_W4TES0	L G S S V I Q Y L A A A G G V G T L A V A D F D H V E E L H N L N R Q V I H D E N R			
UniRef90_M2YGA7	L G S P A L L Y L A A A G G V G T L A I V D D D V E E L S N I L Q R Q V I H G S E A			
UniRef90_A0Z9B5	L G A L A A Q Y L A A A G G V G H L A L V D A D R I V E E L T N L Q R Q Q I A Y T E D D			
UniRef90_UPI0002F415B2	L G A P V A L Y L A A A G G V G S L V L V D D D H V E E L T N L Q R Q Q I F T Q Q Q			
UniRef90_UPI0003699E4D	L A S P V L Q Y L A A G A G L G H I K V M D Y D I V S S V N N M H R Q T I F R A D D			
UniRef90_B11124	L G S A V L F Y L A A A G G V G R L A I I E D D R V E I T N L Q R Q Q V L Y G T D D			
UniRef90_UPI0002FDD148	L G S S I V E T L V R A G V G E I L V D R D Y V E E L S N I L Q R Q Q Q L F T E E D			
UniRef90_G0CSL5	L G C P I V Q Q L A A A G G V G K M T L I D H D T V D I T N I H R Q Q I L F S A D E			
UniRef90_A4BXK9	L G S P I A V Y L A A S G I G K I H L V D F D T V A L S N I L H R Q V F F S L D D			
UniRef90_UPI0003152E0A	L G S A V L N Y L V A A G G V G H I R I V E S D T V S P S N I L Q R Q Q V L Y T T A E			
UniRef90_A2SPV8	L G S A I A T Y L A A A G G V G Y Y I R I V D E D V E R S N I L N R Q I L Y Q E K D			
UniRef90_UPI00040BAAB1	L G S P L I L Y L A A A G G V G E I L G I V D D D E V S L S N I L Q R Q Q V L H G T P D			
UniRef90_UPI0004747D57	L G S H C A E I L S R M G V G E I L T I D M D I V E I S S N I L H R Q A T Y T E N Q			
UniRef90_Q0G7U1	I G S P V A L Y L A A A G G V G T I V C C D D D T V S L S N I L Q R Q Q V L H G T E D			
UniRef90_J7F699	L G S P A L I Y L A A S G I G T I G I V D N D I I D I S S N I L Q R Q Q I L H T T A D			
UniRef90_B6JCQ8	L G A P A L M Y L A A A G G V G H I G I V D G D E V S I S N I L N R Q V L F G E S H			
UniRef90_M7YE82	L G C P A L L Y L A A A G G V G H I G I V D G D E V S I S N I L N R Q V L F G E S H			
UniRef90_F9L7R0	L G S H I L D Q L A R M G A N H L T V I D M D I V E T S N I L H R Q T L Y D E E D			
UniRef90_B0TY64	V G S P V A T Y L T G L G E L S I V D D D S V S I S S N I L H R Q V L F D I D Y			
UniRef90_M4U715	L G S P A A A Y L A A A G G V G T I V I D F D V I E S S S N I L Q R Q Q I A Y S S Q D			
UniRef90_U3TTI5	L A A T L L P Q L T G A G G V G Q L C Y D D D Q V A L H N L H R Q T L F T L Q D			
UniRef90_E0DI72	L G S P A L L Y L A A A G G V G T I T I I D D D T V D V S N I L H R Q V I H T T S Q			
UniRef90_F9DS39	L G S S G A E M L V R A G V G E I T I V D R D I L E W S S N I L H R Q Q L Y A E Q D			
UniRef90_I4WZP4	L G T G C A E M L V R A G V G K I T I A D R D Y V E W S S N I L Q R Q Q L Y T E E K			
UniRef90_F2G2T1	L G S L V A R Y L V G A G G V G S I T L V D G D T V D I S S N I L Q R Q Q V T Y N E M H			
UniRef90_I0XTA4	L G S P A L L Y L G A A G G V G N I R I I D S D I V E T T N L Q R Q Q I I F K H S D			
UniRef90_C5KCL6	L A N T C A T Y I A A C P G C R I T L I D G D L V E A S N L Q R Q Q H Q Y S V K D			
UniRef90_UPI00040BDD8E	L G T H V S E M L V R M G A G K L I I I D M D I V E M T N L H R Q A L Y T E K D			
UniRef90_Q7UJ43	L G S V A S E L L V R A G V G H I R L I D R D L I E W S N I L Q R Q Q S L Y V E S D			
UniRef90_A0A011TQC6	M Q R Q Q V L H H D T D			
UniRef90_W5HU17				
UniRef90_K1FMB1				
UniRef90_Q0U1Y0				
UniRef90_UPI0003B5F3A8	L G S P I A L Y L A A G A G V G T I G V L G I V D G D D V E L N N L H R Q Q I I Y T E E E			
UniRef90_Q5CTY0	L G C P A A A Y L V G A G G V G T I G L V D N D D E V S L S N I L Q R Q Q V L H S T A R			
UniRef90_V6I970	I G S P V I Q Y L A A A G G V G W L T I I D D D H V D D L S N I L Q R Q Q T L F A T G E K			
UniRef90_UPI000372CC4B	L G S P I L L Y L T G A G I G V I G V D H D T V S T S N I L H R Q Q I I H S T D K			
UniRef90_E8RA53	L G G P L A L S L A A A G G V G R I I L A H G G E L R P D D L N R Q Q I L M T H E G			
UniRef90_UPI0003625873	L G S A V L Y Y L T A A G V G R I I F I D E G L V E L S N I L Q R Q Q I L Y T V D D			
UniRef90_B2GCL7	L G A P L I Q Y L A A A G I G T I G I A D D D T V S L S N I L Q R Q Q V I H G T P D			
UniRef90_C6VPM4	L G S Y V A E Q L V R A G V G H I I L V D P D Q V S S L T N I L Q R Q Q A L F D E D D			
UniRef90_W0JEK8	L G C I V C E L L V R S G V G K L Y I A D F D V I S E S N I L H R Q Q I I Y T T Q D			
UniRef90_S2FHB4	L G C P V I L Y L A G A G G V G T I G I V D N D T V D V S N I L Q R Q Q I I Y A I A D			
UniRef90_C4L010	L G A A V S D Q L V R A G V G S I I L V D R D Y V E V T N I L Q R Q Q T L Y T E Q D			
UniRef90_F4AS52	L G C P V A M Y L G A A G V G H I T I V D G D C I S Q T N I L H R Q Q V L F S F A D			
UniRef90_A2BYV2	L G S S V L I I Y L A A A G I G T I G I V D N D Q V E K S N I L Q R Q Q I I H E T N T			
UniRef90_UPI00045E8861	L G A P V L L Y L A A A G V G R I I L V E D D V V S S N I L Q R Q Q V I H R T Q D			
UniRef90_B3L6W7	L G S P V C L Y L T K F G F K E I G L M D G D T V E V S S N I L Q R Q Q I I H A E K H			
UniRef90_Q3IFN4	L G S P A L L Y L A A A G I G K I I I D D D A V E L S N I L Q R Q Q V L Y K V N H			
UniRef90_L1MM05	L G S P A M L Y L A G A G V G R I I T I V D D D V V S S L S N I L H R Q Q V V H T T A H			
UniRef90_W7KK99	L G S T L S D M L V R L G I K E I T I V D V D A D V V E L S S N I L H R T R M F T E E D			
UniRef90_UPI0003B68CDF	L G S P A L L Y L A G A G V G H I V T I D D E V E L S S L S N I L H R Q Q V I H S T A A			
UniRef90_R9CPE3	L G S P V I Q Y L A A A G V G T I G L I A D F D E V E L H N L N R Q Q I I H T E S S			
UniRef90_B5Y779	L G T F I A Q Y L V R A G V G R I R L I D F D V V E L S N I L Q R Q Q I I Y D E G D			
UniRef90_UPI0003B5F5F3	L G S A V V P A L A G S G I G T I G V A D F D T V E L S N I L P R Q Q L S H G V A D D			
UniRef90_UPI000463B6AC	L G S P A L L Y L A A A G V G T I G I V D D D A V D T S S N I L Q R Q Q V I H G G S D			
UniRef90_J7QTB8	L G A P L L Q Y L A A A G V G A G L V G V D D A V S L S N I L Q R Q Q V I H A T Q D			
UniRef90_UPI0004772F58	L G A P A L M Y L A A A G V G H I T V I D D D E V S S L S N I L Q R Q Q I I H T T A A			
UniRef90_U3GZ85	L G S P C L L A L T A A G I G A I I D C E T D T V D V S N I L Q R Q Q T L Y R V H D			
UniRef90_F0P9C1	L G S G I A E Q L V R S G V G K L I T V D K D V H L S N I L H R Q S G Y V E A D			
UniRef90_W4VKJ0	L G S S S S E M L V R A G V G K I I T M D R D Y V E E S S N I L Q R Q Q Q L F S E E D			
UniRef90_F8ADU7	L G T V V A E G L V R L G I G G I L I L V D D D R V S P T D L N R Q Q V L Y T A K D			
UniRef90_W4E830	L G G T A A A L Y L A A A G V G R I I L I A H E G V I V A P D L N R Q Q I L M D S G H			
UniRef90_Q85G13	L G C A V S L A L C S I G G Y G Y L G L V D G D E V E I S N I L P R Q Q L L H Q E R F			
UniRef90_UPI00037E6BA2	I G S P A V A Y L L A G A G V G G N L T L V D G D Q P E E T N I L H R Q V V F F Q T G A			
UniRef90_I3TDU5	L G S A V S I Y L A A M G V G N L Y V L D R E V V E V S N I L Q R Q Q V L Y S I D D			
UniRef90_F4H5C3	L G A P V L Q Y L A A A G V G T I G I V V D D D V V D V T N I L Q R Q Q V I H G T A D			
UniRef90_X1DC93	L G S S F A M Y L V A A G I G E L T I I D N D T V D L S N I L Q R Q Q I I Y D S S S			
UniRef90_G0W729	L G S P A L L Y L A G A G V G T I G I V D N D I V D T S N I L Q R Q Q I I H D S H R			
UniRef90_UPI00037F821B	L G S V I A Y L L T S N G I G K I K L I D Q D I V E L S N I I N R Q Q F L Y D I N D			
UniRef90_Q9RS58	L G G P V I R Q L A A G A G V G A L T V A D G D T V S V T N I L H R Q Q Q L Y R T A D			
UniRef90_J7IW00	L G G Y I A E E L A R I G V R R I V L V I D G D R L E V V S N I L N R Q I I M A T E E T			
UniRef90_S3UZZ7	L G S P A A L H L A T A G G V G R I G R I L M D D F D R I E V V S N I L H R Q T A F T L F D			
UniRef90_W4PFZ4	L G S P V S I S L Y L A G A G V G T I G I L A D D D T V G I G S N I L Q R Q I I Y T E D D			
UniRef90_F4PUL5	I G C E L L K N V L S G F K D I H I D D T I D L S N I L N R Q F L F R K H H			
UniRef90_X1CWS4				
UniRef90_W8P3T9	L G S P V A Y Y L A S A G I G T L L L I D E Q K P E E L S N I L N R Q I I L H W E E D			
UniRef90_R6D8T9	V G G Y A V E A L A R S G V G A L D L I D D D R V C I L T N I L N R Q I I A T R S T			
UniRef90_A0A031FLR7	I G S P A I L A L A A A G V G A I T V I D D D T V E L H N L Q R Q I I A H R I I E D			
UniRef90_E6XOB2	L G S T L A L A L G C S G I G E I H L V D F D D E V S L H N L H R Q I V F T L E D			
UniRef90_UPI000305D469	L G S P A G L Y L A G A G V G T I G I V D D R V E R S N I L H R Q I V H R A D D			
UniRef90_K5X840	V A T E A I K N M V L A G A G I G K I V I D A E N V A E E D L H R Q I I G C G F F F R E E D			
UniRef90_R6PCZ2	V G G Y V C E G L V R S G I G A F D L I D D D K V C I L T N I L N R Q I I A T R K T			
UniRef90_C0SGB1	L G A E V A K N L V L V G I G S L T I I D N A T V R E E D V G A Q F F F L I S E E H			
UniRef90_E2N4Y7	L G C P V L E L L C S A G I G T L G L V D F D K V E L H N L H R Q F L F A E K D			
UniRef90_B6YW19	L G S W E V Y F L H K L V G R I I V V D R D F V D E S D L P R T I I Y T S D D			
UniRef90_R1BC70	L G S P A L V Y L A A A G V G T I G I V G V V D N D V V D E S N I L Q R Q I I H A T D A			

	90	100	110	120
UniRef90_M1IMH9	I G K P K A T V C A E K I   R K I   N S G   I   K   V   E   V   N   D   I   D   S   N   N   A   E   E   M   L   K   D			
UniRef90_D2RHM0	V G K N K A L S A M E F   V   E   R   L   N   P   D   V   E   V   E   A   Y   P   F   N   L   N   E   S   N   I   A   I   A   K   H			
UniRef90_L7WV16	D M L P K V I A A K N H   L   E   A   I   R   H   D   I   D   I   N   A   Y   V   S   H   V   D   A   Y   F   L   D   I   Y   T   N			
UniRef90_UPI00026C6C3D	L G R S K A V A A A E H   L   H   A   Q   S   P   Q   V   S   V   R   A   V   V   E   T   L   T   P   A   N   A   L   E   E   L   G   G			
UniRef90_UPI000376EB72	A G K M K V E V   A   F   E   R   L   K   A   L   N   P   E   V   E   I   D   P   K   P   I   A   T   T   V   Y   N   V   E   E   T   I   K   D			
UniRef90_W4TES0	V G S K K V E S A G H   F   V   R   N   L   N   H   Q   I   K   F   V   A   D   Q   K   I   N   E   K   N   V   R   E   I   V   S   Q			
UniRef90_M2YGA7	V G R A K T A S A A A R   I   R   E   L   N   P   D   V   Q   V   V   E   H   R   T   R   L   E   A   D   N   A   A   R   L   V   N   G			
UniRef90_A0Z9B5	V G R F K A E V   L   A   E   R   L   G   R   M   N   S   A   V   R   V   T   H   Y   P   I   S   F   D   E   L   S   G   A   S   L   V   T   A			
UniRef90_UPI0002F415B2	L K Q T K V   S   A   A   K   A   S   L   A   Q   L   N   P   H   I   N   V   T   A   L   T   A   R   L   L   T   H   N   Q   L   A   E   M   L   A   A			
UniRef90_UPI0003699E4D	L G L   A   K   A   D   A   A   A   T   N   M   R   R   L   N   P   D   C   Q   M   M   P   I   I   E   P   L   T   P   D   N   I   E   T   H   A   S   D			
UniRef90_B11124	L G K   A   K   A   D   V   A   A   R   R   L   R   L   N   P   Q   V   E   V   A   L   H   R   T   R   L   E   A   D   N   A   A   R   L   V   N   G			
UniRef90_UPI0002FDD148	C Q M L P   K   V   T   A   A   E   K   R   L   K   D   I   R   E   D   V   R   L   Y   T   Y   L   D   N   L   D   A   Q   L   I   E   K   L   A   S   G			
UniRef90_G0CSL5	C G L   P   K   V   E   V   V   A   A   R   R   A   Q   A   L   Q   P   G   I   V   I   E   A   R   N   E   T   L   T   A   R   N   A   C   E   L   V   A   G			
UniRef90_A4BXK9	I G K   P   K   A   E   V   L   Y   T   F   I   T   K   R   A   P   F   T   D   I   R   F   T   S   E   A   I   T   K   D   N   V   L   E   C   I   D   A   G			
UniRef90_UPI0003152E0A	I G A   L   K   A   E   A   A   A   A   R   L   S   R   L   N   P   G   C   R   L   E   I   V   A   E   R   L   T   A   A   N   A   S   E   R   L   H   G   G			
UniRef90_A2SPV8	I G A   C   K   V   E   A   A   K   T   I   H   A   L   N   R   D   V   E   V   D   P   V   C   R   H   I   D   E   T   S   V   N   G   L   V   S   G			
UniRef90_UPI00040BAAB1	A G R A K   V   E   S   A   A   D   A   V   K   R   L   P   N   V   R   V   T   P   L   K   R   L   T   E   A   N   A   R   E   L   I   R   A			
UniRef90_UPI0004747D57	M M V   P   K   V   E   A   L   K   K   H   L   D   I   N   S   N   I   K   I   N   A   L   Y   Q   E   I   T   C   T   N   I   E   H   I   L   R   N			
UniRef90_Q0G7U1	V G R   P   K   L   D   S   A   A   D   A   V   R   R   V   V   P   H   A   F   E   A   H   P   I   R   L   T   A   E   N   G   A   D   L   V   A   S   E			
UniRef90_F7J699	I G L   S   K   A   O   I   A   E   K   K   I   L   E   I   N   P   K   C   N   V   Q   L   F   N   T   R   L   S   S   S   N   A   I   E   I   I   R   E   E			
UniRef90_B6JCQ8	V G K   A   K   T   D   S   A   A   E   S   V   V   A   A   L   N   P   H   V   F   I   T   H   Q   T   R   L   I   Q   A   T   N   A   L   E   I   V   G   G   R			
UniRef90_M7YE82	I G L   N   K   A   E   V   V   A   H   A   I   K   T   K   Y   S   D   I   K   V   E   A   I   P   E   F   L   T   T   Q   N   V   W   M   I   L   S   R			
UniRef90_F9L7R0	A Y   H   L   V   I   A   K   V   V   K   N   K   V   S   Q   I   N   S   E   V   T   L   T   A   Y   D   V   E   V   T   T   S   S   N   I   E   D   V   I   N			
UniRef90_B0TY64	L G E   S   K   A   V   I   A   K   N   R   L   Q   K   L   N   P   Y   I   S   I   T   A   I   T   Q   R   L   T   T   N   H   N   Y   T   K   L   D   M   K			
UniRef90_M4U715	I G K   H   K   V   L   A   M   K   A   R   L   E   A   L   N   P   H   I   R   I   R   S   I   N   K   A   M   H   E   E   Q   L   L   I   E   L   T   M			
UniRef90_U3TTI5	V G R   S   K   A   V   A   A   Q   Q   A   L   Q   Q   R   N   P   E   V   Q   I   E   A   V   P   Q   A   L   S   A   S   N   I   A   Q   A   L   A   G			
UniRef90_E0DI72	V G R   P   K   V   E   S   A   R   Q   V   L   A   D   L   N   P   E   V   V   R   I   R   T   H   N   G   R   L   T   W   E   E   S   E   R   L   F   A   G   G			
UniRef90_F9DS39	E Q   L   P   K   P   A   A   A   A   E   R   R   R   L   R   Q   I   N   S   D   V   K   I   R   G   V   V   A   D   V   T   P   E   N   V   L   E   L   F   E   G			
UniRef90_I4WZP4	Q R   T   P   K   A   I   A   A   K   K   H   T   L   I   N   S   K   V   E   V   R   C   H   V   M   D   V   S   V   E   E   M   E   Q   L   V   V   G			
UniRef90_F2G2T1	L G E   L   K   A   K   S   L   Y   N   E   L   R   K   V   V   N   P   K   L   N   I   R   Y   K   S   L   Y   V   D   S   N   N   L   P   T   L   I   S   S   G			
UniRef90_I0XTA4	I G R   S   K   S   L   A   A   S   E   N   L   K   S   L   N   P   Y   I   V   N   I   E   E   G   I   Q   A   R   L   S   K   E   N   A   K   E   L   L   R   G			
UniRef90_C5KCL6	V G R   R   K   A   A   S   A   R   V   A   C   R   P   R   V   M   G   V   G   V   S   E   V   E   V   A   S   G   M   L   S   K   A   N   V   R   D   L   V   S   K			
UniRef90_UPI00040BDD8E	D M T   L   K   V   N   A   A   K   E   K   L   C   Q   I   R   N   R   N   S   V   E   I   V   P   I   N   A   E   I   N   S   S   N   I   S   A   I   L   R   K			
UniRef90_Q7UJ43	A E   Q   A   L   A   K   A   E   A   A   H   L   R   R   I   N   S   S   V   V   I   E   V   V   V   A   D   I   H   P   G   N   I   A   E   N   L   L   D			
UniRef90_A0A011TQC6	I G R   K   K   V   D   S   A   A   D   A   L   R   R   E   L   N   P   H   V   E   V   N   T   V   A   K   R   L   D   D   A   Q   L   Q   A   L   I   E   Q			
UniRef90_W5HU17	I G R   S   K   V   S   K   A   S   A   D   T   C   Q   R   A   I   N   S   S   I   K   V   E   H   H   H   H   T   L   K   P   N   N   A   L   E   V   V   R   K			
UniRef90_K1FMB1	V G D   L   K   A   I   C   A   S   L   R   I   S   A   I   N   R   E   I   V   E   V   N   A   C   P   G   R   L   L   S   K   N   N   A   R   E   L   I   R   Q			
UniRef90_Q0U1Y0	V G M   S   K   V   E   S   A   M   V   A   L   S   S   L   N   P   N   V   K   I   V   P   H   V   A   R   L   T   P   E   T   A   I   S   T   F   E   K			
UniRef90_UPI0003B5F3A8	I G R   P   K   A   E   S   A   A   A   A   V   T   R   L   L   N   P   H   V   T   T   I   A   H   V   A   R   I   G   V   E   N   V   D   A   L   L   S   D			
UniRef90_Q5CTY0	N H   M   S   K   S   I   S   A   K   Q   S   C   N   S   L   N   P   N   T   R   I   I   T   Y   Q   E   A   S   I   D   L   V   K   E   I   F   P   L			
UniRef90_V61970	I G S   S   K   S   S   E   S   A   K   Q   H   R   I   E   E   N   P   Y   I   E   I   E   S   V   P   V   R   F   S   A   D   N   A   E   N   L   L   K   D			
UniRef90_UPI000372CC4B	I G S   S   G   R   H   V   Q   A   A   E   T   L   R   R   F   N   R   D   L   K   I   E   I   E   S   V   P   V   R   F   S   A   D   N   A   E   N   L   L   K   D			
UniRef90_E8RA53	I G R   S   K   V   T   A   A   Y   E   R   L   R   R   I   N   P   N   V   L   L   E   P   V   Q   A   S   I   T   R   E   L   L   D   E   V   V   M   Q   R   K			
UniRef90_UPI0003625873	I G R   T   K   I   D   S   A   T   D   A   V   L   A   R   L   N   P   Y   V   R   I   E   P   H   H   M   R   I   D   R   D   N   A   V   D   L   I   R   K			
UniRef90_B2GCL7	V K   Q   H   P   V   R   V   M   M   A   K   N   H   L   Q   A   I   N   H   H   V   E   V   T   P   L   P   A   P   L   S   I   D   L   L   N   E   L   L   T			
UniRef90_C6VPM4	V R   D   Q   K   V   D   A   A   K   N   H   L   Q   A   I   N   H   H   V   E   V   T   A   Y   P   A   A   L   I   D   G   D   L   L   Q   T   L   L   T			
UniRef90_W0JEK8	I G K   Q   K   N   L   T   A   K   E   K   L   D   S   I   G   F   N   C   Q   V   E   I   F   G   K   I   D   E   D   F   I   D   E   D   F   I   P   D			
UniRef90_S2FHB4	V G D   L   K   V   L   A   A   K   R   R   I   N   E   L   N   P   D   I   M   V   H   T   F   D   T   L   I   N   S   E   N   V   L   P   L   L   I   T   E   Q			
UniRef90_C4L0I0	A R   T   P   K   A   V   A   A   L   E   R   L   R   T   I   R   T   I   L   D   A   Q   I   A   D   V   S   W   D   W   L   R   P   L   C   P   P			
UniRef90_F4AS52	I G K   S   K   A   R   V   V   A   K   R   L   N   D   N   P   F   I   T   V   L   G   V   N   E   P   L   V   A   A   N   M   H   R   L   L   N   K   Q			
UniRef90_A2BYV2	V G D   L   K   I   D   S   A   Q   E   R   I   R   R   L   N   P   N   I   E   V   I   T   F   A   E   R   I   N   S   N   N   I   L   D   I   I   N   Q			
UniRef90_UPI00045E8861	I D   R   L   K   T   D   S   A   R   D   A   V   A   A   L   N   P   H   V   E   L   V   T   H   P   V   R   I   D   A   G   N   A   L   D   F   I   A   Q			
UniRef90_B3L6W7	T G   M   N   K   T   L   S   A   K   L   T   V   K   N   M   E   E   N   A   N   I   K   C   Y   P   F   Y   L   D   K   K   N   G   L   Q   I   V   K   D			
UniRef90_Q3IFN4	L   G   Q   K   K   V   V   A   A   G   K   V   L   A   S   L   N   Q   I   T   L   T   H   A   E   K   L   T   Q   D   N   S   A   A   L   L   N   N			
UniRef90_L1MM05	V   G   E   Q   K   V   R   S   A   A   E   A   L   H   S   L   N   P   S   I   I   V   H   D   V   A   E   R   I   L   N   W   D   N   A   L   R   L   M   A   D			
UniRef90_W7KK99	V   M   R   P   K   A   L   A   C   K   D   Y   L   S   K   V   N   R   E   V   K   V   N   A   V   V   D   V   V   D   A   E   N   V   E   E   L   V   R   G			
UniRef90_UPI0003B68CDF	V   G   T   P   K   V   D   S   A   R   D   A   V   A   A   L   N   P   H   V   E   L   V   T   H   P   V   R   I   D   A   D   N   A   L   D   V   L   R   G			
UniRef90_R9CPE3	V   G   K   L   K   T   E   S   A   A   E   F   V   V   N   A   I   N   S   S   V   Q   I   T   I   D   E   K   L   D   P   E   N   I   A   S   L   I   Q   E			
UniRef90_B5Y779	V   G   K   S   K   A   Q   C   A   Y   T   H   L   R   R   I   N   S   E   V   I   L   E   P   V   E   D   K   L   T   T   G   Q   N   A   E   S   L   L   T   G   Q   E			
UniRef90_UPI0003B5F5F3	L   G   R   Q   K   V   A   S   L   A   D   T   V   V   A   A   I   D   P   E   C   R   V   V   Q   H   T   E   R   I   I   T   G   V   N   L   P   A   L   L   E   Q			
UniRef90_UPI000463B6AC	V   G   R   R   K   V   D   S   A   R   E   T   V   V   A   D   V   N   P   H   V   V   V   E   H   A   V   H   R   R   L   D   A   D   N   A   L   D   V   L   R   G			
UniRef90_J7QTB8	L   G   R   P   K   V   E   S   A   R   D   A   V   A   A   R   L   N   P   L   V   V   F   P   H   A   L   R   L   N   E   A   N   A   R   A   L   I   A   R			
UniRef90_UPI0004772F58	I   G   R   R   K   T   E   S   A   G   E   F   I   A   A   L   N   P   H   V   A   F   E   G   I   N   A   R   L   T   A   G   N   A   L   D   F   I   A   Q			
UniRef90_U3GZ85	I   G   R   P   K   A   E   L   A   V   E   R   R   L   S   G   L   A   P   E   C   T   L   R   S   V   G   R   F   S   A   D   R   A   A   D   L   C   A   G			
UniRef90_F0P9C1	A   M   K   P   K   V   F   A   L   K   E   R   L   A   M   M   H   V   E   T   I   E   P   L   Y   E   E   Y   P   A   A   W   P   W   V   E   A			
UniRef90_W4VKJ0	N   Q   T   P   K   V   I   A   A   K   N   R   L   Q   A   I   N   S   H   T   I   I   E   A   K   V   I   D   V   G   V   E   E   L   D   S   I   A   E   E			
UniRef90_F8ADU7	I   G   E   F   K   A   K   M   A   R   E   R   R   L   L   A   I   R   D   D   V   W   I   E   A   W   V   Q   R   I   E   K   K   F   D   I   P   N   K			
UniRef90_W4E830	I   G   Q   E   R   M   S   T   A   V   A   R   L   K   Q   L   N   P   H   V   E   I   E   G   Y   N   S   R   I   E   Y   P   A   A   W   P   W   V   E   A			
UniRef90_Q85G13	I   E   T   S   K   T   L   S   V   L   Y   Q   H   H   H   H   H   T   K   M   E   L   Y   N   K   R   I   L   E   N   Q   M   A   L   E   I   S   Y   E			
UniRef90_UPI00037E6BA2	T   G   N   K   A   A   L   L   A   K   H   C   Q   I   R   N   P   G   T   R   V   R   A   H   E   T   Y   L   E   V   A   N   N   A   R   Q   L   I   E   D			
UniRef90_I3TDU5	L   G   K   P   K   P   L   A   A   A   E   K   L   K   K   L   N   P   N   T   N   V   Q   P   I   Y   A   E   V   S   E   S   L   L   S   S   I   L   D			
UniRef90_F4H5C3	V   G   R   L   K   V   D   S   A   R   D   A   I   L   A   E   L   D   P   D   V   R   V   V   V   H   A   L   R   L   D   E   G   N   V   D   D   V   L   R   R			
UniRef90_X1DC93	L   N   R   V   K   V   V   E   V   A   K   E   R   L   N   N   I   L   P   D   S   K   I   I   I   K   K   M   C   Q   V   I   T   D   K   S   I   D   D   L   I   K   N			
UniRef90_G0W729	V   N   M   L   K   C   E   S   A   K   L   S   I   Q   N   L   N   P   N   V   N   V   V   T   Y   P   T   R   L   I   T   H   S   N   A   F   E   I   F   E   G			
UniRef90_UPI00037F821B	L   R   Y   P   K   V   E   V   A   Y   K   K   L   K   D   V   N   P   E   V   V   K   I   E   P   I   A   E   N   L   N   S   D   N   A   E   E   I   L   G   D			
UniRef90_Q9RS58	V   G   R   S   K   A   E   T   A   C   A   V   A   Q   G   V   N   P   F   V   Q   I   Q   A   A   P   A   L   T   P   E   T   A   P   T   L   I   A   A			
UniRef90_J7IW00	I   G   Q   W   K   V   E   A   A   R   D   R   L   Q   R   V   V   N   S   E   V   K   V   E   I   I   K   E   W   F   A   E   E   R   G   R   D   F   F   S   E			
UniRef90_S3UZZ7	I   G   R   L   K   T   E   V   T   S   E   F   L   K   A   R   V   P   D   V   L   T   E   L   F   S   N   S   F   S   R   T   I   A   P   E   F   L   N   D			
UniRef90_W4PFZ4	I   L   E   K   P   K   A   I   C   A   A   E   R   L   S   R   L   N   S   E   S   V   F   R   P   H   V   R   L   T   Q   E   N   A   E   E   M   I   R   P			
UniRef90_F4PUL5	I   G   M   S   K   A   K   I   A   R   E   A   V   L   K   Y   N   P   D   V   N   I   E   A   H   E   G   D   I   N   Q   Q   Y   G   H   Q   Y   F   Q   R			
UniRef90_X1CWS4	N   K   N   P   K   P   L   S   A   K   W   K   L   N   S   E   I   K   V   R   T   Y   S   K   R   I   C   K   K   N   I   E   D   D   L   L   N   E			
UniRef90_W8P3T9	U   N   P   K   P   L   S   A   K   W   K   L   N   S   E   I   K   V   R   T   Y   S   K   R   I   C   K   K   N   I   E   D   D   L   L   N   E			
UniRef90_R6D8T9	I   G   K   H   K   V   D   V   A   E   A   R   V   H   D   I   C   P   D   I   K   V   T   A   H   K   C   F   Y   M   P   D   T   A   D   R   F   F   T   Q			
UniRef90_A0A031FLR7	I   G   V   H   K   T   E   S   T   V   R   A   V   A   A   L   S   P   V   T   V   V   T   P   V   T   A   R   I   L   D   D   D   N   A   Q   E   F   F   A   G			
UniRef90_E6XOB2	Q   G   G   N   K   A   E   V   S   A   E   L   L   R   K   K   N   P   F   V   K   V   Q   A   H   P   C   Y   M   P   D   T   A   D   R   F   F   T   Q			
UniRef90_UPI000305D469	E   G   R   L   K   V   D   S   A   D   T   L   R   A   L   N   P   E   V   T   V   R   T   P   L   R   L   T   R   D   T   V   V   D   V   V   R   D			
UniRef90_K5X840	V   G   Q   K   R   L   D   V   A   R   P   R   I   E   G   L   N   P   L   V   N   V   E   T   I   T   D   M   L   E   G   V   A   F   E   N   L   I   Q   R			
UniRef90_R6PCZ2	V   G   K   Y   K   A   D   V   M   K   E   R   I   L   E   I   N   P   D   C   Q   V   E   V   H   K   C   F   L   P   E   N   A   D   E   F   F   E   D			
UniRef90_C0SGB1	I   S   Q   N   R   A   E   A   A   A   P   Q   O   I   R   Q   M   N   P   R   V   Q   V   T   V   E   A   V   N   I   R   S   K   P   P   P   A   F   F   A   S   G			
UniRef90_E2N4Y7	V   Q   Q   L   K   T   A   V   A   V   E   R   L   Q   A   R   N   S   D   T   I   F   R   T   Y   P   Y   S   L   S   T   Q   N   V   F   A   I   I   D   G			
UniRef90_B6YW19	V   G   K   P   K   V   E   V   L   K   E   R   F   E   N   V   I   G   Y   F   E   D   L   S   P   T   V   H   V   P   S   T   V   H   L   L   D   E			
UniRef90_R1BC70	V   G   S   P   K   V   D   S   A   A   Q   R   V   G   D   L   N   P   L   V   K   L   V   K   H   E   E   L   L   T   A   E   N   A   L   R   I   L   G   E			

	130	140	150	160	
UniRef90_M1IMH9	S D Y I   F D A [D N L   Y Y R F   L   L   N D V A   V K L   R   I   P   L   V   Y G G   V   M G E   Y S S   V				
UniRef90_D2RHM0	Y D V V V   A C P   D N F E T R   L   L   N D F C   V R N D   I   P   M   V   H G A   I   Y G F   E G E   V				
UniRef90_L7WV16	I   D L I   I   D A T D N F E T R   Q   L   I N D   A Y Q K   C   P   W   I   Y G G   V   V Q S   T Y A   Q				
UniRef90_UPI00026C6C3D	H   D L V   L   D G T   D N F P   T R Y   L   V   A S D   A   C   E   I   L   D   P   L   V   W G S   L   L   A   F   S   G   Q   V				
UniRef90_UPI000376EB72	F   D L V   I   D S T   D S   I   K   A R Y   L   V   N R A   C   L   K   L   G   P   Y   I   Y G A   A   I   E   N   Q   G   S   A				
UniRef90_W4TES0	Y   D L V   V   D G S   D N F S T   R Y   L   L   N D T   C   V Q L   G   K   T   L   V   Y   G   S   I   L   G   F   T   G   Q   V				
UniRef90_M2YGA7	C   D L V   L   D G S   D N F A T   R Y   L   V   S   D   A   C   E   I   T   G   I   P   H   V   W   A   S   I   L   R   F   D   G   Q   A				
UniRef90_A0Z9B5	V   D A   V   D G T   D N   H   A   T   R   L   L   I   D   R   F   T   A   E   K   A   L   P   W   F   M   G   A   A   V   Q   M   A   G   Q   N				
UniRef90_UPI0002F415B2	V   D L   V   I   D   C   S   D   N   M   P   T   R   Q   A   I   N   K   I   C   V   L   Q   K   L   P   L   I   V   G   A   G   I   R   M   E   G   Q   L				
UniRef90_UPI0003699E4D	V   D L   V   L   D   C   A   D   S   F   A   V   S   Y   S   L   S   D   Y   C   L   N   R   L   S   L   I   H   A   S   V   V   G   T   A   G   Y   V				
UniRef90_B1124	Y   D L   V   L   D   C   T   D   N   L   E   T   R   R   L   L   N   Q   T   C   K   L   S   R   P   W   V   H   G   A   V   S   E   Y   Y   G   H   V				
UniRef90_UPI0002FDD148	S   T   L   I   M   D   A   T   D   N   F   E   T   R   L   L   I   D   N   A   A   V   K   H   R   P   W   V   Y   G   A   C   V   G   S   S   G   V   I				
UniRef90_G0CSL5	A   D   I   V   L   D   G   S   D   T   F   S   S   K   Y   L   V   A   D   A   A   E   I   V   G   T   P   L   V   W   G   T   V   L   G   F   H   G   D   V				
UniRef90_A4BXK9	V   D   L   V   I   D   G   T   D   S   L   P   T   K   Y   L   L   N   D   A   C   V   L   K   Q   K   P   L   V   Y   G   S   L   Y   K   F   D   G   Y   V				
UniRef90_UPI0003152E0A	S   E   A   V   D   C   T   D   N   Y   A   A   R   Y   V   I   I   D   D   Y   C   A   S   A   G   V   P   M   V   Y   G   T   A   E   Q   A   G   G   Q   V				
UniRef90_A2SPV8	M   D   L   I   L   D   G   M   D   N   F   A   A   R   Y   V   I   I   L   N   R   A   G   V   P   M   V   Y   G   T   A   E   Q   A   G   G   Q   V				
UniRef90_UPI00040BAAB1	F   D   V   V   A   D   G   S   D   N   F   A   T   R   Y   L   V   S   D   A   C   F   H   E   K   R   P   L   V   T   A   A   V   G   A   F   D   G   S   L				
UniRef90_UPI0004747D57	S   N   I   V   M   D   G   M   D   H   F   K   I   R   Y   L   I   N   E   A   C   H   K   F   S   I   P   W   V   Y   G   A   A   I   G   S   Q   G   T   I				
UniRef90_Q0G7U1	C   D   L   A   I   D   G   S   D   N   F   A   T   R   Y   A   M   A   D   L   C   E   D   A   E   I   P   L   V   T   A   A   V   Q   R   F   S   G   S   L				
UniRef90_J7F699	Y   D   I   I   I   D   G   T   D   N   F   Q   T   R   Y   V   I   I   S   D   S   C   L   E   L   N   K   I   H   Y   G   A   I   F   Q   F   E   G   Q   V				
UniRef90_B6JCQ8	Y   D   L   V   V   D   G   S   D   N   F   T   T   T   R   Y   L   V   S   D   A   C   F   L   A   R   K   T   L   V   A   G   A   L   G   P   F   D   A   S   L				
UniRef90_M7YE82	Y   N   L   V   V   D   G   S   D   N   F   P   T   R   Y   L   V   N   D   A   C   F   H   K   Y   E   I   P   P   W   V   Y   G   A   A   V   G   F   D   G   S   L				
UniRef90_F9L7R0	P   D   I   I   I   D   G   M   D   N   F   K   V   R   F   I   L   I   N   E   V   C   H   K   Y   E   I   P   P   W   V   Y   G   A   A   V   G   S   K   G   T   V				
UniRef90_B0TY64	Y   H   I   I   I   D   T   S   D   N   Y   L   T   K   L   S   N   K   I   S   L   E   Y   S   I   P   P   L   V   T   A   A   V   Q   R   F   S   G   S   L				
UniRef90_M4U715	I   D   L   V   L   D   C   T   D   N   M   A   R   Q   I   I   N   R   A   C   V   Q   T   K   T   P   L   V   L   V   G   A   A   I   R   M   E   G   Q   L				
UniRef90_U3TTI5	C   D   L   V   I   D   A   A   D   N   F   A   V   T   Y   Q   L   S   D   A   C   F   Q   A   G   I   P   L   I   S   A   S   V   L   G   R   Q   G   Y   A				
UniRef90_E0DI72	V   D   V   V   V   D   G   T   D   T   T   D   I   R   Y   V   I   S   A   R   C   A   R   L   G   I   P   P   H   V   W   A   S   I   L   G   Y   E   A   Q   L				
UniRef90_F9DS39	H   D   M   V   M   D   G   M   D   H   F   K   I   R   Y   L   I   N   D   A   C   Q   L   N   T   P   F   F   M   G   A   C   V   G   S   Y   G   L   T				
UniRef90_I4WZP4	V   D   L   I   L   D   A   S   N   F   D   I   R   M   I   I   N   D   I   S   Q   K   H   R   I   P   P   W   V   Y   G   A   A   V   G   S   K   G   S   V				
UniRef90_F2G2T1	A   D   C   V   L   D   C   T   D   K   I   D   T   R   K   L   I   N   A   A   T   Y   R   A   S   T   P   L   F   I   A   A   S   G   L   S   W   Q   L				
UniRef90_I0XTA4	S   D   L   V   L   E   G   S   D   N   F   D   T   K   F   L   T   T   N   D   I   C   I   G   E   K   I   P   P   F   V   T   A   G   V   L   R   F   E   G   M   V				
UniRef90_C5KCL6	H   D   I   I   L   D   C   T   D   C   P   A   T   R   W   L   L   S   S   A   C   A   T   A   R   R   P   F   V   S   G   A   A   M   E   W   S   G   Q   V				
UniRef90_UPI00040BDD8E	Y   D   I   V   I   D   S   M   D   H   F   E   I   R   F   L   I   I   N   E   A   C   H   K   L   D   I   P   P   W   V   Y   G   A   A   V   G   S   K   G   S   V				
UniRef90_Q7UJ43	V   D   L   V   I   D   A   A   D   N   F   T   L   R   L   L   I   N   D   W   S   L   S   T   S   T   P   W   V   H   G   G   C   V   G   V   A   N   G   Q   V				
UniRef90_A0A011TQC6	H   T   V   V   V   D   A   S   D   N   V   D   T   R   N   Q   L   N   R   L   C   F   A   T   K   T   P   L   I   S   G   A   A   I   R   M   E   G   Q   V				
UniRef90_W5HU17	Y   D   I   V   V   V   D   A   T   D   N   L   P   T   R   Y   M   I   S   D   C   C   V   L   L   N   K   P   I   S   G   A   A   L   G   L   E   G   Q   L				
UniRef90_K1FMB1	Y   D   I   V   V   V   D   G   C   D   P   T   R   Y   M   I   I   N   D   V   C   V   E   L   G   K   P   Y   V   Y   G   A   I   C   G   F   E   G   Q   V				
UniRef90_Q0U1Y0	Y   D   L   V   L   D   C   T   D   T   P   A   S   R   Y   L   I   S   D   T   C   V   L   L   R   K   R   L   I   S   A   S   A   L   R   I   D   G   Q   L				
UniRef90_UPI0003B5F3A8	P   S   V   V   I   D   G   C   C   D   N   F   D   T   R   L   L   V   A   D   A   A   L   A   R   R   I   P   P   L   V   S   S   A   A   V   G   R   F   E   G   Q   V				
UniRef90_Q5CTY0	Y   D   V   V   I   V   A   D   T   D   N   C   R   S   R   Y   L   I   I   N   D   A   A   V   Y   Y   K   K   P   V   S   S   G   A   A   L   K   W   Q   G   H   V				
UniRef90_V61970	S   D   L   V   L   E   G   S   D   N   F   E   T   K   F   L   V   N   D   V   C   S   L   K   I   P   P   F   L   I   A   G   I   L   R   F   D   G   M   V				
UniRef90_UPI000372CC4B	A   D   I   V   F   S   C   A   P   L   F   E   E   R   L   L   M   N   R   E   A   M   S   Q   G   K   F   F   V   D   G   A   M   C   S   M   E   G   H   V				
UniRef90_E8RA53	V   D   I   V   V   D   A   L   D   N   W   E   T   R   F   T   L   L   D   E   A   A   W   R   H   G   K   P   L   V   H   A   G   V   Y   G   E   H   Y   Q   G   L				
UniRef90_UPI0003625873	Y   D   V   V   A   D   G   S   D   N   F   D   T   R   Y   A   V   S   D   A   C   F   H   A   R   R   P   L   V   T   A   A   L   G   Q   F   D   G   T   L				
UniRef90_B2GCL7	F   D   L   V   I   D   C   L   D   N   Y   G   T   R   I   I   N   R   A   L   V   E   R   F   D   Y   I   F   A   S   C   C   A   G   T   F   G   T   V				
UniRef90_C6VPMP4	F   D   L   V   I   V   D   C   L   D   N   K   D   S   K   N   L   L   S   R   L   A   F   K   N   N   I   Y   F   V   H   A   G   V   S   G   Y   F   G   Q   I				
UniRef90_W0JEK8	V   D   I   V   V   D   C   O   F   D   N   K   D   S   K   N   L   L   S   R   L   A   F   K   N   N   I   Y   F   V   H   A   G   V   S   G   Y   F   G   Q   I				
UniRef90_S2FHB4	Y   D   I   V   V   D   A   T   D   N   F   V   A   K   Y   I   I   S   D   A   C   I   C   I   C   E   K   P   M   V   Y   A   S   I   S   Q   F   E   G   Q   V				
UniRef90_C4L010	V   D   L   V   L   D   A   T   D   N   V   E   T   R   F   T   L   L   N   D   F   A   L   E   R   G   I   P   P   F   L   F   A   S   C   C   V   G   A   Y   G   M   N				
UniRef90_F4AS52	A   D   I   V   L   D   C   T   D   N   F   A   A   R   M   I   I   N   D   H   C   L   V   Q   A   I   P   P   W   V   Y   A   S   V   L   G   T   N   G   Q   M				
UniRef90_A2BYV2	F   D   I   V   C   D   O   S   D   N   F   G   T   R   Y   L   I   I   N   D   A   C   L   I   L   D   K   P   L   V   F   G   S   V   Q   G   F   E   G   Q   I				
UniRef90_UPI00045E8861	A   D   L   V   V   D   G   S   D   N   F   S   T   R   Y   L   V   S   D   A   C   V   L   A   K   K   P   L   V   T   A   A   L   G   A   F   D   A   T   I				
UniRef90_B3L6W7	Y   D   I   V   V   D   C   O   F   D   N   F   S   T   R   Y   L   V   S   D   A   C   V   L   Y   K   K   L   I   F   G   S   A   L   G   L   Y   G   Q   L				
UniRef90_Q3IFN4	A   D   I   V   L   D   C   T   D   N   I   A   T   R   F   L   I   I   N   D   L   C   V   L   Y   K   K   L   I   F   G   S   A   L   G   L   Y   G   Q   L				
UniRef90_L1MM05	V   D   V   V   I   D   G   S   D   N   F   A   T   R   H   I   I   V   S   A   A   C   A   R   A   G   I   P   P   H   V   W   A   S   V   L   G   F   D   A   Q   L				
UniRef90_W7KK99	K   D   V   V   F   D   A   L   D   N   V   N   Y   R   L   I   I   L   N   D   A   C   V   K   N   N   V   P   L   I   Y   A   G   V   V   G   G   E   Y   A   S   A				
UniRef90_UPI0003B68CDF	V   D   V   V   L   D   G   S   D   N   L   A   T   R   Y   L   I   I   T   S   W   A   C   A   R   A   G   I   P   P   H   V   W   A   S   I   L   G   F   D   A   Q   L				
UniRef90_R9CPE3	Y   D   I   V   V   D   G   S   D   N   F   T   T   T   R   Y   L   I   I   N   D   A   C   V   A   L   H   K   T   L   V   Y   G   S   I   F   F   E   G   Q   V				
UniRef90_B5Y779	F   D   V   I   M   D   G   T   D   N   Y   Q   A   R   F   V   V   M   N   D   V   A   K   K   N   G   I   P   P   F   A   F   G   S   V   A   G   A   Y   G   M   S				
UniRef90_UPI0003B5F5F3	Y   D   L   I   V   D   G   S   D   N   F   P   T   R   Y   L   I   I   T   N   D   A   A   H   L   A   G   K   P   L   V   W   G   A   I   L   R   Y   H   G   Q   L				
UniRef90_UPI000463B6AC	Y   D   V   V   L   D   G   A   D   N   F   P   T   R   Y   L   V   S   D   A   A   E   V   L   G   L   P   L   V   V   W   G   S   I   Y   R   F   Q   G   Q   V				
UniRef90_J7QTB8	Y   D   I   V   A   D   G   S   D   N   F   A   T   R   Y   L   V   S   D   A   C   F   Y   E   K   K   P   L   V   T   A   A   L   G   G   F   D   A   S   L				
UniRef90_UPI0004772F58	A   D   V   V   I   D   G   S   D   N   F   S   T   R   Y   L   V   S   D   A   C   A   L   A   G   V   P   L   V   S   A   A   L   G   R   F   D   A   T   V				
UniRef90_U3GZ85	V   D   L   V   I   D   G   S   D   N   F   D   T   R   F   L   I   I   D   G   D   I   T   A   E   L   G   I   P   P   L   V   L   G   A   V   L   G   H   E   G   Q   V				
UniRef90_F0P9C1	P   D   M   V   L   D   G   L   D   R   F   E   T   R   Y   L   V   N   E   A   T   R   K   D   I   P   Y   I   Y   G   A   V   V   V   G   S   Q   L				
UniRef90_W4VKJ0	V   D   V   V   I   D   A   T   D   N   F   D   T   R   L   I   I   N   D   I   C   Q   K   Y   R   K   P   W   V   Y   G   A   C   V   A   S   Y   G   V				
UniRef90_F8ADU7	V   A   G   V   V   I   D   A   T   D   N   W   E   S   R   F   I   I   L   A   D   M   C   E   A   K   R   K   F   L   V   H   A   G   L   S   G   A   F   G   Q   V				
UniRef90_W4E830	A   D   L   V   I   D   A   R   Y   D   F   P   E   R   Y   A   I   N   R   L   C   V   D   T   N   T   P   M   V   E   A   A   M   Y   G   F   E   I   S   L				
UniRef90_Q85G13	Y   D   I   V   V   D   A   T   D   N   A   R   S   K   K   I   I   L   M   E   A   C   E   Q   L   C   P   L   V   I   A   S   V   W   Q   W   T   G   I   L				
UniRef90_UPI00037E6BA2	A   D   L   V   V   E   C   T   D   H   A   P   T   K   H   I   L   V   S   D   A   C   H   I   L   L   S   K   P   L   V   Y   A   A   V   H   K   Y   E   G   Y   V				
UniRef90_I3TDU5	V   D   V   V   V   D   G   D   T   D   N   F   P   T   R   Y   L   V   N   D   A   C   V   R   L   G   L   P   P   E   V   W   G   S   V   L   R   F   D   A   Q   T				
UniRef90_F4H5C3	Y   D   V   V   V   D   G   D   T   D   N   F   P   T   R   Y   L   V   N   D   A   C   V   R   L   G   L   P   P   E   V   W   G   S   V   L   R   F   D   A   Q   T				
UniRef90_X1DC93	K   D   Y   I   V   D   C   S   D   N   A   T   K   F   M   V   N   D   A   I   I   R   N   N   V   K   C   T   I   A   G   V   P   V   K   D   F   Y   G   Q   M				
UniRef90_G0W729	Y   D   L   I   L   D   G   L   D   N   L   K   T   R   Y   I   I   V   N   Y   I   A   V   K   K   K   I   P   Y   V   F   G   S   V   L   E   Y   T   G   N   V				
UniRef90_UPI00037F821B	UniRef90_Q9RS58	H   D   L   T   V   D   A   T   D   N   F   E   T   R   Y   L   I   I   A   D   T   C   R   E   L   G   R   E   W   V   W   G   A   A   S   G   V   S   G   L   C			
UniRef90_J7IW00	V   D   L   V   F   D   A   L   D   S   L   A   A   R   V   V   V   E   R   V   C   H   Q   L   K   P   L   V   F   A   S   I   A   G   W   Y   G   Q   I				
UniRef90_S3UZZ7	W   D   L   V   I   D   C   T   D   T   S   P   A   K   Y   A   I   I   D   D   V   C   K   Q   G   K   P   Y   V   Y   G   A   I   C   G   F   E   G   Q   V				
UniRef90_W4PFZ4	F   D   L   V   M   N   A   L   D   N   L   S   A   R   K   H   I   V   N   R   M   C   L   S   V   G   V   P   L   V   E   S   G   T   A   G   Y   L   G   Q   A				
UniRef90_F4PUL5	V   D   I   V   V   D   A   L   D   D   N   F   E   T   R   Y   L   I   I   N   E   N   F   C   V   K   S   R   K   P   L   V   I   P   V   L   V   E   G   T   F   G   Q   V				
UniRef90_W4VKJS4	V   D   I   V   V   D   A   L   D   D   N   F   E   T   R   Y   L   I   I   N   E   N   F   C   V   K   S   R   K   P   L   V   I   P   V   L   V   E   G   T   F   G   Q   V				
UniRef90_W8P3T9	V   D   V   V   D   C   O   F   D   N   F   E   T   R   F   L   I   I   D   D   Y   S   Q   K   G   K   P   L   V   I   P   V   I   S   S   M   G   A   G   N   K   L   D   P				
UniRef90_R6D8T9	Y   D   Y   I   I   D   A   D   T   V   T   G   K   L   E   I   I   V   K   R   A   D   A   A   G   V   P   V   I   S   S   M   G   A   G   N   K   L   D   P				
UniRef90_A0A031FLR7	A   D   I   V   I   D   T   S   D   S   F   A   T   R   R   A   V   A   A   A   T   E   A   M   G   L   P   L   V   W   G   A   V   R   E   W   H   A   Q   I				
UniRef90_E6X0B2	F   D   L   I   I   D   A   T   D   N   L   P   V   R   S   K   I   I   D   A   W   A   K   S   C   R   I   I   P   W   V   Y   A   S   V   E   A   F   N   G   Q   V				
UniRef90_UPI000305D469	Y   D   F   V   V   D   G   A   D   S   F   P   T   R   L   V   S   D   A   C   T   V   L   D   I   P   H   V   W   A   A   V   L   T   D   G   G   Q   L				
UniRef90_K5X840	V   D   L   V   C   V   T   D   Y   D   N   E   N   L   R   R   I   I   N   E   I   C   R   R   Y   G   K   S   F   Y   A   G   G   S   Y   G   F   G   Y   I				
UniRef90_R6PCZ2	Y   D   Y   V   V   D   A   V   D   T   V   T   A   K   E   I   I   M   K   A   Q   E   K   G   V   P   V   I   S   C   M   G   A   G   N   K   L   D   G				
UniRef90_C0SGB1	Y   D   V   T   I   A   T   D   L   D   Y   D   T   L   C   W   I   I   N   S   C   R   V   A   N   R   R   F   Y   A   A   G   I   I   H   G   F   Y   G   Y   I				
UniRef90_E2N4Y7	Y   D   V   V   D   C   O   F   D   N   F   T   R   Y   L   I   I   N   D   A   V   K   S   N   K   P   W   I   I   V   G   I   L   Y   H   Y   E   G   Q   V				
UniRef90_B6YW19	A   D   L   I   I   D   A   D   D   N   D   L   Y   T   R   Q   V   I   I   N   D   Y   A   V   K   S   N   K   P   W   I   I   V   G   I   L   Y   H   Y   E   G   Q   V				
UniRef90_R1BC70	Y   D   V   V   D   G   S   D   N   F   P   T   R   Y   L   V   N   D   A   C   V   L   L   G   L   P   L   V   Y   G   A   V   Q   K   F   E   G   Q   V				

170 180 190 200

UniRef90_M1IMH9	M L I V P R E G P C L R C F M N Y D E H E N E V N A C T I G T L D T V I S I T A
UniRef90_D2RHM0	T T V V G S P C Y R C L Y S F P K Q P V F G F T C G V A G S I Q C A E T
UniRef90_L7WV16	T T F I P G K T P C F N C L V P Q L P S I N L T C D T V G V I Q P A V T M T T
UniRef90_UPI00026C6C3D	S V F W D V H P V P P C R P G E V P S C A E A G V L G M L C G V I G S T M A M E A
UniRef90_UPI000376EB72	F T V L P G K T A C L E C I Y L G L K D E D L P H P S V L G I I A S I Q V S E A
UniRef90_W4TES0	A V F N C Q G S K N L R D I F P E S P L D E D I P D C D L P G I I G S M M A L Q
UniRef90_M2YGA7	S V F W A Q H G P T Y R D L H P V P P E A G V L G A L P G M G S T L A M E A
UniRef90_A0Z9B5	V A F T G S R G E G C Y H C L A P Q C A T G I L G P V A T V A L R Q V L D V
UniRef90_UPI0002F415B2	I S F N A Q D V D A C Y H C L Y P F C S T S G V I G P L V G I V G S L Q A L E A
UniRef90_UPI0003699E4D	G G F C Y N A P F P D L P Q R F G S C A E D G V L G P I V G I I G S L Q A Q M T
UniRef90_B11124	T T L L P L S G P C W H C L F P T P P P A G I L G P V A G M G C L Q A T E A
UniRef90_UPI0002FDD148	F P F V P A E S A C F R C L I P V L P A I N E T C D T T G I I S P A Q C A E A
UniRef90_G0CSL5	A L W H S G P C Y Q L P A D A V P T C V T A G V L G V T T S V V G G L M S T T A
UniRef90_A4BXK9	A T F N V A Q E D G T Y S S N L R N C E E A G T L N A I A G M I A T Q Q V N E V
UniRef90_UPI0003152E0A	S V F H A R G A G G Y Y P E P P Q K E I V G V L S P V V G V I G S L Q A L E T
UniRef90_A2SPV8	T T L I P G L P C L R C I V P T T P T W E I G V T C G A I G S I E A S E A
UniRef90_UPI00040BAAB1	T V L R P F E Q N P T Y R C L F P E P P E G A V P T C T G V L G A M M A L E T
UniRef90_UPI0004747D57	Y G I D Y K G P C L K C V L D K I P E N G V L P T V I Y Q V A S M E V S E L
UniRef90_Q0G7U1	T V L T P Y R E G P R Y R D L F P E C A E A G I L G T T T G V L G T L A A S E A
UniRef90_J7F699	S T F N Y Q G G P K Y R D F H N S I E E N T V L G L L P G I I G T L Q A T E A
UniRef90_B6JCQ8	T T T I R A H E F N P T Y R C L F P E A P P P G T I P T C E G V L G S M M A L E A
UniRef90_M7YE82	G I N Y R D I Y P D L P S A Y P N C S E T G V L G V L P G I I G T L Q A A E A
UniRef90_F9L7R0	Y G I D Y Q G P C L K C L M Q T I P E N G V L P P I V S I V A S Y E V A E V
UniRef90_B0TY64	G I F N I S H S S A C Y H C L F P T T E E Q G I V G P V G I I G T M Q A L E A
UniRef90_M4U715	M F F D N Q S D S A C Y H C L F P T T E E Q G I V G P V G I I G T M Q A L E A
UniRef90_U3TTI5	G G F C Y R A L F P Q L P A S A N C N T A G V M G P A V S A L G A M Q A Q M A
UniRef90_E0DI72	S V F H A G H P T P P L P G A V P S C A H A G V L G P I V G V V G S A M A M E T
UniRef90_F9DS39	F P T G V A E E Q P C L H C L E A L P P Q S L T C D T V G V I S P I V V T T A
UniRef90_I4WZP4	Y T I I P G E T P C L H C L E N I P P M G G V T C D T V G I I S P
UniRef90_F2G2T1	N L P Q N S T S C G C Y A C C V R E D C L S K G V L G P V V G M A A C H Q A T Q A
UniRef90_I0XTA4	M G V R P E I D A C F C R C V Y E N P P A P E V I G S M A G M G T I Q A T E C
UniRef90_C5KCL6	T V Y C S G E A G P C M R C V F P G C D T L G F P P P G M G C V M A S E A
UniRef90_UPI00040BDD8E	Y G I D F K G P C L K C L M E T L P S N G V L P P V I S L I A S M E V S E V
UniRef90_Q7UJ43	R F F A G V S P C F R C L V P E V P D P G V I G P A T H L I A S L Q S S E A
UniRef90_A0A011TQC6	S V F T Y N D P Q P C Y Q C L S A S C V E A G V M A P V V G I V G A V Q A M E T
UniRef90_W5HU17	T V Y H H N G S P C Y R C L F P N P P P V A A C Q R C P G V I G C L Q A L E A
UniRef90_K1FMB1	S V F N Y E A R Q R K T Y R D L Y P D E K E M L R M P P P A V T G S V E A T E V
UniRef90_Q0U1Y0	M V L N N P P S G P C Y R C V F P K P P E G G I L G P V V G V M G V L Q A L E A
UniRef90_UPI0003B5F3A8	G V Y R G W E P K P C Y R C F V M T C A E E G V L G P V T G I V G S I A A L E A
UniRef90_Q5CTY0	T V Y N Y S N G P C Y R C I A P E D N G K V D G M M V G V I G C L Q S T E V
UniRef90_V61970	L G V R P G L D P C I Y P S C E A G V I G S M A G I G S I Q A T E A
UniRef90_UPI000372CC4B	L A V D P G K S A C L G C L V K A P P A Y W V I G A V V S A M I A Q I A A L E G
UniRef90_E8RA53	T V V P I P G K T P C L R Y L F H E K G R V I V M P H I P G L L G L L E V N E V
UniRef90_UPI0003625873	T T T I R A H E P N P T Y R C L F P N C A E A G V L G A L G A G V M G S L M A M E V
UniRef90_B2GCL7	M L I D P S K G P C L N D V F P D D C D L I G V T T P L V P L V A A N Q V S L A
UniRef90_C6VPMP4	M P I R A W Q H A C L N C V Y H N L E A L Q Q T D C D L L G V N T A L V P I I A
UniRef90_W0JEK8	S T L K D K K L E D V F S F G D Q E N Y I L P Y T V G V V G S I Q A M E V
UniRef90_S2FHB4	A V F N Y N N W G P C L R D L F E T P P P P H V L G V P I P G L L G C F Q A N E V
UniRef90_C4L0I0	Y T V W P E E A P C L R C L M R H C A T A G V V A P V Q L V A S R Q A V E A
UniRef90_F4AS52	A L F T P D G P C F R C V F P E I P V D P C N A P G M L G L L Q A N S C
UniRef90_A2BYV2	S V F N L K K N N S P N L R D N I P S C E E F G V I G V S T G L I G V L Q A N E A
UniRef90_UPI00045E8861	T T T I R A H E P N P T Y R C L F P E P P E A G V L G A L A G V A G S L A A L E A
UniRef90_B3L6W7	N V F N M K E T S N C Y R C C E Q N D C D E N G I L S T V T G I I G I L Q A N E V
UniRef90_Q3IFN4	S L D L R N A N S P C Y G C C F P Q C C D N A G V I S P L L G I I G S M Q A Q L T
UniRef90_L1MM05	S V F W D I F P E P P A P G S I P N C A Q A G V L G P L V G I I G S A M A M E T
UniRef90_W7KK99	K L V V P G K T A C L S C F L E P V D S P N A C E T I G T T A T V D A I A
UniRef90_UPI0003B6CDF	S V F W A G H P T P P A P G T V P S C A A G V L G P V V G T V G S A M A M E A
UniRef90_R9CPE3	A V F N Y N F P E V P V P E P D I P C D S N G V L G P L P G I V G T M M A M Q V
UniRef90_B5Y779	K M F L P D E K I C L D V S N A P T A A T G G L I S P I L G V V T A F M A T E T
UniRef90_UPI0003B5F5F3	G V G W R G H G P G Y R D L F P I A P A P G E V P S C E L G G I G A L M S T E V
UniRef90_UPI000463B6AC	S V F W G A P R L A T Y R D V F P D C A T G G V F G A M C G T V G S V M A T E A
UniRef90_J7QTB8	T T T L R P F E P N P T Y R C L F P T P P E A G V L G A L A G V V G A M M A L E V
UniRef90_UPI0004772F58	T T T L R P F E P N P T Y R C L F P E P P P A G T V P S C A G V A G T L V A L E A
UniRef90_U3GZ85	A V F N W I D P D P C L R D L Y P E P P P Q R G V L S S T T G V I G S L M A A E A
UniRef90_F0P9C1	S V F P I P S H D G P C L H C V Y P C V P D V P T T V M V P A V H L A S F V V A E V
UniRef90_W4VKJ0	T T T V L P P D E T P C L M D H I P N D G A T C D T V G I I S P H Q V T E V
UniRef90_F8ADU7	T S F L P G S S P K F K D V F A G A P E E P A A F F I C A V L G G I Q A F E V
UniRef90_W4E830	T T T V I P G L T P C I E C L Y P E L P P Q W P V L G A T S G I A G C L A A L E A
UniRef90_Q85G13	G V Y Y R G S K M N E I L N Q S N Q K M G V I G V L P T L M G Y F Q A M E V
UniRef90_UPI00037E6BA2	A L F H L R D L F P L P D P N I P D C A T V G V I P T A V G I I A L L Q A N A A
UniRef90_I3TDU5	T V V L P P G V T P C L R A L F P I S D E T Q V F P T T P G I I G L I E A L E T
UniRef90_F4H5C3	T V F W G R P P A P P P P D T V P S C A E A G V L G A L C G Q V G S V M A T E A
UniRef90_X1DC93	I T I N P K K S A C Y R C V F Y G E P E K Q I I G M T P G I I G I L E A V E V
UniRef90_G0W729	T I I N P F M N M G P C Y R C F F P V P P E G G V I G P C I G V M G V M M A V E A
UniRef90_UPI00037F821B	S V F Y P P E P T P C L N C I F P T C E T V G I I N T A T S L V A S I E V N E A
UniRef90_Q9RS58	S V F G P H R D V F P T P E D D S C D E L G V L G P V P N L V G D L M A L Q A
UniRef90_J7IW00	G V S L P G D F S V Y G H G E R G V E S K W G N P A F T P A V V A S L S V A E G
UniRef90_S3UZZ7	S L F S P N G K P C Y R C I Y P R L D E N V L G I Q T A L A G L Q Q A S L A
UniRef90_W4PFZ4	S V F H Y G E R K K S Y R D L Y P D E E E M R R M
UniRef90_F4PUL5	T V I L K E K T E C F E C L P K E A P K E F A V C T I R S N P S S P I H C I V W
UniRef90_X1CWS4	T T T L P G R T P C L N C I F P S P P K F P I I G V T T G F F G V L Q A N E V
UniRef90_W8P3T9	T T T V P G K T K N L F P S V R E K K G K F P I I G A T A G V V G S I Q A N E V
UniRef90_R6D8T9	T A F R V A D I Y K T K V C
UniRef90_A0A031FLR7	T V F W S R P P E G D P V V D P T C A Q V G V L G A L C V Q V G G I L A T E V
UniRef90_E6XOB2	C F F D R A D F G V F A V S D H T P A G I A A P I V Q M V G S F Q A N L A
UniRef90_UPI000305D469	S V F P H A S R G P V Y R D L M P V L P P A G V P S C P G V L G T A M A G E V
UniRef90_K5X840	F C D L I E H E Y
UniRef90_R6PCZ2	S Q F K V S D I Y K T S M C F
UniRef90_C0SGB1	S V F N K D G Y T T T Y R D L F P T P P E A G I L P T V S S M I G H L Q A N E V
UniRef90_E2N4Y7	M P I P G K T A C F R C L M P K L P S R P M P T C A V A G I M S Y V P P L A
UniRef90_B6YW19	S L F N L R L P D P N Y R D L F P E P P P P G V
UniRef90_R1BC70	

Sequence logo showing conservation across UniRef90 entries from positions 210 to 240. The x-axis represents positions 210, 220, and 230, and the y-axis lists UniRef90 entries. Each position has four bars representing A, T, C, and G. Positions 210, 220, and 230 show high conservation of C, T, and G respectively.

UniRef90\_M1IMH9  
UniRef90\_D2RHM0  
UniRef90\_L7WV16  
UniRef90\_UPI00026C6C3D  
UniRef90\_UPI000376EB72  
UniRef90\_W4TES0  
UniRef90\_M2YGA7  
UniRef90\_A0Z9B5  
UniRef90\_UPI0002F415B2  
UniRef90\_UPI0003699E4D  
UniRef90\_B1I124  
UniRef90\_UPI0002FDD148  
UniRef90\_G0CSL5  
UniRef90\_A4BXK9  
UniRef90\_UPI0003152E0A  
UniRef90\_A2SPV8  
UniRef90\_UPI00040BAAB1  
UniRef90\_UPI0004747D57  
UniRef90\_Q0G7U1  
UniRef90\_J7F699  
UniRef90\_B6JCQ8  
UniRef90\_M7YE82  
UniRef90\_F9L7R0  
UniRef90\_B0TY64  
UniRef90\_M4U715  
UniRef90\_U3TTI5  
UniRef90\_E0DI72  
UniRef90\_F9DS39  
UniRef90\_I4WZP4  
UniRef90\_F2G2T1  
UniRef90\_I0XTA4  
UniRef90\_C5KCL6  
UniRef90\_UPI00040BDD8E  
UniRef90\_Q7UJ43  
UniRef90\_A0A011TQC6  
UniRef90\_W5HU17  
UniRef90\_K1FMB1  
UniRef90\_Q0U1Y0  
UniRef90\_UPI0003B5F3A8  
UniRef90\_Q5CTY0  
UniRef90\_V6I970  
UniRef90\_UPI000372CC4B  
UniRef90\_E8RA53  
UniRef90\_UPI0003625873  
UniRef90\_B2GCL7  
UniRef90\_C6VPM4  
UniRef90\_W0JEK8  
UniRef90\_S2FHB4  
UniRef90\_C4L0I0  
UniRef90\_F4AS52  
UniRef90\_A2BYV2  
UniRef90\_UPI00045E8861  
UniRef90\_B3L6W7  
UniRef90\_Q3IFN4  
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UniRef90_R6BKM2	V G G Y T A E A L A R S G V V G T F D L I D D D K V C L T N I N R Q I I A T R K T
UniRef90_R7S6E5	V A T E A I K N I V L A G I G K L V V V D A D D V A E E D L G A G F F F R D E D
UniRef90_UP10004650EA5	V G G Y T V E A E A L A R S G V V G K L D L I D D D K V C V T N I N R Q I I A L G S T
UniRef90_B0NCK2	V G S H C I E A L A R S G V V G R L I I V D N D K V S L T N I N R Q S I A Y H S T
UniRef90_F1L101	I G C E I L L K N L V L A G F F A N I D V V D L D T I D V S N L N R Q F L F R R E H
UniRef90_UP10003749D4D	V G G Y T A E A L A R S G V V G T F D L I D D D K V C L T N I N R Q I I A T R K T
UniRef90_W5J6E3	L G S P V A L Y L A S S G V Q N I G I A D H D K V D I S N L H R Q I I F N E E D
UniRef90_UP10004417F62	I G C E I L L K N F A M R G D G E I I V T D M D L I E K S N L N R Q F L F R A K D
UniRef90_M5BRD7	V A T E A I K N I V L A G I G K L I I V D E E E V S E T D L G C G F F F R A E D S
UniRef90_UP10003D0BA21	I G C E I M L K G F A L V G N G G V T I A D M D H V E R S N L S R Q F L F R P K D
UniRef90_Q6G2G1	V G A Y A A E M L C R A G V V G H I T L V D A D T V Q P S N M N R Q F L F R P W D
UniRef90_UP100036059C7	I G C E I L L K N F A M I G L G C I T V T D M D T I K K S N L N R Q F L F R P W D
UniRef90_UP1000194E67	L G N E A I V K D L V L A G I G H I T L V D M D H V V R S N L S R C V L F R E R D
UniRef90_M5G4E3	I G C E I L L K N L A L S G F R Q I H V I D M D T I D V S N L N R Q F L F R A K D
UniRef90_R7D002	T A C E V I K N I V L A G I G K L I I V D E E E V S E T D L G C G F F F R A E D S
UniRef90_C9S516	V G A Y A A E M L C R A G V V G H I T L V D A D T V Q P S N M N R Q F L F R P W D
UniRef90_B6UD98	I G C E I L L K T L A L S G F S D I H I D L D T I E V S N L N R Q F L F R Q S H
UniRef90_UP1000382A80C	L G N E A V K N L A L S G F R Q I H V I D M D T I D V S N L N R Q F L F R G N D P
UniRef90_J9JAU5	I G C E I L L K T L S V T G F K I T I D L D T I D V S N L N R Q F L F R R E H
UniRef90_UP10003945E5D	I G C E I L L K N F A M M G D G E I I V T D M D T V A L S N L H R Q F L Y R S A D
UniRef90_A8MGM4	V G T F A V E A L A R S G V V G K F V L V D D D D I C L T N I N R Q I H A L R S T
UniRef90_S8BYZ8	L G C E I L K N L A L S G F K D I H V I D M D T I D I S N L N R Q F L F R E A D
UniRef90_R7L5H3	V G S Y V A E A L A R S G V V G H I L L C D P D T V S G S N L S R G V L F G N D P
UniRef90_Q0C785	I G C E I L L K M T K L S V T G F K I T I D L D T I D V S N L N R Q F L F R D E D
UniRef90_B0K979	V G S F A V E A L V R A G I G K L V L I D G D D V C V T N V N R Q I H A T T R T
UniRef90_UP100044174CE	V A T E A V K N I V L A G I G R L V I V D E D D V A P E D L G C N F L L R D E D D
UniRef90_UP1000444A52B	V A T E A I K N I V L A G I G V G K L V I L D G E N V A E E D L G A G F F F R D E D
UniRef90_B4K4X7	L G A E I T K N I I L S S G V N L V K L H D D K L V T E E E D F C S Q F L A P Q D S
UniRef90_I1QBS2	I G C E I L L K T L A L S G F R D I H I D L D T I E V S N L N R Q F L F R Q S H

	90	100	110	120
UniRef90_R7FCV2	V G R Y K I E V A E E R I H Q I	N P D C Q V	V R T H Q T F Y M P E	I A D Q F F S A
UniRef90_K6YZA4	I N K P K V E C A A R H L R A I	N N H C E I	I S S H Y L N L T P K N V S A L C D N	
UniRef90_H9G8F1	G K N R A E A S L A R A R D L	N P M V D	V K A D P E N I	E Q K P E E F F T C
UniRef90_A5G9T9	V G K A K A L V M A E R L R L I	N P Q A D I	V P Y K D F Y A A D N S D F F L H G	
UniRef90_A0A024U9Z6	V G Q S K A E V A K E V A L Q F N	P R V K I	T A Y H E N I S S R Y S I E Y F K Q	
UniRef90_E3PX48	L G S S K A L E A E K R V K G I	N P L T K V	V D S S N A M K I I A N	
UniRef90_G3MIC6	A G M H K V D A A A E T L M F I	N P D V E I	Q V H K H N I T V D N F E H F M D	
UniRef90_D4J1I7	V G R D K V E V M K E R M L D I	N P Q V D	V T V H K C F F L P D N A D T F F S C	
UniRef90_W5WSK4	I G E L K V N S A A E Q M R Q R N	S H I T	T A V Q A R I T D A T A D D L I A T	
UniRef90_M2N8M6	V G S P K A S V A A N F V M K R C	P G C T I	T P H V G K I Q D K D E D F Y M Q	
UniRef90_R5X8B8	I G K Y K V D V M K E R I L D I	N P D I K V	H V H K C F Y L P E T K D E F F S Q	
UniRef90_S7XL25	V G R S K L L D S V T E T V A R I	D P D I K I	H H S V H L D S S N A L E L F A G	
UniRef90_X0W854	V G R P K T Q S A K E T L L S Y N	P D V N	V V I H D G P L T S E N A M E I I S Q	
UniRef90_I1EDF4				
UniRef90_R7FGZ3	I G K P K V E V A K E R I L E I	N P N A N V	V E V Y Q E F F M P D S K E I L D D T	
UniRef90_A5D4P6	I G K P K A E I L G A E R L L A L	D P G L K	L E A V V K W D I R E T D L K A L L Q G	
UniRef90_K1L3U2	I G Q S K A E W M E E R L L S I	N P N L K I	I N A I K K F L E P E P M T Q L L A E	
UniRef90_UPI000225F67B	I G Q P K V R A A A Q A L A R L	N P A V K	V E A L K D R L T P V N A P A L I A A	
UniRef90_R6Q709	V G Q Y K T E V M K D R I L D I	N P P E A K V	N I H N C F F L P D N A D E F F E E	
UniRef90_G0U297	Q G L T K V E A A R Q T L E G I	M N S S V	M N S S V N L E H H L K L K S K N A L D V V R Q	
UniRef90_B8A1Z9	V G R A K V E S A A D A V R A L	L D D E V E L	R L Y A E R I L T S Q N A P D I L V G	
UniRef90_UPI0003716EF4	I G Q P K A D L M K E R I N D I	N P P E C E V	V A L K M F Y T E E T Y E E F F H D	
UniRef90_U2WJ1	V G Q P K T K A M K E R I L E A I	N P A A C V	D T I E S F Y L P D A A E R F F Q H	
UniRef90_C4LKT0	V G R P K A D V A R E R M H A L	N P S M R I	R T E G R F G P D N A E Q L C H E	
UniRef90_W2RKI8	V G K S K A E V A A A F V Q R R V	P D V K I	T P H N C K I Q D F D E D F Y M Q	
UniRef90_U1L6D6	I G E A K V D A M A S R I N E	I N P D C N V	S V I L D D F L T L E N I R E H E K	
UniRef90_S7ZQE1	I K K P K A L V A K D V A H N F	R P D V K	L E A Y H A N I M D S Q F V G W F K S	
UniRef90_L7VNY3	I G R P K V E V M R D R I L E I	N P K A E V	V V A Q K F Y M P G C A E E I L Q G	
UniRef90_M5E5X6	I R Q S K A V I A K E T A S A F	N P D V S	V A H H A N I I K A P E F D A F Y A S	
UniRef90_W9BYY9	I K K P K A L V A K Y A A H K F	N P K V K I	D A Q F N V D W F K G	
UniRef90_A0A022L5Y9	I G A L K T A S A E R A I T A L	A P H T V	T Q V P E H D A D N A E R L L T G	
UniRef90_UPI0003B6B894	I G K D K V D V A E E R I H D I	N P D C K V	T K W K T F Y M P D T A G Q F F S Q	
UniRef90_B8MQ74	I K K S K A L V A K E V A H K F	R P D S K L	E A Y H A N I I D S Q F N T D W F S T	
UniRef90_G6D0W1	I G E N R A E T S L Q R A R A L	N P M V D	V T A E T K A V V D D L P D S Y F A T	
UniRef90_W4JP70	V K Q S K A L V A A R T A S A F	N P F S V H	V T P V H A N I K D P Q F D P W F K S	
UniRef90_J3KED7	V G K P K A E V A A A F V Q K R V	K G V R I	I T P V Y V G K I Q D K D E D Y Y M Q	
UniRef90_R5NQW4	I G K Y K V D V M K E R I L E I	N P D A K V	V E T V Q E F Y M P N S E N Q I I T D	
UniRef90_V5Z2Z4	I G K E K V F C A R R A L A A R D	P A C V V	D A R A H A L T A S A T E A A L D G	
UniRef90_L7MCD3	V G K P K A F I T A K E S A E R L	D P H V N I V	V A H H D S I M P E Y G H D F F K G	
UniRef90_G1KGJ3	V G Q N R A M V S Q R H L D K L N	H S H V S V I	V I A H T E R L S E S F L S T	
UniRef90_UPI0002F5A123	E G M S K T D V M A A R L K E I	N P D I V L	H P F C H F H T G D D F E V L M T Q	
UniRef90_UPI00046C2697	V T K M K S D T A A A A V R Q M N	P N L H I	T S H Q D R V G P D Y D D D F F E G	
UniRef90_R6GF8E	V G Q D K V A V M K N R I L D I	N P T A E V	V V I H K I F Y S K N S G Q G I I D S	
UniRef90_W1P0Q5	V G Q S K A K V A R E A V A L K	F R P N I	I N I T A H A N V N S E F N V D F F K Q	
UniRef90_W9YX11	I K K P K A L V A K E V A Q K F N	P N P V K	I A H H A N I K D K Q F N Q W F S G	
UniRef90_V9KCN4	I G K N R A E V S Q P R L A E L	N T Y V P	E G M S K T D V M A A R L K E I N G L P D T F F T N	
UniRef90_F4NUH9	I G K N A T E S V L P R I Q E L	N P R V R	V N A V S D D I N G L P D T F F T N	
UniRef90_D9PT2	V G K P K V E V M K E R I L L E I	N P N L K	V T A Y Q T F Y S E N S N M L L P D	
UniRef90_Q2NRJ1	V G Q P K I A V M A E R L A A I	N P E C R V	T A L D D F I T D N V A Q R I L N G G	
UniRef90_H2U2Y1	V G R P K A D V A A D F V N S R V	P G C R V	V V P Y H F K K I Q D L D E A F Y R Q	
UniRef90_M4FJK7	I K R P K A E I A K E A A Q K F	N R N V T I	I P H S D D I K P E F N V D W F R S	
UniRef90_E3L838	V G L N K A E S A R I N L L A G	N P S V K I	T A Y P I P F S T P N L L P D I S Q	
UniRef90_W2BSM8	I G E S K A R L A A E K L S K M H	P D G S F	L A V T E N F S P E N A L K L A S D	
UniRef90_F7NP64	I G R P K V E V M K E R I L D I	N P K A E	V T A Y Q Q F Y L P E A A C Q L I H D	
UniRef90_UPI00033338A8	I G K N R A E V S Q P R L A E L	N S Y V T	V T V A T Y T G P L V E D F L L S G	
UniRef90_G8M2S9	V G R Y K V D V A A E R V K E I	N P D I V	V K T Y K T F F M P E T S G Q F F S Q	
UniRef90_D5GAF7	V G L N R A E A A A P A L Q R L	N P R V A	V N D O D T S D P R G K D A E F Y G K	
UniRef90_M0W350	I G R S K V K S A A D T C R A I	N S S I K	V V E H H H T L K P S N A L E V V R K	
UniRef90_R7M8M7	I G M P K V E V E K E R I L L R I	N P T L R	V T T Y Q M F Y D A S H A D E I L N N	
UniRef90_B8GQU4	I G Q R K S E V M A A R I R D I	N P E I Q V	H I T S A F L S P D N V G E I V P D	
UniRef90_W8CAA8	V G K S K A Q V A R E S A L R F	N P D A K I	V I Q A Y H D S I M A T Y G V N F F K K	
UniRef90_A7RPW5	V G K S K A K V A R E S A L R F	N P D A K I	V A I H D N I T P E Y G I D Y F K Q	
UniRef90_R6BKM2	V G K Q K V E V M R D R I L E I	N P H A R I	H L H N C F Y L P D Q R D L I F A S	
UniRef90_R7S6E5	V G E K R V D A A K S H I E S L	N P L V V	V E T V P S V L E G D A L D K L L D G	
UniRef90_UPI0004650EA5	V G M Y K V D D A A A A E R V D	N P D C K V	T C H K M F Y M P E T A D K L L S Q	
UniRef90_B0NCK2	I G R Y K T E V M K E R I A D I	C P E T Q	V S T Y E T F I L P G N L E E I L K E	
UniRef90_F1L101	V G K S K A E I A A Q A V R A L	N P V N I	I T C H H D I L L S E K Y N V D F F E Q	
UniRef90_UPI0003749D4D	V K K F K V D V A T K R L K I	N S K I K	I K F C H N K I D L N N I N K I A K G	
UniRef90_W5J6E3	V V Q P K K S V R A A Q A V K R	M N G E I	R V T A H E N R V G P F Y D D T F F N R	
UniRef90_UPI0004417F62	L G K F K S E V A A A A V A A M N	P D C K Q	V E P V G P D T E N I Y G D E F F A D	
UniRef90_M5BRD7	V G Q R R V E A A K T R I Q S	N P L V D	V V A V S D I L L S D D H L D K T L A G	
UniRef90_UPI0003D0BA21	T G R P K A E V A A E A A H R L	N P D L Q	V T S H T C P L D P Y D D D F F S R	
UniRef90_Q6G2G1	I G L P K T T V L Q R E L I R R	N S Q S E	V H E L Q M F I T E K E D I N K L P	
UniRef90_UPI00036059C7	H R R L K A E A V A E R A V D	L D P G A S	V T P V A G R V E D L P P E V W K E	
UniRef90_UPI000194E6E7	V G R P K A E V A A E F L N S R I	P D C A V	V V P Y F K K I Q D M D E S F Y R Q	
UniRef90_M5G4E3	V G K K R V D A A L P R I A A L	N P L V N	V S S P L S L S D D S L H A L F H G	
UniRef90_R7D002	L G K P K V D I L A E R F R D I	N P E L E	L T V R A E P D G S I P E L L D R	
UniRef90_C9S516	V S K F K S D T A A T A V H Q I	N P H I R	V M S H Q N R V G P I Y D D D F F Q N	
UniRef90_B6UD98	V G Q S K A K V A R D A V L K	F R P N I	I T P Y H A N V D S H F N V D F F K Q	
UniRef90_UPI000382A80C	I G R S K V E V A R E T L R R I	A P G V	V T T R D R D L T T G I G L G E L A D	
UniRef90_J9JAUS	V D M S K A Q V L R D Q I V Q K Q N	P H I Q	V Q H Y I G R I Q E E R F Y K F F I Q	
UniRef90_UPI0003945E5D	I S E P K S V V A A A A V Q R M N	P D V R	V T A H Q N Q V G P A Y K D N F F W R	
UniRef90_A8MGM4	V G K S K V E T M K A R I L D I	N P K A E	V I A Y Q E L Y N S E S A E R L L D Q	
UniRef90_S8BYZ8	V G K S K A E V A A A F V M K R V	R G V K I	T P F N C A I Q D K D D D Y Y R Q	
UniRef90_R7L5H3	I G K A K V E V A K E R I L E I	N P D A N V	T P Y F K K I Q D E S F Y R Q	
UniRef90_Q0C785	L R T N R A E A S L S R A Q Q L	P M V E L	V T A H E N R V G P F Y D D T F F N R	
UniRef90_B0K979	I G K P K V D V M K D R I L E I	N P E A Q	V L T F K E F Y S S E N S D K L L K E	
UniRef90_UPI00044174CE	V G K K R A E A A K P R V E S L	N P L V T	V E V I T S Y L R P S N I D A T L Q G	
UniRef90_UPI000444A52B	V G R K R V E A A K N R I G E L	N P L V T	E V I P D A I I E G G G L D K L V G R	
UniRef90_B4K4X7	L G N N R A E A S L T R A R A L	N P M V D	I S A D T Q P L S E K N A D F F G Q	
UniRef90_I1QBS2	V G Q S K A H V A R D A V L K F	R P N I N	I T S Y H A N V D A Q F N V E F F K Q	

	130	140	150	160
UniRef90_R7FCV2	Y D Y I V D A I D T V T A K I D L I V Q A N R Y Q V P I M S A M G A G N K M D P			
UniRef90_K6YZA4	V D L V D C T D N F A V S Y V L S D Y C C Y R E S I P L V S A S V L G F N G Y V			
UniRef90_H9G8F1	F D V D C L T C C S K E A L V K V E Q I C H E N N I K F F T G D V F G Y H G Y M			
UniRef90_A5G9T9	Y D Y V V D A I D H I T S K L H L I R S C K E K E I P I I S S M G A A A K L D P			
UniRef90_A0A024U9Z6	F S L V V M N A L L D N V D A R K H V N R I C L A A H I P L I I E S G T T G Y L G Q V			
UniRef90_E3PX48	H D V I V D A L D S I D L R K Y I A K V C T E L N L P L V H G A I A G W Y Q G V			
UniRef90_G3MIC6	L I R T G N C V D N F E A R M A I N A C N E L N Q V W M E S G V S E N A V V S G H			
UniRef90_D4J1I7	Y D Y V V D A V D T V T A K L S I L M K C K E S G T P I I S S M G T G N K M D P			
UniRef90_W5WSK4	A D V V L L D G T D N F P A R Y A T S A A C C S R A R V P H I W G S I L G F D A Q L			
UniRef90_M2N8M6	F N V V I C G L D S I E A R R W I N A T L V S M V K P L I D G G T E G F K G Q A			
UniRef90_R5X8B8	Y D Y V V D A V D T V T A K L Q L V E E N A A G V P V I S S M G A G N K L D P			
UniRef90_S7XL25	Y D L V L D G S D N F A T R Y L V N D A A A I T G I P L V W G A I L G Y G Q Q			
UniRef90_X0W854	Y D I V M N G A D N F T T R Y L V N D A C Y F A G K			
UniRef90_I1EDF4	Y D V I L D A S D N V A T R Y L L N D S C V L L K K P L V S G S A L R F E G Q L			
UniRef90_R7FGZ3	V D Y I V D S V D T V T A K V E L V V R A N K L N I P I I S S M G T G N K L D P			
UniRef90_A5D4P6	S H F V L D G F D K N A H R L A V N R A C V R M G L P A V H G F A Q D F S S E L			
UniRef90_K1L3U2	F D Y V V D C I D S L T P K L H L I E G A Y R K G F P L V S S S M G A G G K V D P			
UniRef90_UP1000225F67B	A D V V L L D C A D S Y A A S Y T L S D G C L A A G K P L I I S S A S A L G L S G Y V			
UniRef90_R6Q709	Y D Y V V D A V D T V T A K I A L V M K M C L D I P I I S S M G A G N K L D A			
UniRef90_G0U297	V D L L L C C V D N F Q A R L T V N Y A C L Q F S I P W M E S G V I A E N A V S G			
UniRef90_B8A1Z9	Y D I V V D A T N S P A S R Y M L S D S C V L L N K P L I S S G S T I G L E G Q L			
UniRef90_UP10003716EF4	F D L V L D G S D N F P T R Y L V D D A A T L A G I P P V V W G A V H Q T G G Q A			
UniRef90_UP1000377D13D	L D F V V D A S D T I S Y K I H L I K E C L K R D I P M I S S M G A A N K M D P			
UniRef90_U2WJ11	Y D Y V V D A L D T V T G K I S L V L E C E K R R I P I V C S M G A G N K L D P			
UniRef90_C4LKT0	H D L L I D G S D N F A T R F V A A D A E M T E T P L V W G A V L R Y E G Q V			
UniRef90_W2RK18	F T L V V C G L D S I E A R R W I N A T L V E M I K P L V D G G T E G F K G Q A			
UniRef90_U1L6D6	F D Y V I D C I D Q V K V A A L I A H C K R N K L P I I I T I G G A G G Q I D P			
UniRef90_S7ZQE1	F N I V F N A L D N V A L D N V A L D R R H V N S M C L A A G V P P L I I T S S G T T G F N G Q V			
UniRef90_L7VNY3	D D Y I V D A V D T V T A K I D L V V S A K K M N I P I I S S A M G A G N K L D P			
UniRef90_M5E5X6	F D V V L N A L D D N L E T R R W V N R M C V M A R V P P M I I S S G T A G F L G Q V			
UniRef90_W9BYY9	F T T V F N A L D N L E A R R H V N K M C L A A D I P L V E S G T T G F N G Q V			
UniRef90_A0A022L5Y9	A D V V V D T S D S F S T R R D V A A A A E A L G L P L V W G A V Q E W H A Q A			
UniRef90_UP10003B6B894	Y D Y I V D C I D T V T G K L E I I S S R A K A I K K P V I S C S M G A G N K V D P			
UniRef90_B8MQ74	F D V V F N A L D D N L D A R R H V N R M C L A A N V P P L V E S S G T T G F N G Q V			
UniRef90_G6D0W1	F D I I V C A T G L K Q E Q L E R V V N N I C R D N N N K K F L C G D V W G T F G Y M			
UniRef90_W4JP70	F K I V V C G L D S I E A R R W I N S T N P E S L K P L I I D G G T E G F K G Q A			
UniRef90_J3KED7	L S Y V A D C I D T V T A K I E L V K N C K E L G I P I I S S A M G T G N K L D P			
UniRef90_R5NQW4	I D L A L D A A D N F A L T Y Q L S D A C L T R R I P P L I V S A S V L G R R G Y V			
UniRef90_V5Z2Z4	F D V I V N A L D N R S A R S H V N R M C L A A K V V P P L I I E S G S A G Y L Q G V			
UniRef90_L7MCD3	F Q I V V L T N S S L E F Q R L S D F C C H A N N I C L V I A D T K G L A G Q L			
UniRef90_G1KGJ3	Y D Y V V D A I D D S L S P K V F I V A A M K N G R R L I S S S M G A G G K M N P			
UniRef90_UP10002F5A123	L D G V V A N A L D D N V D A R M Y M D R R C V Y Y R K P P L I E S S G T L G T K G N V			
UniRef90_UP100046C2697	C D Y V V D C I D T V T G K L E I I S S R A K A I K K P V I S C S M G T G N K L N P			
UniRef90_R6GFE8	F N V V L N G L D N D L D A R R H V N R M C L A A V D P P L I I E S S G T T G F L G Q V			
UniRef90_W1P0Q5	F N L V F N A L D N M D A R R H V N K M C L A V D P P L I I E S S G T T G F K G Q V			
UniRef90_W9YX11	F Q V V V L T N S P L D E Q L W I G D F C H N K G I K F I V A D T R G L F G Q L			
UniRef90_V9KCN4	Y D I V V D C I D T V T G K L E I I S S R A K A I K K P V I S C S M G A G N K V D P			
UniRef90_F4NUH9	F G V V F N A L D N F D A R R H V N K M C L A A G V P P L I I D S G T T G F N G Q V			
UniRef90_D9PT2	F S L V V D C T D N P A S R Y L I S D A C L A A Y G I P P L I V S G G A I I R T E G Q L			
UniRef90_Q2NRJ1	A D L L V E A S D N F N T K F L I S A D V A E V T S T P L I V W G S V L R F E G Q V			
UniRef90_H2U2Y1	F D Y V I I D A I D T V T G K I D L V I R A R E K G I P I I I S C S M G A G N K L D P			
UniRef90_M4FJK7	F G V V F N A L D N F D A R R H V N K M C L A A G V P P L I I D S G T T G F N G Q V			
UniRef90_E3L838	F S L V V D C T D N P A S R Y L I S D A C L A A Y G I P P L I V S G G A I I R T E G Q L			
UniRef90_W2BSM8	A D L L V E A S D N F N T K F L I S A D V A E V T S T P L I V W G S V L R F E G Q V			
UniRef90_F7NP64	Y D Y I I I D A I D T V T G K I D L V I R A R E K G I P I I I S C S M G A G N K L D P			
UniRef90_UP10003338A8	F Q I V V L T N S P L D E Q L W I G D F C H G R G I K L V I A D T R G L F G Q L			
UniRef90_G8M2S9	Y D Y I V D A I D T V T G K I E L V V K A K E L N V I P I I S S A M G A G N K L D P			
UniRef90_D5GAF7	F D I V I I A T E L D L D C L H V N D I T R E C N R P F Y A I A A S Y G M Y G I			
UniRef90_M0W350	Y D I V V D A T D N L P T R Y M I S D C C V L L N K P L I I S S G A A A L G L E G Q V			
UniRef90_R7M8M7	F D Y V I I D A I D T V T G K I E L V N E E C F K R K I P I I I C S M G T G N K L D P			
UniRef90_B8GQU4	A D Y A L D C I D S I A C K A A L V H H C Q V N V I P I A S S M G A G G R T D P			
UniRef90_W8CAA8	F D I V I I A T E L D L D C L H V N D I T R E C N R P F Y A I A A S Y G M Y G I			
UniRef90_A7RPW5	F D V V M N A L D D N R A A R N H V N R M C L A A D V P P L I E S S G T A G Y L G Q T			
UniRef90_R6BKM2	C T Y V V D A V D T V T A K I D I V M A A K E A G V P P V I I S S A M G A G N K I H P P			
UniRef90_R7S6E5	V D M V V C V T D S D R N T L R I L N D A C R R L N K P F Y A G S G Y L G A Y P			
UniRef90_UP10004650EA5	Y D Y V I I V D A I D T V T G K I E I I M Q A C K N A G V P V I I S S S M G A G N K L D P			
UniRef90_B0NCK2	P D Y I I I D A I D T V T A K I A L A Q K A L E C G I P I I I S S M G T G N K L H G			
UniRef90_F1L101	F A V V L G A L L D N R A A R N H V N R L C L A A R V P P L I I E S S G S S G Y I G Q V			
UniRef90_UP10003749D4D	Y D I V I D V G T D S F R S K L L I N D Y C A K S K K I L I T G A I S K F D G H V			
UniRef90_W5J6E3	I I D C V T N A L D N V K A R E Y M D R R C V F Y E K P P L I I E S S G T L L G T K G N V			
UniRef90_UP10004417F62	V D L V V C A T D C Q K D E M L R L L N D A C R R A K K A F Y A G G G S Y G L L G F V			
UniRef90_M5BRD7	V D G V V A A L L D S F Q A R H Y V A A R C T H Y L K P L I E A G T Q G T R G S A			
UniRef90_UP10003D0BA21	A D L W I I S A D S P D M R P W I N E W C V K V N K Q A Y I N S G Y V N D I A L F			
UniRef90_Q6G2G1	F D I V I I V D A I D T V T G K I E L V E A R R W I N R P F Y V D G G T D F G S R G V			
UniRef90_UP100036059C7	Y D Y V I I V D A I D T V T G K I E I I M Q A C K N A G V P V I I S S S M G A G N K L D P			
UniRef90_UP1000194E6E7	H R L L V L G C L D N V A A R L H V N S H A Y F H G V P P Y V D G G T D E G F K G N V			
UniRef90_M5G4E3	F H I I V V C G L D S I I I A R R W I N G M L M S F I I P P L I I E S S G T L L G T K G N V			
UniRef90_R7D002	I N L V V C A T D C D R V T Y K I L D E A C H K S G K Q F Y C G G T D M G W Y G Y A			
UniRef90_C9S516	F D I V I I V D A I D T I S T P K C H I I S E A W Q R R I P I V S S M G A G A K R D L			
UniRef90_B6UD98	L D G V V A N A L D D N V D A R R L Y M D S R C V Y Y R K P P L I I E S S G T L L G T K G N V			
UniRef90_UP1000382A80C	F N V V L N G L D N L D A R R H V N R L C L A A E V P P L I I E S S G T T G F L G Q V			
UniRef90_J9JAU5	A D V V V A G C L D D S V R A R V D L L G R C A L V D A L L I D G G T G H W D G E V			
UniRef90_UP10003945E5D	F D I V I I V D A I D T I S T P K C H I I S E A W Q R R I P I V S S M G A G A K R D L			
UniRef90_A8MGM4	L D G V V A S A L L D T I F A R R Y E L L E R R C R T P L I I E S S G T E T G R G N V			
UniRef90_S8BYZ8	Y D Y V I I V D A I D D M V T A K I D L I E R C K N R G I K I I I S C S M G A G N K L D P			
UniRef90_R7L5H3	F K I V V C G L D S I I I A R R W I N R P F Y V D G G T D E G F K G Q A			
UniRef90_Q0C785	I S Y I V V D A I D T V T A K I A L Q E A D T L N I P I I I S S M G T G N K L D P			
UniRef90_B0K979	F D V V V C V I G A N T E Q I L R G V C R E A G I K F F A A D L W G M F G			
UniRef90_UP100044174CE	Y D Y V I I V D A I D R V V S S K V D L I V K C T L L G I P I I I S S M G A G N K L D P			
UniRef90_UP1000444A52B	V D L V V C V T E F D K L S L F E I L N E A C C R R L N K P F Y A G G G S Y G L L L G Y I			
UniRef90_B4K4X7	V D M V V C A T D L G R D E S I R I I N E A C C R R L N K P M Y V G G S Y G L L L G Y I			
UniRef90_I1QBS2	F D V V V C V I N G A S N E E L L R I I D T I C R E L G I P F F A T D V W G M F G F H			

170                    180                    190                    200

UniRef90_R7FCV2	T A F E V   D D   Y N T S V C		
UniRef90_K6YZA4	G G F C Q Q S P F P E   L P Q R A Q N C S S A G   V M G P A   V G T   L G S I   Q A Q F A		
UniRef90_H9G8F1			
UniRef90_A5G9T9	T   L I K V A D   A E T Q K C R M		
UniRef90_A0A024U9Z6	S V I M K G D T E   C Y E C T E K A T S K   V Y P I C T   R S T P D K M   V H C		
UniRef90_E3PX48	A T I Y P N D T T Y P K D   K K G I E K E   G N P S F T P A L V A S I   Q V S E V		
UniRef90_G3MIC6	I Q L V V P G K T A C F A C A P   L V V A S N I   D P T T M G I V A G F   L V Q N A		
UniRef90_D4J1I7	S R F R I L A D   L N E T T M C		
UniRef90_W5WSK4	S V F W Q G H G P   V Y T D V F P P S C A E A G V L G P   L V G V V G T A M A L E A		
UniRef90_M2N8M6	R V I F P T M T S C I E C Q L D M H A P R A A V P   L C T L A T I   P R Q P Q H C		
UniRef90_R5X8B8	T A F Q V A D   Y K T S V C		
UniRef90_S7XL25	A G V A W A G H G P T Y R D   L F P   V P P E G G V   L P S V C A   L G A   M C S E T		
UniRef90_X0W854	T   V Y N Y K G G   P C Y R C   L F P   C P P P P H C   V T N C   P G V I G S   L Q A L E A		
UniRef90_I1EDF4	T R F E V T D   Y K T S V C		
UniRef90_R7FGZ3	I A V L P G Q S A C   L A C V M D E N F P E T P   V L G V S V G V I G V A M A A A		
UniRef90_A5D4P6	T Q L R I   A D   S E T Y N C		
UniRef90_K1L3U2	G G F C L   R A L   F P D P P D S G Q T C A T A G V L G P   V V G M   L G C   I Q A Q M A		
UniRef90_UP1000225F67B	S A F R V T D   Y K T K V C		
UniRef90_R6Q709	H   I Q T L F P   V T P C Y E C C P P G M P E A K R E G V   C M G   I V A G F   L A Q N A		
UniRef90_G0U297	M V Y N H N G S P C Y R   C H F P N P T T T C   Q T G V V P G V N G C L   Q A L E T		
UniRef90_B8A1Z9	G L S W A A H P V P P A P G T   V A S C A E A G A   L P S V C G V I G G L   M V S E A		
UniRef90_UP10003716EF4	T R F M   K D   F K T H		
UniRef90_UP1000377D13D	S V F W A P H G P G   L R D   L F D G P   C A E A G V L G A T T A V I G N   L M A T E A		
UniRef90_U2WJ11	R V V L P S   S S C   E C Q L S M H A P R A A V P   L C T L A T I   P R Q P Q H C		
UniRef90_C4LKT0	Q   V   I K G G E T E   C Y D C   N P K A T P K T F A   C		
UniRef90_W2RKI8	T R F E V T D   Y K T S   C		
UniRef90_U1L6D6	Q P   I R V G H T E   C Y D C T A H P T P T T F P V   C T   R S T P S T P		
UniRef90_S7ZQE1	Q V   I K K G K T A   C Y D C T T K E T P K S F   P V C		
UniRef90_L7VNY3	T V F W S A P P G E   P V V E P P S C A Q V G V L G A   L C V Q V G G L   A G E V		
UniRef90_M5E5X6	T K L K V A D   I T R T S   V C		
UniRef90_W9BYY9	Q V   I K K S R T E   C Y D C N P K E   V P K S F   P V C		
UniRef90_A0A022L5Y9	F A D L   I D H E Y		
UniRef90_UP10003B6B894	Q P L L K D R T E   C F D C   P K P T P K T F P V   C T   R S T P S Q P   H C   V W		
UniRef90_B8MQ74	R V I L P T   L T S   C   E C Q L D M H A P R P A   P   L C T   I A T   P R Q P Q H C		
UniRef90_G6D0W1	S K L T   T D I Y K T N T C		
UniRef90_W4JP70	G G F C Y R A L   F P Q L   P Q N A A N   C N T A G   V M G P A V A T   L G A M Q A Q M A		
UniRef90_J3KED7	T P   F K G V T E   C Y E C   Q P Q P A E K T Y   P G C T   I R N T P S E P   H C		
UniRef90_R5NQW4	F C		
UniRef90_V5ZZ24	E K V Q   T D   S K S Y   H C N		
UniRef90_L7MD3	Q V V I   P F L   T E S Y S S S Q D   P P E K S   P   C		
UniRef90_G1KGJ3	N L   F E I   T D   F K T S   V C   P   C		
UniRef90_UP10002F5A123	A V W N   L H D R G P   C Y R C   F   P E T D Q   R V E R C   P A V G V V G V L   M A W E		
UniRef90_UP100046C2697	G L C   W S G E R   R V V D   G V G F R D   H P E Q   P V L   G A S T   G V I   G N L   M A T E V		
UniRef90_R6GFE8	T R L E V   A D   F A T S   V C		
UniRef90_W1P0Q5	F C		
UniRef90_W9YX11	T K F E   V A D   Y E T S   C		
UniRef90_V9KCN4	UniRef90_F4NUH9		
UniRef90_D9TPT2	UniRef90_D7PT2		
UniRef90_Q2NRJ1	UniRef90_H2U2Y1		
UniRef90_M4FJK7	R   V I L P   G M T A C   I E C T   L E   Y P P Q V N F   P M C T M P R   L P E H C   E Y		
UniRef90_E3L838	Q V   I K Q G V T A   C Y D C A   P K D P P K S F   P V C		
UniRef90_W2BSM8	A V W N   L H D R G P   C Y R C   F   P E T D Q   R V E R C   P A V G V V G V L   M A W E		
UniRef90_F7NP64	G L C   W S G E R   R V V D   G V G F R D   H P E Q   P V L   G A S T   G V I   G N L   M A T E V		
UniRef90_UP10003338A8	T R F E V   A D   Y K T S   V C		
UniRef90_G8M2S9	F C		
UniRef90_D5GAF7	T K F E V A D   Y E T S   C		
UniRef90_M0W350	F A D   L   I R H D F   I   E R E K S N M R T E		
UniRef90_R7M8M7	K   V   F L A K   I   L Y F   C   N P		
UniRef90_B8GQU4	T K F E I   S D   I S K T S   V C		
UniRef90_W8CAA8	T A I R   V G P   L S A T Q   L C		
UniRef90_A7RPW5	E   L   K K G   L   T Q C   Y E C   T P K A K Q K T F   P G C T   I R N T P S E P   H C   I V W		
UniRef90_R6BKM2	T V   I K K G V T E   C Y E C   Q P K P T Q K S F   P G C T   I R N T P S E P   H C   I V W		
UniRef90_R7S6E5	E   L   F E V   A D   Y E T S   V C		
UniRef90_UP10004650EA5	F C   D   L   L   Q   H   D   Y		
UniRef90_B0NCK2	T R F E V   A D   Y K T S   V C		
UniRef90_F1L101	E   L   F E I   T D   I S K T S   V C   P   C		
UniRef90_UP10003749D4D	S V I L   R D   V T E   C Y E C   I   Q K A N E K T Y A G   C T   I R N T P S A P   H C   V V W		
UniRef90_W5J6E3	F V   F N K N K   K S P   C L   R C F   M P E A P E T D M   L   D   C   Q   S   G   M   G   S   I   M   A   N   E   A		
UniRef90_UP10004417F62	Q V V V   P   F   L   T E S Y S S S Q D   P P E K E T P   S C T   V K N F   P N A   I   Q   H   T   I   E   W		
UniRef90_M5BRD7	F A D   L   I E H E Y		
UniRef90_UP10003D0BA21	S V   F   V   P   Y		
UniRef90_Q6G2G1	T K V   R   F   A D   L   W E T Y   H C		
UniRef90_UP100036059C7	Q V V I   P   F   L   T E S Y S S S Q D   P P E K S   P   C		
UniRef90_UP1000194E6E7	T V   H   V   K   G   K   T   E   C   Y   E   C   Q   P   K   P   V   P   K   S   Y   P   V   C   T   I   T   S   T   P   S   K   F		
UniRef90_M5G4E3	UniRef90_R7D002		
UniRef90_UP10003D0BA21	F C		
UniRef90_C9S516	UniRef90_C9S516		
UniRef90_B6UD98	UniRef90_B6UD98		
UniRef90_UP1000382A80C	UniRef90_UP1000382A80C		
UniRef90_J9JAU5	UniRef90_J9JAU5		
UniRef90_UP10003945E5D	UniRef90_UP10003945E5D		
UniRef90_A8MGM4	UniRef90_R7D002		
UniRef90_S8BYZ8	UniRef90_S8BYZ8		
UniRef90_R7L5H3	UniRef90_R7L5H3		
UniRef90_Q0C785	UniRef90_Q0C785		
UniRef90_B0K979	UniRef90_B0K979		
UniRef90_UP100044174CE	UniRef90_UP100044174CE		
UniRef90_UP100044A52B	UniRef90_UP100044A52B		
UniRef90_B4K4X7	UniRef90_B4K4X7		
UniRef90_I1QBS2	UniRef90_I1QBS2		

210                    220                    230                    240

UniRef90_R7FCV2	LNILLQQLQPSPLGQLMMSIDLQRNLRQSSFRF
UniRef90_K6YZA4	
UniRef90_H9G8F1	
UniRef90_A5G9T9	
UniRef90_A0A024U9Z6	I V W A K E C F K L L F G K M I K L L N R G D L L R N S F M I D L Y T N D E V I K L K Y L L K F G T V S H Y L G Y N A L Q D F F P T M Q M K P N S Q C
UniRef90_E3PX48	
UniRef90_G3MIC6	
UniRef90_D4J1I7	
UniRef90_W5WSK4	V K I L G G V G E P L V G V I A Y L S G M S G R W E Y I E L A I E W A H I I K W E E R K D I L D T D D P E H
UniRef90_M2N8M6	
UniRef90_R5X8B8	
UniRef90_S7XL25	V K L L T G I G E P L I G R V T T Y D A L S G R F R E V E Y A A S S D
UniRef90_X0W854	M K I I T D I G D P M I S K L L F D G F S G T F R H I K L R R N P E C S I C G
UniRef90_I1EDF4	I R C I T G G E V M A G C R I Y D L A F P E L I K I P L E R D P L C P V C G
UniRef90_R7FGZ3	
UniRef90_A5D4P6	
UniRef90_K1L3U2	I R L I L G T T P S P L G E F V R F E A      G R F S Q F R F D A A P E
UniRef90_UP1000225F67B	L K Y L L N F G T V S E Y I G Y D A M R D F F P S V K I K A N P E C A T C I K V A T R V G E P L C G R M L F D A L S S R F K T V N H K R S S T C T V C G I K L V T G T G D P L L G R V V I H D G L H G T F R E L T Y E R D P E
UniRef90_R6Q709	
UniRef90_G0U297	
UniRef90_B8A1Z9	
UniRef90_UP10003716EF4	
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UniRef90_U2WJ1	
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UniRef90_A0A024J7K3	L A N E I I K N I V L A G I G S L T I L D A N T V T E S D L G A Q F F L E E S D D
UniRef90_UP10004672804	V G S F V A E A T A R A G I G N I T I V D F D D V C T T A D L S S Q F F T E N D
UniRef90_A0A023G0D6	I G C E L L K N F A M M G D G C V Y I T I D M D V I E R S N I L N R Q F L F R P W D
UniRef90_H2XM91	I G C E L L K N L V L T G F R N I E V I D L D T I D V S N L L N R Q F L F Q K K H
UniRef90_A9E7P8	L A V P V L Q Y L V G A G V G Q I T L I D G D V M A E S N I L H R Q P L Y R M S D D
UniRef90_A9TU56	L G A E V I A K N L V L S G V V Q G L V D D E V V V L A D L G A N F C O L S E A D
UniRef90_D6DUU6	L G C A A A Q Y L I A A A G V G G S M T L L D F D T V S V S N L L N R Q F L Y L P E H
UniRef90_Q4N9I7	I G C E L I K T L L L T G V K K L T I V D M D T V D V S N L L N R Q F L Y L P E H
UniRef90_UP100047D3B57	V G S W A V E A L A R S G V V G S L T L V D A D D L C V S N T N R Q L P A L E G Q
UniRef90_M9NPG8	I G C E L L K N F A M L G G G Q V V T D M D L I E K S N L L N R Q F L F R P W D
UniRef90_V2XYB7	L G V E I A K N I C L A G V V K S V T V E D P E P V T I Q D L L S S Q F F T E N D
UniRef90_E8LGW6	V G G Y T V E A L A R S G V V G S F D L I D N D T V A L T N I L N R Q I I A T L D
UniRef90_U6IT67	I G C E H H L K N F A M M G N G K L F V T D M D I I E K S N L L N R Q F L F R P W D
UniRef90_UP10002B40F09	I G C E M L K N F S M M G V G C V Y I T D M D L I E K S N L L N R Q F L F R S H D
UniRef90_K1LHJ0	V G S N C A E A L V R G G V G E R I L I I D C V D V T I T N M N R Q A V A Y T E T
UniRef90_R5D489	V G S Y A A E I L A R S G V V G E L T L V D Q D T V S V T N I I N R Q L C A L H S T
UniRef90_UP100038909B7	I G C E L L K N F A M I G G G S V T V T D M D T I E R S N I L S R Q L L F R P R D
UniRef90_H9KFL3	I G C E L L K N F A M I G G G S V T V T D M D T I E R S N I L S R Q F L F R P S D
UniRef90_I3MLM4	I G C E L L K D F G A G G C G G V T I A D M D H V E H S N L L N R Q F L F R T H D
UniRef90_W9VW90	V G S F V A E A L A R A G V V G S S L T L V D H D R V A P S N I L N R Q L V A L R S T
UniRef90_F8EZI1	V G G M A A E A L A R S G V V G R L L L V D F D V V S I T N L N R Q V I A L H S T
UniRef90_S9UQM4	V G G H C A E A L V R A G V V G R I T L V D N D V V A A T N K N R Q L I A L D S N
UniRef90_L0AXB0	L G C E F M K N F A L L G C G T I T I T D N D R I E M S N I I S R Q F L F R S R H
UniRef90_R5QY10	V G G Y A L E A L A R S G V V G R I T L V D F D V F D E S N I I S R Q I L A L T S T
UniRef90_K6T6A2	I G G A T T E M L A R M G V G K L R I V D K D V F D S N I I S R Q I L M S N S K S
UniRef90_H2G1H0	V G S W A A E A L A R S G I G A I T I L I D M D D I C I T N T N R Q I H A L H N Q
UniRef90_A0A010RUR9	L G V E I A K N I A L A L G V V K S V T L Y D P Q G V A L A D L S S S Q F F L H P E D
UniRef90_H9JK60	L G C E F M K N F A L L G C G T I T I T D N D R I E M S N I I S R Q F L F R S R H
UniRef90_F0WHH2	V G G Y A L E A L A R S G V V G R I T L V D F D V F D E S N I I S R Q I L A L T S T
UniRef90_W9WAC2	I G G A T T E M L A R M G V G K L R I V D K D V F D S N I I S R Q I L M S N S K S
UniRef90_R9KQL9	V G S N C A E A L A R A G G V G H F I L V D H D V P E P S N I L N R Q A V A W Q H S
UniRef90_D0WJL2	L G C E V L V K C L C L S G F R R L D V I D M D T I H V T N L H R Q F L F R E K H
UniRef90_B9QE2	I G T E V A K N I V L S G I G H H T V L D S H I V N E T D L G S Q F F L T A N D
UniRef90_Q6FSK4	V G S Y I S E A V A R A G V V G N I T I L V D N D T V A E T N L N R Q I V A L K S T
UniRef90_R6Q8F7	V G S E L L K D C I L M G F G E I H V D I D L T I D L S N L L N R Q F L F R Q K D
UniRef90_C5DW18	I G C E M L K N W A M I G N G Q I T I T D M D S I E K S N I L N R Q F L F R A K D
UniRef90_R8BE03	V G S F A T E A L A R C G V V G T I I L V D H D R V C P S N I L N R Q I H A D V T T
UniRef90_UP10004728A72	L G C E M L K D L A L M G F R H I D V I D M D T I D L S N L N R Q F L F R K S D
UniRef90_A0A023FLJ2	V G S W A E A L A R S G V V G E I T L V D A D D L C I S N T N R Q I H A L Q S T
UniRef90_S6GF0	V G S W A A E A L A R S G V V G R L T I L D C H V A E S N I I N R Q V H A L E S T
UniRef90_N6XYC1	V G S V A A E M L T R C G I G R I L L M Y D Y D S V E L A N M N R L F F R P E Q
UniRef90_A0A059LCP7	U H P E D
UniRef90_P22515	L G V E I A K N V V L A G V V K S V T L Y D P Q G V A L A D L S S S Q F F L H P E D
UniRef90_U9T1K3	I G C E M L K N W A M M G R G A V H V T D M D T I E K S N I L N R Q F L F R S R D
UniRef90_A9TB34	I G C E L L K T L L V L T G F K H I H V N M D T I E E V S N I L N R Q F L F R K S H
UniRef90_W4GTU5	I G S V A A E M L T R C G I G K L I L Y D Y D H V E L A N M N R L F F R P H Q
UniRef90_K9KB82	V G S V T A E M L T R C G I G K L L F D Y D K V E L A N M N R L F F R P H Q
UniRef90_Q12RU2	V G T W V A E A L A R S G I G Q I S L M D L D D I C V T N S N R Q S H A L A S T
UniRef90_F0XE50	L G C E I L K N I A L A L S G F K D I H V I D M D T I D I S N I L N R Q F L F R Q S D
UniRef90_A0A016UTV8	L G C E E L L K N I A L A L S G F Q N I D V I D M D T I D I S N I L N R Q F L F R M S D
UniRef90_G0ULY0	I G C E E L L K N I V L V L T G F K H I H V N M D T I D I S N I L N R Q F L F C K N D
UniRef90_Q1N2P3	V G S W V A E A L A R S G F E H I K L I D L D D I C V T N T N R Q I H T L T S T
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UniRef90_R6PSX7	V G S W C A E G L V R S G V V R H I T I V D S D R V C V T N C N R Q L M A T S R T
UniRef90_C0EB96	V G G A C A E A I C R A G V V G S I L V I M D H D E V D I T N C N R Q F L F R R K D
UniRef90_F0ZBM9	L G C E I L K N I A L A L S G F R N I D V I D M D T I D V S N I L N R Q F L F R R K D
UniRef90_A0A037ZDP1	L A A G V L P Y L V G A G I G R I R L V D P D V V S E S N I L H R Q T H F A M A D
UniRef90_D7FXX1	L G C E F L K N I A C G E K G M I T V T D N D R I E V S N I L N R Q F L F R E H
UniRef90_D8RCF4	I G S E V L K N I V L V M G V G C I V M T D M D S V S K A N L V D Q A L Y H I D D
UniRef90_A1TXZ4	V G S W A A E A L A R S G I G Q I T I L I D M D D I C V S N T N R Q I H T L Q G Q
UniRef90_M0UUM4	L G C E E L L K N I A L A L S G F K N I H V I D M D T I D V S N I L N R Q F L F R I Q D
UniRef90_E9FRU9	I G C E E L L K N I A L A M M G V G Q V F V T D M D L I E K S N I L N R Q F L F R S H

	90	100	110	120
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UniRef90_E6VV95	I W R S K A Q A A R L L A A T R I N P S I T V	D A R H E F L T A D T F P H F L A G		
UniRef90_R5EI41	V G M R K V D A A K Q R V L S I N P A C V	C V V R T Y A V F Y T P E T A G Q F F T Q		
UniRef90_I3J8G4	L G Q N R A T C S V Q Q L A V L N P H V	V V A D Y T G P L D E N	L L L Q	
UniRef90_E1ZCX4	V G Q S K A E V A A R R I Q Q R I P G V T	V T P H H C M I Q D	K A D F Y E Q	
UniRef90_A8PV76	V G K S K A E V A A A F I R K R I P D C S	V V A H N C K I Q D	K D D Q F Y R S	
UniRef90_K8YM84	I I G K L K S E C A T N K I S E F D S S I	I K F I T Y Q L K V T E K L I N D H E I D		
UniRef90_K2IHM0	I I G R P K T E V M A E R I R L I N P E C Q	V T A V D D F V T P D N V A E L L P G		
UniRef90_L7MIJ5	L G K N R A E A C L Q A L T E L N T Y V T	V A A H T Q P L T	E D F L I K R	
UniRef90_D8Q082	V G K K R V E A A K S R V E S L N P L V T	V E I I S D V L V G S A L D T L I Q T		
UniRef90_G1W9G7	V G K H K V D V A E A R I H D I N R Q C I	V V H K Y Q M F Y L P Q N A D S I L S Q		
UniRef90_J7SK99	V G Q P K I E V M R E R I L A I N P E C E	V V H C T D D F V T P D N V A D M M P G		
UniRef90_E1UUS0	V G I L S K V E S A K E Q L Q L L N S E V E	L I P V C E S I S E E L F D N H F S E		
UniRef90_E0QL7	L G S Y K T D V F E E R L K K I N R D I	V I N K I T K K Y L P N N S E E F F D S		
UniRef90_UP100021A45B2	V G K N T A D V C Q P H L S E L N S Y V P	V D V L V L K G E L S E E K L K K		
UniRef90_A3YD18	I I G V A K V E A M A E R I K L I N P D C Q	V D C V E D F V T P D S V L E H L R D		
UniRef90_A5UL56	L G L S K S K V T K E K V R L I N P Y V K	V V N C F E E T V T K E N V D K I I G E		
UniRef90_B4KWX9	V G K S K A R V A R E S A L S F N P D A N	I T A Y H D S V T S D Y G V N F F K K		
UniRef90_B8BIM9	V G Q N R A Q T C V Q K Q L L N N A V I S T	I T G D L T K E Q L S N F Q		
UniRef90_H1UWT7	I I K K S K A L V A K D A A Q P F N P K V	K I V A H H A N I K D S Q F V K W F R D		
UniRef90_Q896X5	I I G M S K V E V M M K R I I E S I P N P C	N V I T H E I F A K E N N L L D I P N Q		
UniRef90_C3YVJ7	V G K P K A E T A A E F V N T R V P G C R	V T P H Y A K I Q D F D G E F Y R Q		
UniRef90_R6DUQ2	V G Q Y K A E V A A A R V V R D I D P D T	V V Y P I C A T Y D A A H R E E F F R K		
UniRef90_R4LQ06	L G N S K V H Q V A A W V S A F D P A V T	V V R P V H R R V T A D V E D L L T G G		
UniRef90_A6GAF1	T G K P K A T V M A E R L R L I H P T C A V	E A V R S F Y E A T S E S L T F R G		
UniRef90_F2K1S4	V G K A K V D A M K E R I L L I N P Q C Q	V V H C I E D F I T P D N I A E L F E P		
UniRef90_B6JWV3	V G Q P K A Q I A A E A I Q R R M P P N C	R V T P L V S K V V Q D I P M D Q L Y T		
UniRef90_C5DJB5	I I K Q A K A T T A A R A I E H V S N S K	L V A H Q A N I M D Q F P L A W F S Q		
UniRef90_E2N627	V G K N K T D V M A A R L L D I N P Q L	N L N T V I H E F L T P E R A T E I V P Q		
UniRef90_UP10004415503	V G R P K A I A A A E F V M K R A P G V	T V T P Y F G K I Q D K G E D Y Y M Q		
UniRef90_A0A024J7K3	V G K N R A E A A L P R I K E L L N P R	V D V A V N T S K V R D N S K E W I S E		
UniRef90_UP10004672804	V G R D K V D V M Q E R I L D I N P D	I N P D I R N F K E K Y N E E T S E M F F Q D		
UniRef90_A0A023G0D6	V G R M K S G T A A D A V V K K M N P N	P V K I V A H E N R V G P D Y T D D F F E A Q		
UniRef90_H2XM91	V G K S K A M V A K E S V L R L C P K A N	I N A H D S I F N P Q Y N M Q F F K Q		
UniRef90_A9E7P8	I I G R F K V I I A A A E A M A A L N P E	V I V T P R A E W L T P A N A P A L V A D S		
UniRef90_A9TU56	V G R N R A V A T A Q K L K E M Y P S A	D I V T P L S S V A V E S S S L G S R		
UniRef90_D6DUU6	V G Q P K V E S A R T A L A R I L N P N	V V Q F T L I D A M L D D D A L F A Q I A R		
UniRef90_Q4N9I7	V N K Y K A E V A R I R A L E L L N P K	T E V K S L V C D V N S W E P S D L T P		
UniRef90_UP100047D3B57	Y G R G K A D A M A E R C R A I N P Q A K	V D P V A S F L T P S N M E S L L E G		
UniRef90_M9NPG8	V Q K P K A T D T A G A V V K K M N P E	V N I I A H Q N R V G P E Y D D T F F E A		
UniRef90_V2XYB7	V G K S R A E A T V P R L A E L N S Y V P	V R N L G G S S P G Q E I A V D L I K G		
UniRef90_E8LGW6	V G Q P K V E V M A K R I A S I N P D A	N P C R Q C F C L P A N Q H E F F S Q		
UniRef90_U6IT67	I I G K C K S S I I A A S V V V K V I N	P Q L N I E A H E N K V E D V Y D D A F F E S		
UniRef90_UP10002B40F09	V Q K M K S E I I A A L A V K E M R D	I N P D I R N F K E K Y N E E T S E M F F Q D		
UniRef90_K1LHJ0	I I G R A K A D V V M A E I V H A I N P A C	Q V E A E V L E L H P D T I A Q H F T R		
UniRef90_R5D489	V G Q S K A E V T A R R C R D I S P S A V	I I H P I C A T Y D A A H R E D F F F S R		
UniRef90_UP100038909B7	V G K L K S E T A A A A V V R R M N P	T T R V T A Q P H H V G P F Y G D D F F M A		
UniRef90_H9KFL3	V Q Q S K S S T A A K V I K S M N P S M	K N P C K I N P L E V R V E D D F D E Q F W S S		
UniRef90_I3MLM4	V G R P K A E V A A E A A Q K L N P D	C I V T P L I R S L D P I Y N D D F F E A		
UniRef90_W9VW90	V G R L K T D V M A E R I I A D I N P D	C I R L T A V P E F L E E D G M E T F L S G		
UniRef90_F8EZI1	I I G K P K A Q V M Q E R I L D I N P Q A Q	V E A R Q E T Y T P A R A E S F F S S		
UniRef90_S9UQM4	I I G Q S K V E A L A R R L H D V N A A C	H C I V A M E R L I T A E D A A D L L Q R		
UniRef90_L0AXB0	I I G M S K S K V A S D A A V D I N P N C	K I N P L E V R V E D D F D E Q F W S S		
UniRef90_R5QY10	V G Q K K T V E V A R R R V L D I N P D	C I V T R D M F V N A D T L P Q L L I P		
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UniRef90_A0A010RUR9	V G K P R D E V T A P R V A E L N A Y T P	V K V H Q S S S L G E N L S Q F D K		
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UniRef90_F0WHH2	L L G S P R A S S A T K T L L E M N S D	V V C G A F Q V M D L S S A L A D A F F N Q		
UniRef90_W9WAC2	V G K Q K S E V A A E A A Q A M N P D I	M T D R I G P D S E D I F N E E F W H E		
UniRef90_R9KQL9	V G Q R K A Q A M K E R I L S I N P K A E	V R A C H C F L P E T A G E F F K E		
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UniRef90_B9QEY2	V G R P K A Q V A A E A L N A Q Y A H L R	V V H V T H V G R L E E K D E A F Y R Q		
UniRef90_Q6FSK4	V G K K R V E A V S D R L Q D M N P R	V N L V F D S A D L K S K T D D F Y K Q Q		
UniRef90_R6Q8F7	V G Q M S K T Q V M A D R I K E I N P S C	N V K T I N E F V L Y D N I D I L T D		
UniRef90_C5DW18	I I G Q P K S T T A V K A V Q H F S N S K	L V P Y Q N V M D T N Q F P L H W F D Q		
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UniRef90_UP10004728A72	I I G R P K V E V M K E R I L L K I N P P	D L N V I C R A A F Y G P D T A D E L L I G		
UniRef90_A0A023FLJ2	I I G K S K A E V A A A F I N Q R V P G	C Q V K P H F K K I Q D Y D E S F Y Q Q		
UniRef90_S6GJF0	I I G R A K I E A M A E R I A D I N P E	C L V H L E S I F I D P V N V R E I V D Q		
UniRef90_N6XYC1	L L G M A K V G A M A A R I A G I N P L	C A V E Q V E D F L T A E N A E D L L Q C		
UniRef90_A0A059LCPT7	C G L T K T E A A A A Q T L S G I N P D V	A L E P F T M N V T S V S G F E A F K R		
UniRef90_P22515	I I G Q K R G D V T R A K L A E N A Y V P	V N V L D S L D D V T Q L S Q F		
UniRef90_U9T1K3	V G K L K S E T A I A I N R M N P E T	K G Y K I A H Q T E N V Y N D D F F D R		
UniRef90_A9TB34	V G Q S K A R V A R E A V L K F R P G	G V E I V A H H A N V K N Q E F D D F F K Q		
UniRef90_W4GTU5	A G M T K T A A A T Q T L M D I N P D V	S F E E F T K D I T T P T N Y E H L L D		
UniRef90_K9KB82	A G L S K V Q V A A E H T L R N I N P D	V L F E V H N Y N I T T V E N F Q H F M D		
UniRef90_Q12RU2	I I G Q S K V V A M A R I R D I N P E C	K V N E L E D F L T L D N L G E H L V E		
UniRef90_F0XE50	V G K Y K A E V A A R F V M R R V R G	V T I T P H N R R I Q D F D Q T F Y M Q		
UniRef90_A0A016UTV8	V G K S K A E V A A A F V Q S R V S G	C T V T A H N C R I E D K P P S F Y R Q		
UniRef90_G0ULY0	V G E S K S V T A R K A I L S W F S P	P P S H R Y R H A N I K D E M Y D E S F F S Q		
UniRef90_Q1N2P3	V G Q L K V D A M A E R L R G I N P D	V I H V E A V M S F L T Q N N H N E L L S G		
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130            140            150            160

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UniRef90_E1ZCX4	F H V I V L G L D S L E A R R Y M N Q P D   A T V K P M V D G G T E G F K G H A
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UniRef90_E1UUS0	C D F V V S A D S P F F V H E W I N N A A L K Y G F S Y S N A G Y I E T Y G A I
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170                    180                    190                    200

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  S | M | F | E | V | A | D | I | T | K | T | S | M | C |
  F | C |
  R | V | L | I | P | G | V | T | P | C | F | E | C | T | L | W | L | F | P | P | Q | T | K | F | P | L | C | T | T | P | R | S | P | A | H | C | I | E | Y |
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  F | C |
  G | P | L | V | I | P | G | E | T | A | C | Y | E | C | Y | K | D | K | G | D | Q | A | P | S | Y | G | P | I | N | A | M | V | S | S | I | Q | A | N | E | V |
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  T | V | F | S | A | D | K | D | I | N | Y | E | T | M | F | N | L | P | S | K | D | P | P | V | I | G | P | T | P | N | L | I | G | C | L | E | A | M | E | A |
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UniRef90_W5NAP2	V G S P K A T T A A A F I N A R C P K T T V T A H V G K V Q E K D G D F Y A Q			
UniRef90_F0Y4F6	V Q K P K S L T A A D A I K R M N P D V K V T A Y E L R V E K V F S E S F G K			
UniRef90_A1BXJ3	V G K Y K A E V A A R F V V E Q R V V R G V S I T A H N A R I Q D F D A A F Y Q Q			
UniRef90_G3J8P3	L G H E K I E V M A E R C R S I N P R I K I N L I D D Y L T P E N V K E I L H R			
UniRef90_N9CTJ3	V G S K R D V V S I N K L K E L N A Y V P V D A L E N I D S D F E N L K Q F Q			
UniRef90_G8BUQ5	A G M T K T A A A T Q T L V E I N P A V S F E E F A M D I T T P A N F E H L L D			
UniRef90_A0A024UXV7	I G K N R A L A C V L K L Q E L N N A V L V I S T L T G T L L A K E Q L S N F Q			
UniRef90_M0RFS3	I G R P K S E A A A E A V V K E M N P F M N I L A Q Q N R V C E V Y T H S F Y T G			
UniRef90_E7EFY3	L G S F K S Q A A P R A V C E M N P E T Y Q D A V G D R T E N F G D D F F D N			
UniRef90_F4RE02	I G R P K A D V A A E F I N S R I A G C N V T P H F R K I Q D Y D T G F Y K N F			
UniRef90_A7S3Z1	L G C N R A K A S F E R L A E L N D S V V C K L N T E P L T E D F V K Q			
UniRef90_F1KSG5	I G K P R D H S T Q P R L A E L N S Y V P V R V L G K E L T K D V L K S Q			
UniRef90_E3KBL0	I G K S K I E V M A E R V T L I N P D C K V N L L I D D F I D S D N Q A Q Y L N Q			
UniRef90_C9P6G9	I G Q P K A E V V A A K F I M A R V P Q V K V T P H Y C K I Q D K D D A F Y M M			
UniRef90_E3JQC3	V G R P K A Q V A A E A L V M A R V P Q V K V T P H Y C K I Q D K D D A F Y R Q			
UniRef90_UP1000185E315	V G K N R L D A T K T R I Q E F N P R V N L S F D K A N I E D M D A S Y F K K			
UniRef90_G0V9C6	I G N A K V A V A E R L I H S L R P D A A V R S L L A D V V D E A A A K E L T S			
UniRef90_UP100037A6149	I G A N R A Q A A Q E R I Q L L R P V Q I S I L H D M S L L S D E H F Y S R			
UniRef90_G7E8M5	V G M S K S Q S V A K E S V E K F Q T G I G N I E A Y T G N I E E R F G L D F F K K			
UniRef90_K8EX04	V G K S R L D A V G S K I K D L N P K V T L E F D N G V V E C K N K E Y F S Q			
UniRef90_G0WGJ9	C G M T K T D A A V Q T L L A E I N P D V I L E S Y T Q N I T T V D G F K K F T D			
UniRef90_A9RCQ0	I G L N K T D A L E D Y L T I N S K V K V E K I N N I L T P E N D I S S N L L D			
UniRef90_A8MGD8	I G R Q K V E L L G E R L C Q I L N P K I E L T L L P I F I K D E A I P E L L D K			
UniRef90_F3ZRW4	V G Q F K S D T A A A A V M E M N P D L K G K I V T Y Q N E D V Y D A A F F A Q			
UniRef90_M5E7Y7	V G K P R A A V S Q A K L A E L N S Y V P I D V L D S L Q D Q E Q L L K K			
UniRef90_C5DC89	V E K A K S S T A A A N A R V M N P S I L K I D A R E D R V G P F T D Q F F E G			
UniRef90_UP1000359614B	V G L G K A R V L A D R L L E I N P L L D I E V I E T K L T P E N I D G V L E G			
UniRef90_R5EF14	V G K S I A S A C L H N L K D L N R N V D I K V I N N V N E E L V V G			
UniRef90_Q4UF46	V G T P K V H C V A R T L L G Q I A K W V W H V D A H V A W R D D D E G L K L L D G			
UniRef90_UP1000441231F	V G T P K P A S A A H L L G G L I N S A V R V E Q Y P H A T R G F L D K H G A E			
UniRef90_B2PVPL0	V G T P K P A S A A H L L G G L I N S A V R V E Q Y P H A T R G F L D K H G A E			
UniRef90_B9RAD1	N G C A I A E L C C D I K F E N P M V R V V S V E R G D L S G F S E D F F D K			
UniRef90_E0WT62	I G Q A K I A V M E Q R I L A I N P H C Q V K C I D D F I T P E N V V E M L D Q			
UniRef90_B6WUD6	L G Q P K A V A T A R G L H D M A G Y L A L D V R H V E A D E K N L P D M L Q D			
UniRef90_C4R5S2	I G E Q R A F A T S K S L S E L N H Y V P I S I T E L S E S S L K S			
UniRef90_S7ZQQ0	V G K P R A E V T A P R V A E L N S Y V P V K I H E G T N L V G D L E Q L K R			
UniRef90_Q6BJ52	I G K S K A E V A A N F V R S R I N D D T L L N I V P Y F K I Q D K P I E Y Y Q Q			
UniRef90_I2K0U1	I G K S K A E A S L P R L A E L N S Y V P V N V I H K L D E S I I A Q			
UniRef90_FOXFE2	V G Q M K S D T A A K A V Q L M N P D C L R E R V S P E T E E I F G E S F W E G			
UniRef90_E9BGQ9	I G K S K V E E L A R R L R D I N R H C N V V L L D A F I T A E D V E E V L Q R			
UniRef90_R7YQN6	V G R P K A E V A A Q F V E K R V R G V K I T P F C G K I Q D K D E D Y Y M Q			
UniRef90_N6Y8J5	L G Q A K V L A M A E R V A A F S P H C Q V D T I E D F L V P E N A E T L L E G			
UniRef90_C5DZ85	V G R N K S E V A A Q A V V A A M N P D L K I D K V G P E T E S I Y N D Q F W E S			
UniRef90_X1B271	M G E P K A I V A A R K L Q E I N P N I V K G Y H T S L E R L N P A I Y Q A			
UniRef90_M5E943	V G V S R T A E A L Q R Q I R Q L N P H V Q V R G R S D D C I L T D E A L V A L Q			
UniRef90_H1LSX4	I G K Y K V D V A K D R I L S I N P R C K V T T H Q C F Y L P E N A R D F F K E			
UniRef90_R7MDT7	V G K N K T E V L A S K L K G N I V K I N I M D N K E K I L H E V Q E C			
UniRef90_B1L6A2	I G L P K A L V A E R E L R K R N S E I V Y V E G I T E R L T E E N A P R L L S D			
UniRef90_D0N735	V G Q P R A S A V S H K L A E L N K M V S V A V H K G P L T E E V V A K H N V V			
UniRef90_A9V503	V G K L K S E C A T E T A R V M N P N M N I E F M A D R V E H I F H D D F F A G			
UniRef90_W6MJ45	I G V S R A E A T V P K L A E L N S Y V P I S V V H E I S E E I I K R			
UniRef90_C0C4N7	I G M Y T S A L T E E L L M E I N P L L E C P E C V K V T E E N L L S L F A Q			
UniRef90_G2QBP0	V G V N R A A A A S V A L R R L P R V R I H V D T V D V R L K P P S F F A P			
UniRef90_C5MCP7	I D K S K S L T V S K A V V E S F N Y G V K L V P H H G N V M D Q F P I E F W S Q			
UniRef90_UP100045D7F8C	L G K N R A E A S Q E P I A Q L N G A V R V C H M G A I T T E D L L D			
UniRef90_U7Q2C6	V G T N R A V A A S Q V L S S M N P R V N V V A E Q R D V C A Q Q V N Y F A K			
UniRef90_R1BJZ5	V N E S K A K V A K K A V L A F P H S I D A H L G N I K D T E Q F G P D F F K T			
UniRef90_E9CA21	V G Q S K A L V A A E F V N R R V A G C K V T P H F C K I Q D K P E D F Y R Q			
UniRef90_V4BZJ8	I N K N R A E A S S H L S E L N P Y V S I K T L T Q K L D E K T D L S Y L K Q			
UniRef90_UP100047DFC79	F G H G K I D V M A A R A K G I N P R I R L N L V D D F L T P D N L K T L I E Q			
UniRef90_UP1000469C86D	V G K T K V E A A A A E T L R G L N T D C T I E T L E A Q L P D V N A L A L V S Q			
UniRef90_UP100020353AB	N Q R N R A E A T L H H I A E L N P Y V H V A A S T V P L D E S T D L S F L K Q			
UniRef90_F9XJ26	V G K A R A D V T V P R V A E L N P Y T P V K I H P S K D L T S D L Q S L K Q			
UniRef90_G6DQB8	I G L S S K A K V C A V E F V N K R V P G C E A V A H H C S I Q D M D E G F Y R Q			
UniRef90_L2GSK6	V G K F K T D I T K T Q Y Y E Q M V R D A R V I S Y N E I I N E R F D L K F F E T			
UniRef90_Q6C6V1	V G K R R D Q V S Q P R L A E L N S Y V P V H V L E A K D L S E E E V A R			
UniRef90_UP10004725948	L G N H K V I E A E K R V V K E I N P G V R F L P I R Q K A C L E N L P D F L G E D			
UniRef90_A3SYA9	I G T P K A T A A A R A L S A R N S A C T V V A H P V T L G P D T V A K L C H D			
UniRef90_W4Y229	L G K N R A T A S V Q R A Q N I N P N V V V T S D E G N V C D K P Q E F F K Q			
UniRef90_R6Q397	V G M Y K T D A L K E Q L L Q I N P Y L D I T T D C V K V T S E N L K T L F A D			
UniRef90_X8K469	I G E N K V D V A E A R A K D I N P E I I V N K H N V F Y L P D S D Y E F F A S			
UniRef90_Q54WI4	V G K V I S T E S V F V A I S E L N P L V T I D V Y D K E I E T M D D Q F I K N			
UniRef90_W7Y753	V G Q K K A D L M V E R V K L I N P D C E A I A L N M F Y T D E T Y E E L F Y D			
UniRef90_UP1000466150D	I G A S K N Q V V S D R L K A I N P M E T V H S E E T F L T S D N I E Q L I N D Q			
UniRef90_R7GIR4	V G K K K V D I I K E R M L D I N P N L N I N T F D T F Y L P E N A D T I L S Q			
UniRef90_A0A024TML4	V G Q P K S S T A A T A I R F I N P N V H I Q A Y V T R V I E T F D D A F Y D S			
UniRef90_R6WX39	V G E V K V D A L R R H L L E I S P D A D I L A L Q K I Y S A D T A D D F L D T			
UniRef90_UP1000464DB04	Y G K A K V D A M A E R I A L D P D A C T V R T L E D F A E P D N E D A V L G G			
UniRef90_UP1000411E90C	V G M P K A Q A L S D N L K E I N P Y I T I E T H N T K V T E E N V I E L T K D			
UniRef90_UP10003F1782D	I Q K P K S Y T A A D A T L K I N P Q I K I D A H L N K V C P I Y N D E F F T K			
UniRef90_Q7VKW8	V A Q L K T E V M K Q R V L G I N P E C V V D I I D F I T P E N I P D Y L D R			
UniRef90_D3T738	V G E E K V S A L K D I L S K I N P S V N V K A K N I K I D E S N L D E L L I L Q			
UniRef90_A0A044V9F4	I G Q P R A K V A L R L L M E L I N P S V E F D L G S P E D I T K D M D F L R Q			
UniRef90_D3QCD0	I G Q S K V T L M E E R I K L I N P D C K V T P L H M F Y T E E T Y E D L F N N			
UniRef90_E9AMA1	V G N S K A D T A R A V L W D W F P P C V V A Y H D N V K A D H Y D D A F Y R Q			
UniRef90_J2L154	L G K A K V T A L R H E R I A Q I N P C E V T E V E D F L T P D N V G E M I G R			
UniRef90_G7DSV0	T C Q T K V E S A I E A I G R I N S D V D C R G V A M H F S P P N A P I D F A S			

UniRef90\_W4Z9U6  
 UniRef90\_A0A023B9A9  
 UniRef90\_C6WZL3  
 UniRef90\_UP10003C1411E  
 UniRef90\_L1IE57  
 UniRef90\_W5NAP2  
 UniRef90\_F0Y4F6  
 UniRef90\_A1BXJ3  
 UniRef90\_G3J8P3  
 UniRef90\_N9CTJ3  
 UniRef90\_G8BUQ5  
 UniRef90\_A0A024UXV7  
 UniRef90\_M0RFS3  
 UniRef90\_E7EFY3  
 UniRef90\_F4RE02  
 UniRef90\_A7S3Z1  
 UniRef90\_F1KSG5  
 UniRef90\_E3KBL0  
 UniRef90\_C9P6G9  
 UniRef90\_E3JQC3  
 UniRef90\_UP1000185E315  
 UniRef90\_G0V9C6  
 UniRef90\_UP100037A6149  
 UniRef90\_G7E8M5  
 UniRef90\_K8EX04  
 UniRef90\_G0WGJ9  
 UniRef90\_A9RCQ0  
 UniRef90\_A8MGD8  
 UniRef90\_F3ZRW4  
 UniRef90\_M5E7Y7  
 UniRef90\_C5DC89  
 UniRef90\_UP1000359614B  
 UniRef90\_R5EF14  
 UniRef90\_Q4UF46  
 UniRef90\_UP1000441231F  
 UniRef90\_U2PVLO  
 UniRef90\_B9RAD1  
 UniRef90\_E0WT62  
 UniRef90\_B6WUD6  
 UniRef90\_C4R5S2  
 UniRef90\_S7ZQ00  
 UniRef90\_Q6BJ52  
 UniRef90\_I2K0U1  
 UniRef90\_FOXFE2  
 UniRef90\_E9BGQ9  
 UniRef90\_R7YQN6  
 UniRef90\_N6Y8J5  
 UniRef90\_C5DZ85  
 UniRef90\_X1B271  
 UniRef90\_M5E943  
 UniRef90\_H1LSX4  
 UniRef90\_R7MDT7  
 UniRef90\_B1L6A2  
 UniRef90\_D0N735  
 UniRef90\_A9V503  
 UniRef90\_W6MJ45  
 UniRef90\_C0C4N7  
 UniRef90\_G2QBP0  
 UniRef90\_C5MCP7  
 UniRef90\_UP100045D7F8C  
 UniRef90\_U7Q2C6  
 UniRef90\_R1BJZ5  
 UniRef90\_E9CA21  
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 UniRef90\_UP100020353AB  
 UniRef90\_F9XJ26  
 UniRef90\_G6DQB8  
 UniRef90\_L2GSK6  
 UniRef90\_Q6C6V1  
 UniRef90\_UP10004725948  
 UniRef90\_A3SYA9  
 UniRef90\_W4Y229  
 UniRef90\_R6Q397  
 UniRef90\_X8K469  
 UniRef90\_Q54WI4  
 UniRef90\_W7Y753  
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 UniRef90\_R7GIR4  
 UniRef90\_A0A024TML4  
 UniRef90\_R6WX39  
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 UniRef90\_UP1000411E90C  
 UniRef90\_UP10003F1782D  
 UniRef90\_Q7VWK8  
 UniRef90\_D3T738  
 UniRef90\_A0A044V9F4  
 UniRef90\_D3QCD0  
 UniRef90\_E9AMA1  
 UniRef90\_J2LI54  
 UniRef90\_G7DSV0

130            140            150            160

This figure displays a sequence alignment of numerous proteins, likely from UniProt, focusing on four specific positions (130, 140, 150, 160) across the top row. The alignment is color-coded, with each column having a unique color scheme. The highlighted positions show a strong conservation of specific amino acids (e.g., Cysteine at position 130 in many entries). The bottom section of the diagram shows the full sequence alignment for these positions across all entries.

UniRef90\_W4Z9U6  
 UniRef90\_A0A023B9A9  
 UniRef90\_C6WZL3  
 UniRef90\_UP10003C1411E  
 UniRef90\_L1IE57  
 UniRef90\_W5NAP2  
 UniRef90\_F0Y4F6  
 UniRef90\_A1BXJ3  
 UniRef90\_G3J8P3  
 UniRef90\_N9CTJ3  
 UniRef90\_G8BUQ5  
 UniRef90\_A0A024UXV7  
 UniRef90\_M0RFS3  
 UniRef90\_E7EFY3  
 UniRef90\_F4RE02  
 UniRef90\_A7S3Z1  
 UniRef90\_F1KSG5  
 UniRef90\_E3KBL0  
 UniRef90\_C9P6G9  
 UniRef90\_E3JQC3  
 UniRef90\_UP1000185E315  
 UniRef90\_G0V9C6  
 UniRef90\_UP100037A6149  
 UniRef90\_G7E8M5  
 UniRef90\_K8EX04  
 UniRef90\_G0WGJ9  
 UniRef90\_A9RCQ0  
 UniRef90\_A8MGD8  
 UniRef90\_F3ZRW4  
 UniRef90\_M5E7Y7  
 UniRef90\_C5DC89  
 UniRef90\_UP1000359614B  
 UniRef90\_R5EF14  
 UniRef90\_Q4UF46  
 UniRef90\_UP1000441231F  
 UniRef90\_U2PVLO  
 UniRef90\_B9RAD1  
 UniRef90\_E0WT62  
 UniRef90\_B6WUD6  
 UniRef90\_C4R5S2  
 UniRef90\_S7ZQQ0  
 UniRef90\_Q6BJ52  
 UniRef90\_I2K0U1  
 UniRef90\_FOXFE2  
 UniRef90\_E9BGQ9  
 UniRef90\_R7YQN6  
 UniRef90\_N6Y8J5  
 UniRef90\_C5DZ85  
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 UniRef90\_E9CA21  
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 UniRef90\_UP100020353AB  
 UniRef90\_F9XJ26  
 UniRef90\_G6DQB8  
 UniRef90\_L2GSK6  
 UniRef90\_Q6C6V1  
 UniRef90\_UP10004725948  
 UniRef90\_A3SYA9  
 UniRef90\_W4Y229  
 UniRef90\_R6Q397  
 UniRef90\_X8K469  
 UniRef90\_Q54WI4  
 UniRef90\_W7Y753  
 UniRef90\_UP1000466150D  
 UniRef90\_R7GIR4  
 UniRef90\_A0A024TML4  
 UniRef90\_R6WX39  
 UniRef90\_UP1000464DB04  
 UniRef90\_UP1000411E90C  
 UniRef90\_UP10003F1782D  
 UniRef90\_Q7VKW8  
 UniRef90\_D3T738  
 UniRef90\_A0A044V9F4  
 UniRef90\_D3QCD0  
 UniRef90\_E9AMA1  
 UniRef90\_J2L154  
 UniRef90\_G7DSV0

170                    180                    190                    200

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

R | V | I | L | P | T | I | T | S | C | Y | E | C | S | L | D | M | L | T | P | Q | T | V | F | P | I | C | T | I | A | N | T | P | R | L | P | E | H | C  
 R | C | I | F | P | F | V | T | S | C | F | E | C | S | L | Q | S | F | P | P | Q |  
 F | V |  
 K | W | C | L | G | Q | L | D | A | R | Q | V | R | E | E | M | M | T | P | E | Q | E | K | A | D | P | Y | F | L | G | R | P | G | V | V | Q | A | A | V | T  
 F | C |  
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 F | V |  
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UniRef90_B7XHR1	I I G K P K S E C A A K N S I V I N P D F M T H P I K E E T E T F S D V F I E N E			
UniRef90_T4VXN8	V G K Y K V D V M K D R I L D I N P N I D K A I R A K Y A A E N S E E I L C E			
UniRef90_Q7SXP2	I I G K N R A Q A A T E L L Q E L N S D V S G N F V E E S P D K D N D C E F F H R			
UniRef90_A0CM8	L L R K P K S Q T A A A A V I Q M N P Y L R D H I I H D S T E H Y T D Q F F E D			
UniRef90_A0A024J809	V G K Q K S E V A A V A A V A I N P N T K Q D K V G P E T E N I F N D D F W N N			
UniRef90_A2G060	I I G K M K S T A A G E A A K V M N K D I K I E A H T N R V I E N Y N D D F F T Q			
UniRef90_F8CQB2	V G K P K A E L M A Q R C Q D I N P A A K V E A V R E F Y R A D V A E Q M L Q Q			
UniRef90_H9JFP5	K G L N R G S E A L R L V L E L N P A V V Q G H A V Q E P P D Q L D E D F F K S E			
UniRef90_B6ACX4	K G D T R S G A C I K K L E C L N D Y V S I S V Y N G T I T E E I I L E			
UniRef90_W4GAU9	V A T Q T G R A E A T W L A E I N P Y V Q V K Q H T G K L T A D F I A Q			
UniRef90_K8E060	I I G R Y K V D L M A A R V Q L I N P Q A T V I P L R Q F Y T P E A G E G L I S R			
UniRef90_Q99344	I I G K P K A Q V A A Q Y V V N T R F P Q L E V V V A H V Q D L T T P P S F Y K D			
UniRef90_K4BEU5	I I R G K S V A E L C C D S L K D F N P M V S V S V E K G A L L F D A D F F Q K			
UniRef90_J7RRP7	L L G K F K T E A L K E Q I S E I N P Y I V S E I C T L K I D E D N L E S L F K D			
UniRef90_C4R3H0	L L G S N K A A A V V R N L N E L N P D V E G T A L D I S L T N N L V E D F W S Q			
UniRef90_Q23QY3	I I G K T R A E A S L P Q L K E L L N P Y C K V S V H T G Q I T K E L L A D F D V			
UniRef90_M5EK44	I I G T P Y A E A L A Q G L A E L N P A T C L R A P D E L L R E D P A Y F L Q Y S			
UniRef90_W5JM98	I A G L S K V E V A A A A K T L S F I N P D V T I A T H N Y N I T T V D N F S Q F M E			
UniRef90UPI00042B71CA	Q G K T L A E V C C D S L K E F N P M V R V S V E K G D I S T F G V E F F E K			
UniRef90_C3WF88	I I G K L K T S V M K E R L L N I N P N L I V H E Y P C K F S K D N I D I F F K D			
UniRef90_T0QPBP9	V G L S K A A V L K K H L H E I V P Q C E V E A V P L M F E A D V A D E L L A G			
UniRef90_D0NH4	V G Q S R A N T V A K I L L E M N A D V A G D G R H A N V K Q S E P E Y L D Q			
UniRef90_T0KZ65	V G K M K A E V A V K K V L N L N E D F S N D R S I S N D F I D I D A T			
UniRef90_A7TL43	I I G K P K A I V A K S Y F D N H F P D L D I N I I A H N E D I F N L M D F I Q S			
UniRef90_R8AN67	V G S A K I E V M A E R I R A I I N P D C A V H L I D D F I T P D N Q A E Y L R G			
UniRef90_G9KW60	I I G R P K A E V A A E A T A R R L N S H L Q V T P L T H P L D P T T E H I Y E D N			
UniRef90UPI0003B67D01	L L G E Y K T L S L S K T L S K I Y P Y I D V K I D T V K I T K D N I A E L L K D			
UniRef90_F2UHA7	V T K L K S D V A A A A A K A M N P E L N V V A H A N K V G P D Y N D E F F E S			
UniRef90_C8XOS4	I I G R P K V E V A V A H T L L R L D P E L E I R T V T E P L V P D T A R E V F Q G			
UniRef90UPI0004075425	V G K Y K V D V M K E R I L E I N P K C E V N I Y K T F F L P N N S V E V F S Q			
UniRef90_Q13564	I I G K N R A E A A M E F L Q E N S D V F V E E S P E N L L D N D P S F F C R			
UniRef90_U5HBQ2	V G S F K S E A G R R A V T E M N I E V F K L A V G G E T E G T F G D D F F D G			
UniRef90_U2FIE3	V G K Y K V D V M K E R I L E I N P K C T V N I Y K T F F L P N N S V E V F S Q			
UniRef90_D2RB11	I I G Q H K V Y A T K A R L N E T L P V Y V E V A F V Q K V T P E S L D E I A E R			
UniRef90_S9UFM0	I I G K S K S L V A G N A A T S I N P A M R V T A F D Q K M A P T F N E T F W N S			
UniRef90UPI0002247E15	I I G T S K S E T A A K F I N D R I P G I I C G L D S I I A R			
UniRef90UPI0002556AB7	V G K P K V E V M A E R L R A I N P A C S V H A V A D F V T R D T M A E Y I T E			
UniRef90_Q1H2K5	F G L A K V T A M A Q R V R E I N P L A E V R E V E D F I A S D N L D V L L D S			
UniRef90_G3UEF4	A G L S K V Q Q A A E H T L R N I P D V L F E V H N Y N I T T V E N F Q H F M			
UniRef90_R8VZ79	L L G K P K T Q A A Q Q L A D V N P Y L T I T T D C V R V I T A D N A A A L F A D			

130            140            150            160

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

170                    180                    190                    200

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

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

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

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

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

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

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

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

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

T Q F K V T D V F K T K V C  
F A D L V H H

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

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

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

R I Q I R E H  
F V  
F C

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

F V  
H V

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

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

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

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

	210	220	230	240
UniRef90_R5K2E7				
UniRef90_U2S4Q3				
UniRef90_Q09765	V E W A Y [L L] E W P			
UniRef90_Q6BXH3	A K E F [L F H]			
UniRef90_K4KM83				
UniRef90_L2GLA2				
UniRef90_G4TP88				
UniRef90_G7KEA9	A R			
UniRef90_G4TTG8				
UniRef90_G8JQ54				
UniRef90_F0R5V3				
UniRef90_C8NBY4				
UniRef90_D1TR50				
UniRef90_C1EAD2				
UniRef90_UP100036CA6D0				
UniRef90_L1JXU7				
UniRef90_R7UM57	[L] K Y [L L] K F G E [V] T		Y Y [L G Y N A [L Q D F F P T M T M K P N E Q C	
UniRef90_D3R0X3				
UniRef90_K3ZQ99				
UniRef90_V9F9F3				
UniRef90_M5WBA2				
UniRef90_Q5BSL9				
UniRef90_A5EVW9				
UniRef90_B9FV11				
UniRef90_R6XJL6				
UniRef90_E4KYN2				
UniRef90_T0S9G5				
UniRef90_G8UJW1				
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 V G G I A A E A L | A R S G V | G R I I | L I D K D | V V D I | T N I N R Q | I H A L T T T  
 V G G V H L L T | L A R L G | I G A F H | A D F D T | F D I A N F | N R Q A G A M V S T  
 T G C E V L K N L | I L P G | G K Y T I | I D D R I | V T H E H | L S S N F F | L K L K D  
 L G Q E L A K N V | C L A G I | R Y V S | Y D K G A V T | P R S M C | S G Y Y F S R D N  
 V G G F A A E A L | A R A G V | G H L T L | V D K D S | V D V T N I N R Q | I I A L H S T  
 V G G V H L L T | L A R F G | V G A F T I | A D Y D R F D | L A N L N R Q A G A L M S T  
 I G C E L L K N L | A L A G F | Q H I E V | I D L D T | I E V T N L N R Q F | L F Q K Q H  
 L G S N I A E C I | L R L G | F E M T | V D G D S | V E L S | N L N R Q N Y | L N E D I  
 L G G H V L E S | S A R A G V | G R I | R A A D | G D V F E | P S N L N R Q | L L A T T A T  
 C E L L K N L | A L T G | F S K I | E I I D | L D T | D V S | N L N R Q F | L F R R E H  
 T G S S V A V Q L | A R I | G V G K | L I L V D | K D S | M D K | T N L L T R V Y G S T F G D  
 V G V E I A K N | A L A G V | V K R | L I L D D | S T | C T | T N D L A T Q F Y | I R P E N  
 V G S V T A E M | L T R C | G | G K | L I L F D Y | D K V | E L A N M | R L F F Q P H Q  
 L S S Q I L K N | L V L P | G | L G T | F T | I C D | D A R | V S | Q S D V A S N F F | L S Q E S  
 L G L E I A K N | V L A G | G I | K A L | T I | H D | T K K | C Q | A W D | L G T N F F | L C E D D  
 L G C E F L K N | F A L | M G K | G E | L T I | I D D Y | V I | E K S | N L S R Q F | L F R D W N  
 L G S I I A E H | V H S | G F M | H | L D | I D H | D V L | E I T N | N R G A Y Y | R D A K  
 I G S N I A E T | I L R | G | F E H | I T | V D G | D V | V E E S | N L N R Q | N Y K Q T D  
 L G V E V A K N | V V L | G G | V K S | V T | Q D | T E N | A G | W G | D | L S S Q F F | L Q E S D  
 V G S H H C I D | A L A R S | G | I G K | L V L | I D N | D K V | S | L T N | I N R Q | C V | A Y H H T  
 V G S H H A A E L | A R C | G | V G R | L | V D N | D T V | S | L T N | I N R Q S | I A L H S T  
 C G S Y V F Y T | L S A M | G V G | H | I K | S Y | D | F D | I V | E E S | N L S R Q | I L Y N Y N D  
 L G C E L L K N L | A L M | G M V | G L | V T | V T | D D | D T | I E R | S | N L S R Q F | L F R D W D  
 V G S Y A V E A | L A R A G V | G T | L I L V | D Y | G E | V | S A K | K | L N R Q | I V A L R S T

V G T W V A E A L | A R S G | I G Q I | T | L | I | D | L | D | D | C | V | T | N | T | N | R | Q | I | H | A L T | S T  
 V G I E I A K N | L I L S | G | P | S | V | V | C | L | H | D | D | G | L | S | Q | L | T | D | M | S | C | N | F | Y | L | Q | K | N | H  
 L G Q E I A K N | I C L A G | I N E L | H | I | L | D | N | E | C | I | K | E | D | I | C | T | S | F | F | K | K | E | D  
 L G C E L L K N | K A V | L | V | L | S | G | F | L | K | H | I | D | M | D | T | I | D | V | S | N | L | N | R | Q | F | L | F | R | E | R | D  
 V G S E H I V | T | L | A R | L | G | V | G | F | N | I | S | D | F | D | E | Y | E | V | H | N | F | N | R | Q | A | G | F | M | S | T  
 L G I E I A K N | V L A G | V | K | A | V | T | L | H | D | T | K | R | C | E | T | W | D | L | G | S | N | F | F | S | T | Q | K | R  
 V G G Y V V E | V | L | A R | S | G | V | G | N | I | D | V | D | D | H | V | G | L | S | N | I | N | R | Q | I | I | A | T | H | S | T  
 V G G A A V E | S | L | V | R | A | G | V | G | N | L | S | I | V | F | D | F | D | V | V | D | K | T | N | L | N | R | Q | I | I | T | T | Q | S | S  
 L G A E V A K | N | L | I | L | A | G | V | K | G | L | T | M | M | D | H | Q | K | V | S | P | E | D | T | S | A | Q | F | L | P | T | T | G | S  
 V G L E C A K | N | L | I | L | S | G | P | K | S | V | C | Y | D | N | D | I | C | Q | V | S | D | I | G | V | N | F | Y | I | D | E | E | D  
 L G A T V | Q | L | M | A | R | A | G | V | G | M | L | Y | L | A | D | H | G | V | V | D | W | P | D | L | N | R | Q | L | L | Y | D | E | G | D  
 L G C E Y A K | M | C | S | V | R | E | S | G | K | L | T | I | T | D | N | D | N | I | E | V | S | N | L | N | R | Q | F | L | F | R | R | E | N | 2  
 L G C T A A L | S | L | V | M | S | G | V | G | R | L | H | C | V | P | D | V | V | E | L | S | N | L | G | R | Q | I | L | Y | A | E | Q | H  
 M G S N I A E | I | F | A | R | L | G | V | G | H | F | N | L | A | D | N | D | V | I | E | V | S | N | I | N | R | Q | V | I | A | S | I | A | S  
 T A A Q T | L | K | N | L | V | L | P | G | I | G | K | F | T | L | L | D | P | T | K | V | Q | G | S | S | I | G | N | N | F | F | L | D | P | T | S  
 L G V E V A K | N | V | I | L | A | G | V | N | S | L | T | L | L | D | E | K | I | C | Q | E | I | D | L | G | T | Q | F | F | L | T | Q | Q | D

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

	90	100	110	120
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UniRef90_F8A9N0	L G R P K G E V M L E E A F R L N P F L Q I E Y Y K E G I T P E N I D A F L D G			
UniRef90_M1VBY6	I G R S K S L A A R D A A L R L N P E L N V R A L E M R V G P D F S D D F W E P			
UniRef90_Q5GF34	I H R K K A E V A A E A T R R L N A D L Q V T P L N L Q L D P F G D D F F S G			
UniRef90_R1AY94	I N K A K I Q A C S D Y L K K I D S T V S V E T V H C K I T G P A D I E A N I D			
UniRef90_C5FH77	V G T P K V N C I E R R L Q Q A P W V R F D C R N Q L Y S E A A A D K L L R K			
UniRef90_A4BFV3	V G Q N K A E V A A E R I W Q N P E A Q E I V N Q P V S R D N A S D F V A G			
UniRef90_R6XFU8	I S K S K V D V A E Q K L K E I D P L I Q I K K Y P L L L N E D N V K N L G H			
UniRef90_X8K5M7	L G E L K T E A L K E I L L E I N P Y I N V S F E S I E V N N D N V K T L F D G			
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UniRef90_Q2RHW2	L G Q P K V A V L A A R C R D I N P E A T I P R Q E A Y S P A T S L K F V P D			
UniRef90_M4C0D9	I G M S R S E T V A K N V L E L N S D V A G G A R H V N V E H E T E P Q F L N P			
UniRef90_P0DI12	V G K T V A E I C C D S L K D F N P M V H V S I E K G D L S T L G V D F F E K			
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UniRef90_A0A031GV10	L G Q P K V A V L A Q M A R D I N P E L D I K Q F P D G I H D S N L A E F F F A G			
UniRef90_H8XOL7	S G K K L A H C V K T N T L N E L N A D V E I E K S S L E Q I L E Y D I E C K F W D			
UniRef90_L2GM29	L G Q Q R D S A V L E Q L R N K Y V E I K V A E N I Q L E D			
UniRef90_W8U779	V G K N K V E V M R E R I A D I S P I T R V D A F A A R Y D S D T S E A I L S G G			
UniRef90_C4ZJJ6	L G Q P K A E V L A R M V R D I N P E V D L R C F D D G V D P A R A D V F L E G			
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UniRef90_UP10003B3453	V G R G K A D A A R E R C K L V N P A V R F A T T S D F L I D G F G M S E M V R G			
UniRef90_J9F3V1	V G K S K A I I A A E A I R S I A P N V E I V C Y H D V L K E E Y G M E F F Q K			
UniRef90_T0Y3B1	V G L P K V D V V R K H I K S F S K K T K V E V L Q R D V S K D D V I P K L I E			
UniRef90_U6IA85	R G D T R A K A S L P H I S A L N P Y V R V V L D C P L T E S N V D K F P D N			
UniRef90_B7Q170	A G M S K V E A A A K T L E F F I N P D V T F E T Y N Y N I T T V E N F Q H F M D			
UniRef90_A8PWU3	V G Q F Y A N E L A H F V S E L N P A T T A H A C T P S W L P G Q E P A F F T A			
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UniRef90_M8BGW3	I G Q A K S T V S A T A A S A I N S S L H I D A L Q N R A C P E T N D A F L E G			
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UniRef90_R9K3Q8	V G Q Y K T K V M E E Q I R A C P E T R V R T Y E R F I I L K E D L S G L F K K			
UniRef90_R5EWU9	M G Q F K T R V T M K D K I A D C P G T Q V I T F E E F V L P D N I E S S L F E G			
UniRef90_J0Q0K9	L G K K K V D V V R D K A P Y S P S T Q Y A F Y D E K I I D S L K A C R L F E G			
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UniRef90_U5ZGY0				
UniRef90_Q088F0	I G Q S K V E V M A K R I G E I N P E C M V N E I E D F I T L D N L A E H F K N			
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UniRef90_E1KNT0	L G E A K V D V A E R R I K D I N P A C N V T K F E T F Y L L P E S A D I F F T Q			
UniRef90_D4CYM2	I G K A K I L E V A K E R I L A I N P E I N L T V Y H E K K F L K E N I D L F F K D			
UniRef90_G3VJ31	S G R N R A E A S L E R A Q N L N P M V W D V K V D T D N V E D K P E T F F T Q			
UniRef90_W7ABP9	V K N K V T R S D A K Q L Q E L N S Y V H I Y N Y K G E L L D E P F L Q S F D V V			
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UniRef90_W5WWX9	V G E K K L D T S V K E I I N I D P S I T L N K F P E G I I N A K N A E A F V E N			
UniRef90_U5H2M1	L G K N K A E Q V T Q F L L E M N N D V K G E A I V Q D L L S S V T S P E A L E K			
UniRef90_T2MK75	V N N S R A S A C R S R L L A E I P H V S V Q I K D D I L S N L P S L K S E			
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UniRef90_A1ZN49	V G K P K V D A I T Q R L Q A I N P D V K I E Y H Q V F L D E G N M N S F V D E			
UniRef90_D3TMM5	A G L S K V E A A A R T L S F I N P D V R I E T H N Y N I T T V E S F D Q P			
UniRef90_UP100035D6DEB	F G K A K V L A L A E R L H I N P D C T V H A V E D F V V E D S L E A H L R G			
UniRef90_A4A577	V D Q T K V E V M E K L L S I N P E A D I R N F D G R V T Q E N A A E L F R T			
UniRef90_R6RMA9	I G M K K T E A M S E L I R Q V N P W I E L E F F D G R V T Q E N A A E L F R T			
UniRef90_Q22N18	L R K P K S S T A A Q A A I K M N N K L K N H I V A C L D K V C E A A E E F F E D			
UniRef90_D4MTH8	I G K F K T V M E N I I H E I C P D T E V I T I E A F V L P E N L E E L L C G			
UniRef90_N1J7Z6	V G T P K V V C L K K R L Q Q I A P W V Q F D L R N E L Y R H E S S D K L L H H			
UniRef90_C5DBA0	I G T K R L D S A I S R I Q D M N P R V T L T V D T E D F R Q K P D S F Y G Q			
UniRef90_M1WLL4	I G Q L K V M A L S K N M L A V N P D D L L D V V R T L T L A P D N M E S A F M D			
UniRef90_A0Q3Q5	I G K S K V E V M E D R I K D I N P E C N V T S H K V F I V N Q D N L G E L I D D			
UniRef90_C3YBQ2	I R Q P K S T A A A S A L E I N P D L H I D P H Q H K V C P D Y N D T F F E S			
UniRef90_I6UBF5	I G K N K A A V A A R I F K K I N K T S N V L S M C A D I T K F D V L F F A G			
UniRef90_R9SIZ3	L R Q D K A K V A A E E K I R L I N P Y I E V E P V V C E I N E D N V E G I L E D E			
UniRef90_T1DRE7	I G R P K T E V L A E R E K I R L I N P D I E L Y V H M F V K D E A M E S L L D E			
UniRef90_J9B7Z2	V G S K K S E V A V K A V R D F N L D I K I D A L S E R V V G A E			
UniRef90_R6EZI2	V G R P K T E V A E E R L R D I N P G M E I K V R Q Q F Y L P E K G T E F F G E			
UniRef90_J3KA89	C G K S K A M A A V D R L T K I F P G V N A E G Y N M S I P M P G H P V N F S Q			
UniRef90_V9DR52	A G L S K V R S A A A R C K A L N S E I S Y V C H D K Q A T G A N I L A T V A Q			
UniRef90_H1Z852	I G E P K V H I V G N R L M D I N P E L N L T R I E E F L S P E R T H E V V T E			
UniRef90_H1SFE1	Y G R A K V Q A M A E R M V Q I N P R C R V T E V D D F V T P E N L V A L L D G			
UniRef90_UP100037A4F23	L G M A K V D A I A Q R I A L I N P E S S V A C V E D F L T P D N A G D L L S K			
UniRef90_U6IP64	A G L S K V E A A A E T L Q S I N P D V S I E P H V N Y D I T L V E N F D S F K P			
UniRef90_U9Q701	V G K A K V E V M A A R I R A I N P A C R V H A V A D F V T R E T M A E Y I V D			
UniRef90_I2KA63	E A V G M K V D R L K D I Y P G I K T L H Q H M T V A W V Q E F D F E P			
UniRef90_F0GVA5	L G K S K V L Q T K K K I H E T I P Y S K I Y A N E V Y V S L D N L D E I S E K			
UniRef90_E3H9H9	L G F F K V E E A L K S K R I K S I N S D I K T K G F N V K V D E E N I D N L L T D			
UniRef90_UP100006CF8CB	V D K S K V E V L S K N I L R L I N P Q T K I R C T Q K L A D N D L G D D Y W K N			
UniRef90_R5PY10	L G E Y K V D V A R R R L L D I N P E C D V N A I R M F Y L P E E A D N I L S E			
UniRef90_W6LTB2	L G Q S K V S V M A A R L R D I D P T L E L T L G D F L Q A S G A E A L I T R			
UniRef90_S4W4J7	V D R R K I D V V A E R A R A V N P D A D L T L L A H R I T T P D F D M G A L H E			
UniRef90_W1WZ82	V G Q P K V D V A L Q D I L T E I N P N V T V V T Y R E A L T K D S I P V I Y D A			
UniRef90_R5MBF7	L E Q N K T D V A K R R M L S I N P T G N Y U T Y N V F L N Q D N L E E Y I K D			
UniRef90_C4YR47	L N E D L A V A I Q K N L N E L N N D V N G H A I V E S L S T I L A Q E L F W D			

130            140            150            160

UniRef90_D3SFC2	A D F V L D A I D S I A C K A A L V A G A Q R R G Q A V I S S M G A G G R I D P
UniRef90_Q4E0G2	F H A V I L A V D S V A A R R W I N Q K I A E I A L W E I T A G P L G F S A S L
UniRef90_F8A9N0	V D V V L D G V E F F E A R K L L Y D T A R A K K I P L I T
UniRef90_M1VBY6	L D G V C T A L D N V D A R L Y I D Q R C V Y Y L K P L L D S G T L G T K G S T
UniRef90_Q5GF34	V N G V A A A L D T F E A R D Y V A A R C T H F L K P L L E A G T M G T R G S A
UniRef90_R1AY94	A E T D L S M D Q P A E I D S W F D E V S N K T K K A V I F S S Y A S T A T N V
UniRef90_C5FH77	P D Y V L D C I D N I S S K V S L L H C H S R G I K V I S S M G A G C K S D P
UniRef90_A4BFV3	A S L V L D G L D F F A A R R A L F K A A S D T G I P A M T A A P L G F S G T L
UniRef90_R6XFU8	F D F I F D C I D D V K A K V A L V K Y A L E N N I D I I M C T G
UniRef90_X8K5M7	F N L V C E A F D N P K S K A M L V S E L L S R D T I I V S G S G M A G Y G D A
UniRef90_H7EMD2	D S I I C E A F D K P D A K A M I A E G C E L P D A V L I S A S G M A G F G E S
UniRef90_UP1000288492B	L D F V I D A S D T I I Y K I H L M K E C L K R N I P I I S S M G A A N K M D P
UniRef90_Q2RHW2	L D F L V I D A I D S V K A K I D L L A T A V T A G R P I V I S S M G A G N R L D P
UniRef90_M4C0D9	F D L V M A T Q L N E R G T L L L A E L C R Q K R R P L I L M T V W G F L G S L
UniRef90_P0DI12	F D V V V I G Y S S R A T K K A V N E K C R N L A K D F Y T V D C R G S C G E I
UniRef90_M8AXP5	F D L I V V S C A S L K T K L F I I N D N C R K R S K H I A F Y S V E C
UniRef90_UP1000478E4F5	P D Y V V D A S D T I I S Y K I H L K Q C L E R G I P I I S S M G A A N K T D P
UniRef90_A0A031GV10	V D L Y V D G L D F F A F
UniRef90_H8XOL7	Q F H C V I V S N Y T P K L K N L I D I L W D K H I P L L V V N T V G F Y G S L
UniRef90_L2GM29	H D I V V S V N Q S L E E N L R L N D L C H L K G I K F V M A N A S G L F T Q L
UniRef90_W8U779	Y D Y V V D A I D M V S S K L D L E K C Y F R D I R I I S S M G M G N K L D P
UniRef90_C4ZJJ6	V D L Y V D A L D F F A F
UniRef90_A9V5E2	F D L V L N A L D N L K A R R H V N R M C L A A N R P L I E S G S A G Y L G Q V
UniRef90_UP1000381BA3D	H S I A V N V D F N S D I P L L F D K K C R E K G I F V I H P Y N L G W G G L V
UniRef90_UP10003B3453	A D A L A L D A L G D L H S R R S L A R A C R D E G V P L V A G A L A G W S G Y V
UniRef90_J9F3V1	F A V V L S A L D N I A A R N H I N R L C L A A R V P L I E S G S S G Y L G H V
UniRef90_TOY3B1	S D I V F V G C T D N L L S S R A V L N D I S I Q Y F I P L I D V G C
UniRef90_U6IA85	I T C V C V A T D C N L V F A A L L N N Y C R Q R N I K F V Y A N T I G V L G N I
UniRef90_B7Q170	T I R T G N L Q G G P V D L V L S C V D N F E A R M A I N T A C N E L D Q V V
UniRef90_A8PWU3	F I V C V R Q P R N M A D S I A D L V W Q H A P S V P V M C V E S S G F Q G Y V
UniRef90_UP10003290BE6	Y Q C V V L T E I K L S Q K I N D F C R S Q C P P L K F I I S A D V H G I W S R L
UniRef90_M8BGW3	L D A V I N A L D N V N A R I Y V D M G C L Y F Q K P F I E S G T L G P K C N T
UniRef90_G4E6G0	A D W I I L A T D D H A S R F K T Q E I A L R F G I P L L S A G V N
UniRef90_UP1000469A4E9	H D V A I N A D F K S D I P F L F D R L C S E R G I Y V L H P Y N V G F A G I V
UniRef90_K1R3M4	F Q V V V L T N S N L E E K I R I G E I C H K N N I K F I S V D S R G
UniRef90_R9K3Q8	P D Y I V D A V D T V T A K L T I A E W A W R Q E V P L I S S M G T G N K L H P
UniRef90_R5EWU9	V D Y I L D A I D T V T A K L A L A G F A A S H A V P V I A S M G T G N K L H P
UniRef90_J0Q0K9	A D L V I S A A D N P D F F H L M N E A A F N M R G A L L Y V G S A T V N A I V
UniRef90_A0A059LPT6	C D V V L N A L D N V P A R L Y V D A R C V Y Y G R P L L E S G T L G P K V N T
UniRef90_R6V3Y5	Y D Y V V D A M D H V P A K L L L K Q M R K F H T P I I T C M G I G N A W N P
UniRef90_U5ZGY0	N F N V I D I D G L E Q R M M V N K F A V E N D I P M V H V S A Q Y G Y G Y A
UniRef90_Q088F0	I D Y V V D C I D A V K P K A G L I A W C K R N K I P L V T I I G G A G G Q T D P
UniRef90_G0QWQ0	F D V V V I T D E Y R Q D R I E I N E Y C R Q N Q K G F I Y S G M L G L Y G F T
UniRef90_A0A059ETJ1	Y E S I I I C V N K G I D Y M I E C N K N T R E N E G T F I G C Q V K G L F S Q V
UniRef90_F0WX10	F H V I L C G L D N I E A R R Y V N E L D P S T L I P L V D G G T E G L R G Q A
UniRef90_UP1000412B3DE	V D V Y V D S L D F F A A R K L V F R K C K E K R I P V V T A A P L G M G C A F
UniRef90_G3PUF0	Y Q C V I E A R L S L Q K R V N D F C H F H Q P P I R F I G C D A Y G I C A R V
UniRef90_E1KNT0	Y D Y V V D C I D T V V A K L D I I T R C H N L H V P M I S S M G A A F K L D A
UniRef90_D4CYM2	Y D Y I V D A I D L V S A K L D L I E F A T K T K T P I I S C M G T G N K L D P
UniRef90_G3VJ31	F D A V C L T C C S R D V L V K I D Q I C Y K N S I K F F T G D V F G Y H G Y M
UniRef90_W7ABP9	V C C D V S H T L L V K Y S K M V R S I S P A K K I A F L C C N I Y G L C G Y L
UniRef90_Q74E4Q5	I N C V A D C L D S F S G R F A L F N S L A D G T I L I H G A I Q G D H G Q V
UniRef90_K6VIA2	Q N M I V N A L D N I Q A R Q Y V D N K C V W Y S K P L F E S G T L G T K G N V
UniRef90_M2QCE4	C D V I M T A D H P P E I R T W T N Q A C T S T G T P W V Y G G Y H G P Q V N L
UniRef90_W5WWX9	M D V V I N E I
UniRef90_U5H2M1	Y S L I I I A V D V N P T D L L Q L S D L A W K Y H I P L I K V R S C G F Y G S L
UniRef90_T2MK75	Y H C V I T E M P D S Q V V L N N F C R E Q P I Y F I S G D V R G L F S Y A
UniRef90_E5W4S4	A S L I V D A T D N F E T R L I M N D A A V K L G I P F L Y G A C V A S Y G I T
UniRef90_A1ZN49	S V S V A V N D Y D T T A P F T F D N A C L E Y G V P I I H P G N L S W G A M T
UniRef90_D3TMM5	V D L V L S C V D N F E A R M T I N A A C N E L G L W F E S G V S E N A V S G H
UniRef90_UP100035D6DEB	Y D Y V V D A I D S V R I K A Q I A W C R R H K V R L I T T G G A G G Q T D P
UniRef90_A4A577	A D L Y I D S L D F F A F
UniRef90_R6RMA9	Y P I I I C E A F D S P E A K A D L V N S I L S Q G N T V I S S G S M G A Y S S N
UniRef90_Q22N18	Q D I V A N A L D D N V E A R R Y V D K R C V S S K T P L L E S S G T L G P K G H V
UniRef90_D4MTH8	V D Y I V D A I D T V A K A I L A E F A K K H G I P L I A S M G T G N K L H P
UniRef90_N1J7Z6	P D F I V D A I D N I D S K V D L L K Y C Y E R Q H S I I S S M G A G A K S D P
UniRef90_C5DBA0	F D L I I A T D V S T E E A I R V N Q L T R K F N V P F F L C G L N G L S G F I
UniRef90_M1WLL4	C D V V I E A L D D P M F K K A L V E A Y L P T D K L V V T A S G I G G T G N T
UniRef90_A0Q3Q5	T D Y V I D A I D T V T S K I A V A V A Y W C E K N N I K L I S S M G T G N K L D P
UniRef90_C3YBQ2	Q D L C V N A L D N V E A R R Y M D
UniRef90_I6UBF5	F Q M V Y S C L D N A E A R S Y V N Q R C F M S K T P L V D G G C G G F K G Q A
UniRef90_R9SIZ3	A D I I I I D A I D L N L K T R I I S R Y A K K S G K T F I H G A I H G T L G Q V
UniRef90_T1DRE7	Y D Y V L D A I D S L S P K V Y L I A L S L Q R G L R I I S S M G A G A K L D P
UniRef90_J9B7Z2	Y D Y V L D A I D S L S P K V Y L I A L S L Q R G L R I I S S M G A G A K L D P
UniRef90_R6EZI2	T E R R Y M D R R C Y Y R L P L L S G T M G T K G N M
UniRef90_J3KA89	Y D Y V V D A V D N I T A K I D I I E R A K A A G T P I I S S M G T G N K M D P
UniRef90_V9DR52	Y D L V L D C T D N P A S R Y L I S D A C V I L G K V L I S G A A Q R G E G M L
UniRef90_H1Z852	Y D Y V L D C I D S I T P K I N I L I L A A K R K R V K V I S A M G A G G K M L A
UniRef90_H1SFE1	H D Y I I I D A I D S V K V K I A M L G W A R R V G R R I I T C G G G A G G Q L D P
UniRef90_UP100037A4F23	P D A V I D C T D R T A A K V A M A E Y C H Q A G I P L F M A G A A G G R T D P
UniRef90_U6IP64	V D L V L S C V D N F E A R M T I N R A C N E L N I V W F E A G V S E D A S C H
UniRef90_U9Q701	F D Y L I A W C
UniRef90_I2KA63	Y D I V I D A A D T T K V K I E V A K K C Y K K L I M A L G S A K R Y D T N K I
UniRef90_F0GVA5	T D I F I E A F D K K E M K S L V F E Y F L K K D K K L I I I G S G L S G L G D L
UniRef90_E3H9H9	I D L V L V I D A L D S I P L K I M V E E K C S H L G I S I V H G A I G G W V A Q I
UniRef90_UP100006CF8CB	I D V I F N C T D K T K A Q Y L L E K S L W Y D K V L I D Q S L D A L K G S T
UniRef90_R5PY10	Y D Y V V A D C O D T I K A K D I A M R C H G L G V P L I S S M G A A N K F D P
UniRef90_W6LTB2	Y D Y V V A D C O I D S I A C K A A L V A G C H R H G V P V I S A L G A G N C L D V
UniRef90_S4W4J7	Y D I I V D A V D D P A G K V A L I K Y A V E N K L P L I S C M G A G N K T D V
UniRef90_W1WZ82	A D I I I E A F D S A D A K L M F V E G T L S M V K P K I M V S G L A G I G
UniRef90_R5MBF7	T D F I L I D C D T V T T K M A L I K Y A K D H N I P I I C A M G T G N R L D P
UniRef90_C4YR47	Q F N V V I V S D Y T P N L E P L I N L L W S K Q I P L F I V N T I G F Y G S L

170                    180                    190                    200

UniRef90_D3SFC2	T A <b>V</b> R <b>V</b> G <b>P</b> <b>L</b> E A T R <b>V</b> C		
UniRef90_Q4E0G2			
UniRef90_F8A9N0	L I F D <b>P</b>		
UniRef90_M1VBY6	Q V V V P Y L T E S Y		
UniRef90_Q5GF34	S V F I P H V T E N Y		
UniRef90_R1AY94	Y P K L P		
UniRef90_C5FH77	Q V F L P		
UniRef90_A4BFV3	N I K T V K K M S R L Y V C G D G K S D A F E L M A P R V M I C A G H Q A N M I		
UniRef90_R6XFU8	N I K T E K I G R N F Y I C G D R V N G A K V G M G L M A P R V T I C A A H Q A		
UniRef90_X8K5M7	T L L R V A D I S A T R G C		
UniRef90_H7EMD2	R L Q V V D H		
UniRef90_UP1000288492B	F V		
UniRef90_Q2RHW2	N		
UniRef90_M4C0D9	F C D F Q L H T C		
UniRef90_P0DI12	T K I S V S D Y K T T M C		
UniRef90_M8AXP5	S V H L K G V S E C Y E C Q E K P K P K S Y P A C T I R N T P S A M I H C I V		
UniRef90_UPI000478E4F5	T I I K P N		
UniRef90_A0A031GV10	A L V R P G G A H P V E F M G G D D S A E K K C P A P T V A L I A S L M A A E A		
UniRef90_H8XOL7	R P I I R D Y T E C Y E C N P K I M Q K T Y P G C T I R N T P S E H I H C		
UniRef90_L2GM29	F C		
UniRef90_W8U779	W M E V I P G E T A C F A C A P P L V V A S N I D P T T M G I V A G F L V Q N T		
UniRef90_C4ZJJ6	C I		
UniRef90_A9V5E2	F C		
UniRef90_UPI000381BA3D	Q M V I P H L T E N Y G A S R D P P E K Q A P M C T V H Y F P H N I D H C L T W		
UniRef90_UP10003B33453	M V M K P G G M N		
UniRef90_J9F3V1	E L F E I A D L S V T S V C P L C		
UniRef90_T0Y3B1	E L F R I S D I S Q T S V C P L C		
UniRef90_U6IA85	G P L I I L G K T R C Y A C V N Q N H		
UniRef90_B7Q170	Q A V V P R M T E N Y G A S R D P P E K Q A P M C T L H S F P H		
UniRef90_A8PWU3	S C F R I A D F S K T		
UniRef90_UP10003290BE6	F T R L N R S D P C L Y C A F P D P P E S R V F G V A T G I A V V M G A G K V		
UniRef90_M8BGW3	F V		
UniRef90_G4E6G0	F C		
UniRef90_UPI000469A4E9	R V I I P R V T S C F E C S L E S F P P Q T S F P M C T I A E T P R L P A H C I		
UniRef90_K1R3M4	L C F M P D G M Y E E Y F C F E G C K D E N		
UniRef90_R9K3Q8	F C		
UniRef90_R5EWU9	T Q F I V T D L F K T		
UniRef90_J0Q0K9	S R F Q V T D L K K T S V C		
UniRef90_A0A059LPT6	F		
UniRef90_R6V3Y5	F V D F G K G F V C Y		
UniRef90_U5ZGY0	L T I L V K G V S R P I F A G S R Q P A G P I P V T P A G P A V I A G Y M A H E L		
UniRef90_Q088F0	Q I I L P F L T Q S Y N D S Y D P P E D S I P L C T L K H F P Y D I I H T I E Y		
UniRef90_G0QWQ0	G I Y R P G A G P C Y E C P A A T I P A H A A N A V T A G V A G N L V A H A V		
UniRef90_A0A059ETJ1	T T Q I		
UniRef90_F0WXI0	F C		
UniRef90_UP1000412B3DE	Y S V I P G K T P C L H C L L G H L P A N T M T C D T A G V I G P Y Q V T D A		
UniRef90_G3PUF0	F V I T H D S M		
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UniRef90\_C4YR47

Sequence logo showing the conservation of amino acids at each position of the protein sequence. The x-axis represents positions 1, 10, 20, and 30. The y-axis lists UniProt IDs. Positions 1, 10, and 20 show high conservation of specific amino acids (e.g., P at pos 1, D at pos 10, R at pos 20). Position 30 shows significant variation with multiple colored boxes indicating different amino acids.

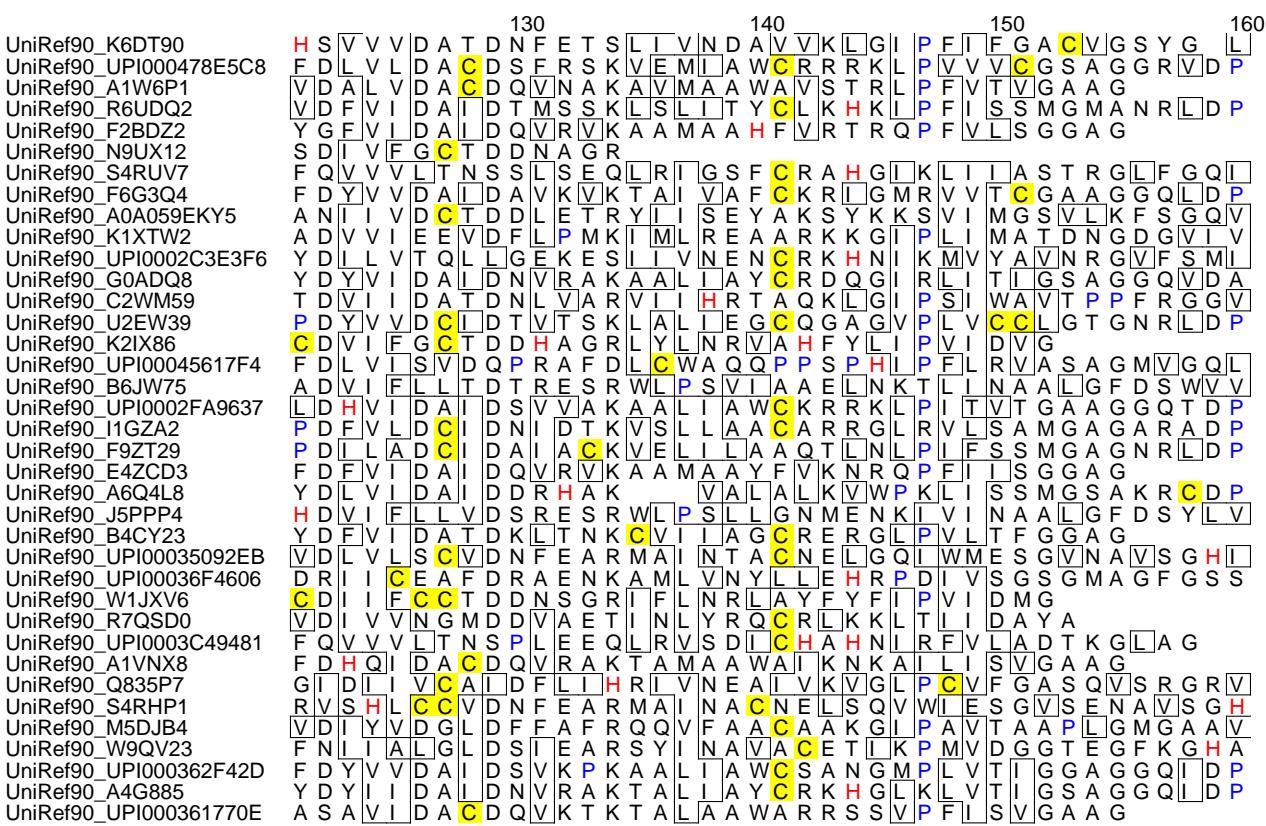
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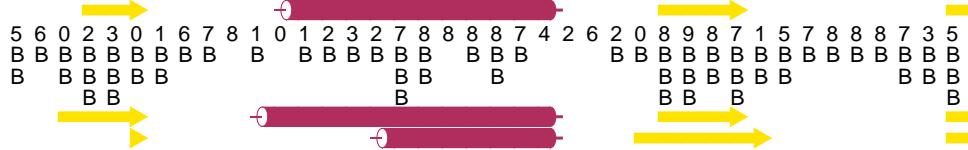
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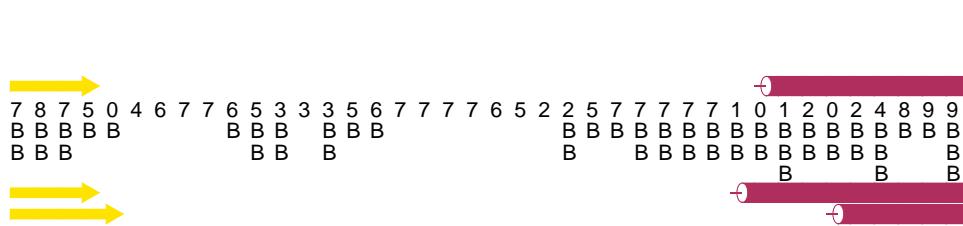
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