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V C D L G L D R I L V S Y F Y E N G E L A R H H E A V L P K G A G P R H L V F F
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S V N E G G I S A F G F D A A H G Q L T F L N K V S S D G N D P C Y L S I F
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V C D L G L D R I V T Y P F N A T A G K V D E A H A F Y T T T P G A G P R H M I F F
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QUERY P G I P D R D P E T G K G L Y R A D V C A L L T F S G K Y M F A S S R A N K F E L
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UniRef90_I3DBP3 T S S D P V A F D I S P D R K N M I V A S Y T G A T Y E L N E D Q S F K Y N K S
UniRef90_F4RN01 A G G S T C Y L T I D R A Q K H L I A V N Y W D S S L A V V P I S P E T G E F L
UniRef90_K0SQ80 V T T S S C Y F S D N G K Y T F T A G G P G A R I N K F E D D G G L
UniRef90_M4FQE5 P G S P R H L R F S S S G I H V Y V L H E M A G T V F E R D A G T
UniRef90_UPI00047E5149 G S S D P C T I L P L G D E L V I G N Y S S G C V A A I P L A S D A P Y
UniRef90_M2PBP0 G S S D P C T I L P L G D E L V I G N Y S S G C V A A I P L A S D A P Y

UniRef90_E3CGV3 G S L D L V N R L V H Q G S G P H A N Q G H A R V H F A D S P D H Y L L 130 140 150 160
UniRef90_F9TRX7 G E V I Q T F K Q Y Y R P E T V E N R E R Q V G P H A H C A H F W H D P W V F
UniRef90_U5VRU5 G V P G E R S D L L Q L Q G Q G P V A D R Q E G P H A H M V F P D P N G G P D V L
UniRef90_UPI000363A822 G A V G E R S D L L L D L A G S G P D P E R Q Q G P H A H M V V P D D R D C
UniRef90_F4CNT8 A V V R T I P D D V T T L N Q T A A H S I R V I S P S G R W V L
UniRef90_R9F4I5 G V P T A P V Q R L T H T G A G P R T D R Q E G P H A H S V V V A P S G G T F L L
UniRef90_UPI0003B47AA6 G S I G E T T E E L Y Q K G L G S A A G R N H R P H V Q C V R M T K D N K F L C
UniRef90_D4GFB8 V D H H Q D S G P A G A G K P A A V D G H N G P H A H M V A S D P T G Q F V Y
UniRef90_E8XMF6 V S I H P L D E K G L A L A G V Q V L E N I Q A P H S A N I D P T N Q V L M
UniRef90_UPI00046AC89A G K I E H Y S E V N K F E G H G P R V E Q D Q S K P H F S S L T P D G K F L C
UniRef90_D4KN36 G S I G A I A D G I F H I G M A R G S D R R T N P H V D C V K L T P D Q K F L C
UniRef90_N1ZXZ0 L T L L D T V T H Q N S S L G P R K E Q A D G A H P H Y F D E T P D Q G N L V
UniRef90_W7QSY8 G Q V I H S G A G P H K R Q E A P H H W M G W S P E G Q F L Y
UniRef90_UPI0003B33728 G S I G E I T D E R Y H K G L G T A A G R N H V P H V Q C T K V S K D N K Y V L
UniRef90_UPI000405CFF9 G S I G E L T D E T F L R G L G F A A G R N H R P H V Q C V K M T R D N K F L C
UniRef90_V8ABG0 G S L G P A T D V V H N T G P R Q P E R A A D G S H P H M I Q S D P S G K F L
UniRef90_S4MGI6 A R S A V H V L Q H T G A G P H T P R Q H G P H A H Q V Q P D P S G R W A V
UniRef90_UPI000369F209 A E V S D L A Q H T G A E R D A H A H Q V V T D P S G R W V L
UniRef90_G6X185 G A A T D V V H N H Q P E R A S D N P Q G N S G S H P H M I V S D P S G K Y V L
UniRef90_K3W1Q9 G S L A E L S D L H Q F E G S L A V P D R Q E A P H L H S S S W A P N G N Y L F
UniRef90_E0WS37 V S V S P L D N N G M V N K D W T Q Q L N N L K T P H S V N Q V P T N Q L L L
UniRef90_UPI00036E61F6 G S L G E A T D V V H N T G P R Q P E R A E D N P H P H M I G T D P S G R F V L
UniRef90_U2J6P7 G S L D R E E D F I Q F K G S V N K D R Q S G S H V H S A F F S A D G S K L F
UniRef90_S3CP77 G Q A L S T L P D G S L K A V Q Q S W K Y A N N S G L I H G L A F G K G S F V L Y
UniRef90_W7YJ3 A F L R K I K H H G K G P V L S R Q K A V H A H S I D I D P D G S H V I Y
UniRef90_UPI000381D398 G A A V A L L E G E G S G P V P G R Q E G P R A H S T A I A P G G R H L L
UniRef90_UPI00034BB7A7 S T P G A A I A R L V G E G S G P V E G R Q T G P H A H S T A M G P E G R Y L L
UniRef90_UPI0003627C48 G L T S V I T S E F T H E G R G P H D D R Q S V P H A H C A V P S P D N R F V I
UniRef90_D8HU40 G A A T D L V T H H G A E R D A H A H Q V V N D P T G R W V L
UniRef90_R4XZS1 P Q V T A R R G A G P R V D R Q E G P H L H Y A A A T D D G A R V Y
UniRef90_UPI0003742A3C G S L G G R T D L V T H S S P P G P G Q N G S P H A H Q I V T A P D D G H V L
UniRef90_R5A7E9 G E Y S L R E K D D P E S S L A A D I H V S P D G R F L Y
UniRef90_K2RNE5 A L G G S Q I F T L D T G A V P D R Q D A P H E H E A I L D P T G Q Y V L
UniRef90_UPI000368B114 G K L T T I G S V P T E K Q P R G F H I D P G G R Y L A
UniRef90_K3WX42 G S L A P A S D A H Y Y P G P G S N P A R Q D S S H M H S T T W V P G S D V V F
UniRef90_F6A9P1 L S V Q A I D K D G Q V S D K P Q V Y K T G P F A H S I R T D L S D R F V Y
UniRef90_N1PPX1 G D L V Q E L D Y V S G Q G E N Q S E K R G D V A H A H S V D L S P D G K S L Y
UniRef90_A0A010SP59 G M I S Q Y R L D V N N G A L S L T I E Q V N A G D Q V N P M A I T P D G K V L F
UniRef90_F3KPX2 Q W R F D A A T G Q L T P N D P P A M A R P G S G P R H L V F H P N G R H A Y
UniRef90_UPI0003718374 G S L T L T D T V K H E G E G S K V H A P G Q E R P H V I Y T D L T P D G R L V
UniRef90_K8WJQ3 L S V L T I N D E G V P N Q V S I Q V I E G L Q N P H S S H V D V D N Q Q X W
UniRef90_UPI0003691800 L D V Q Q I I K T G P M A H A L R N A P D N R Y V L
UniRef90_F7XXD8 L S V S P I D E H G I V G A P Q Q T L E G L T N C H S A N V D T I N K L L W
UniRef90_F0RZB0 I E T F P G K G K H P N R Q Q S S H I H S S L W L E A G K S L L
UniRef90_H5YEM7 G E P K Q V I P T G L N A H A F L P S P D N R F A F
UniRef90_S8CAR1 S K V V D S F T Y S L T Q P G L N K E R Q E A A H P H Q V V I D P S G S Y I V
UniRef90_C8XDG2 G R I G K L S Q L V I E H E G C G P H P D R Q Q G P H A H M V H V L D Q T L V L
UniRef90_UPI0002F86CC7 E P A Q V L A G V G G G P E E R Q D G P H A H F V T P T P D G A H V V
UniRef90_C6DD4 L T P N E P A E I K L P E G N G P R H L V L S P D N K M L Y
UniRef90_UPI0001924BF1 G S L L Y S K Y F D T G S G C N T E R Q S S S H P H G V Y I K D N Y V Y
UniRef90_J4UJS3 G E A V Q V S E N G R H K G D S V L D F G G L R H G G H S A D L S P D G S K L Y
UniRef90_E7G7N4 I V K V T Q T I K H E G H G P D P K R Q S E A H P H F I E Q T P D Q Q R M F
UniRef90_UPI0002EFC82E I V K V T D T V Q H K G V G A N R D R Q E A P H A H F A Q F L A T S N T L V
UniRef90_D6EX32 Q F V L N P E T G M L E A N D P P Q V A T G P G A P H C H L S V H P G G R W L F
UniRef90_N6TZ32 G E R T D L V A H R S P A P G P G Q E G P H A H Q I V T S P D G G H V L L
UniRef90_L1L4M6 S Q A G D P I F L P G E S G P H R T E Q T M S H P H Q I V A D R S G R F F L
UniRef90_W71667 G R V S A E A V Q V L P T G K N A H S I T A D R Q N R F V L
UniRef90_C6CNX8 L Y Q S T P D V V Q L R G K G P K K E R Q E A S H P H Q V V F I P E R E L L
UniRef90_W4JNZ6 L S S E P V Q T V H L H G S G P N T Q R Q R H A F A H Q A V Y D K G G R L A F
UniRef90_F4RT10 S Q A G D P I F L P G E S G P H R T E Q T M S H P H Q I V A D R S G R F F L
UniRef90_UPI000472F6B7 Q S S P Q V D P L Q L L S F L D Q N A Q R D D G S G A H S A D L L S P D G K A I V L
UniRef90_J0KAA5 V T L S A I D A D G R A E P H Q Q L D G L Q A A H S V T L L R A N K Q V L
UniRef90_V9DLN4 M E K P H I W V H E G H S V H P H R Q T S P H P H Q V I Q H K H L V C
UniRef90_X4UY90 Q H N Y P I E G S G P E V E Q D H A H I F T R L L P D G R L I
UniRef90_B6K0T3 G Q L E W V D S Y P N I L I S E K V N Q Q E A S G A I K L S Q D G R F L Y
UniRef90_M4KM2 G P H H L A M V E G H A D E D G A A A S L S R P H E I I F A P D S D Y Y A
UniRef90_K1LT35 G T V S T Y Q L D A A N G A L T P G A V A K A G P N V M P L A V I P S P D R S R L Y
UniRef90_J2M132 Q E L L Y V P E E L E T D K T R V A L R Y G S H S I D L D F P K K Q A F
UniRef90_M4KM2 G S I S G I N D I V I L Q G Q G K D P N H Q A S P H A H S A V I S P N G K Y L L
UniRef90_UPI00046233F2 I L G S S P Q L L Q F A G T G P D K D R Q E A P H P H Q V I R H P T R D E V L
UniRef90_U5HBL8 S T V G E I V D K V Q F K G G A S Y G T Q S G P H A H C V A L S K D N S Y L Y
UniRef90_B3YF92 R E I S S Y R I D W S T G G L S L T G E V S L E S D P C Y L A T D R K G R F V L
UniRef90_UPI00042896E72 A A G P T A T F S F Y G P G P N P I Q Q S S S R P H Q A R F D R T S T F L Y
UniRef90_X8JHH5 S L V Q T D Q Y K I A R P G P N P D R Q G S S H A H E A F L D P T G S F L L
UniRef90_M1W2Z0 G K L I A P P I G S Y K T G A H A H S V I V A D A S G E H A Y
UniRef90_J3C822 T P I L K S E T F K M S G P G P N P S R Q E A P H P H E V L I D P K G Q F V L
UniRef90_N4V052 G V P T V R T A L V Q H E G A G P I S D R Q E A A H V H M A V V D E T G T L V S
UniRef90_M2QBJ0 G V L A P V D W H L Q L G D K G V S H P H S V Y F T S D G S Q L F
UniRef90_UPI0004691AF9 G E N Q V H A N Q G S G P N A A R Q D A P H A H W V G F S P D R R C L Y
UniRef90_UPI0002896E72 G I L T P L Q S F V F K T P P G P R P Q Q D V I S H P H Q V V L D P S G K F I V
UniRef90_N1JJY5 V S V R Y Q N Q H I G A S V H S R Q K A P H P H W S G F S P N G H F A Y
UniRef90_W7QH14 G M P Q P G P V L F P N E G G P D P D R Q E G P H A H E A V F G P D G V L H
UniRef90_U2F239 N Q A L Q S L T F A M T Q P G T V P S R Q D K P H P H S V F T D P T G K Y L L
UniRef90_L2G724 P S W L T F D D K R Q Q L Y
UniRef90_I3DBP3 V Q A Y S Y N A T G P N I A R Q L Q S Y I H Q A R Y D P T G R I A T
UniRef90_F4RN01 G E I K H T Y D P R G G Q A M I A A A Q R Q A D P H S H A L V L D P E G C V A Y
UniRef90_K0SQ80 G E Q T H E M F Y V P A Q D I P R V D K T G A H S F D V N V N N K G F
UniRef90_M4FQE5 G S L T E I Q S V S S V F P E H L Q L I R G K P G P D A I W C A L T P D N R F L Y
UniRef90_UPI00047E5149 L Q E T T T V V Q Q F T G E G P D R V R Q T M S H P H Q V A W I S S L N E L F
UniRef90_M2PBP0

	170	180	190	200
UniRef90_E3CGV3	T C D L	G T D E L	T S Y A L N E T	G L V Q P L D N Y K F P A G S G P R H L T F
UniRef90_F9TRX7	I P D L	G S E N A I V	F Q Y R W D A S Q	S R T L T R E T W I E F E P G S G P R H L M A M
UniRef90_U5VRU5	I S D L	G A D R V	W R A R L D A S G	R L T L A G P A A V A K P P G T G P R H L L R Y
UniRef90_UPI000363A822	V T D L	L G A D R V	W R C R L D S	S G R L T M L P P A V T A K P P G T G P R H L L R Y
UniRef90_F4CNT8	A S N R	G H D S I	A L L R V D G	S D E P P V L A H T E P G R G S W P R E L L A L
UniRef90_R9F4I5	V V D L	L G T D E L	R C F P F A P E	A D Q R P P Q H I A A R L E P G S S A P R H L I K F
UniRef90_UPI0003B47AA6	A C D L	L G M D R I	N V Y K L N K D	G T L T P P A W I N A S S A G A G P R H F V F
UniRef90_D4GFB8	S T D L	L G L D R I	Y Q Y H L N K D	G T L T P P A W I N A S S A G A G P R H F V F
UniRef90_E8XMF6	I P A L	K G E D R I	R Q F D F S V N	D A K N G E A T P H A P E L K T A A G Y A G P R H L M A F
UniRef90_UPI00046AC89A	I C D Y	G A D R I Y	I Y R V D Y T	G K L K L V D I I R G P L E S A P R M I R F
UniRef90_D4KN36	A V D N	G L D Q V	K I Y R V D Y T	G K L K L V D I I R G P L E S A P R M I R F
UniRef90_N1ZXZ0	S C D L	L G N D T V	D F Y R L T D	Q D N K L K H L A T Y K N E A G D G P R H L V F
UniRef90_W7QSY8	G V D L	L G T D Q I	L Q F S L Q N Q	N G W N A K V A A S L Q A G D G P R H L V F
UniRef90_UPI0003B33728	A A D L	L G M D R V	N I Y S L Y E T	G K I K E V D V I H C D Q E S S P R H M Q F
UniRef90_UPI000405CFF9	A A D L	L G M D R V	N V Y R D H E T	G K L E N A D V I H C D Q E S S P R H L K F
UniRef90_V8ABG0	A D D A	G L D R V Y	V W T L N Q	E T G K L V P A T P Y Y D M T P G S A P R H H F Q F
UniRef90_S4MG16	S V D L	L G T D S V	R V Y C T L	T D G T L A L H R E T A L R P G S G P R H L A F
UniRef90_UPI000369F209	A V D L	L G A D S V	Y V Y W T D L	G T G K L I P A T P Y Y D M T P G S A P R H H F R F
UniRef90_G6X185	A D D A	G L D R I Y	V W T D L A	K G K L I P A T P Y Y D M T P G S A P R H H F R F
UniRef90_K3W1Q9	G A D L	L G N D R V	A Q F V V D	K A T K K N P N G A F A V R P T G S G P R H L A I
UniRef90_E0WS37	V P C L	L T E D K I	K L F N L T	P D K G E L T P H Q K E L I T A K G S A P R H M A F
UniRef90_UPI00036E61F6	A D D A	G L D R V Y	V W T D L A	K G K L I P A T P Y Y D M T P G S A P R H H F V F
UniRef90_U2J6P7	V S D L	L G A D L I	Y I Y G V E	Q K G D G Y S L H R I D S T P K G T G P R H V V V
UniRef90_S3CP77	A A D L	L G A D S V	W T H R L D	A S E E V I E E V G R W M V N R N G T H P R H L V A
UniRef90_W7YJY3	A A D L	L G A D K L	M V Y T Q D	S M G L T M V D S V M C L T M V D S V M C L T M V D S V M C
UniRef90_UPI000381D398	I A D L	L G A D V L	R V H P F D	A D D P E P V G A A L E P V D P G T G P R H M A V
UniRef90_UPI00034BB7A7	I A D L	L G A D V L	R V H P F D	A D D P E P V G A A L E P V D P G T G P R H M A V
UniRef90_UPI0003627C48	V A D L	L G T D E L	T T Y A L D	Q P R R A L G P A N T A P L K P G S G P R H L T F
UniRef90_D8HU40	A V D L	L G A D S V	Y V Y G F A	A A G K L S L H Q Q K L L P S G A G P R H L A F
UniRef90_R4XZS1	L C D L	L G T D T I	A C H R V R	P D G L A P M P E S R A A L A P G A G P R H L A L
UniRef90_UPI0003742A3C	A V D L	L G T D T I	Y T Y R L D	E S G L T E V S R A A L A P G A G P R H L T F
UniRef90_R5A7E9	V S D R	G P G C L C	G F Q I Q E	S G E L N P V G R F P T G G W C P R S F H I
UniRef90_K2RNE5	V P D L	L G A D R V	R V F S Y D	S S G A L S E E E P L S T E A G T G P R H A A F
UniRef90_UPI000368B114	A V I G	L S D S M T	V V A D Q S	S S G V L T K L K S Y A T A G T G K P N W V E F
UniRef90_K3WX42	A P D L	L G T D R I	V Q Y K F D E	S V N Q K F D N T T F P I V K P G S G P R H M D I
UniRef90_F6A9P1	A G N L	G A D K V L	Q F S D K Q	S G A L T P I G S E F A S T T A K T G P R H L A F
UniRef90_N1PPX1	V A D I	G R N C I	W T Y K V I	A D P L E L G S K H I L S P R E H D G P R H T W P
UniRef90_A0A010SP59	A A L R	V K P Q V	L G Y R D P	K S G H L T P L S K A P L A E S M A Y L S T
UniRef90_F3KPX2	L L G E	L D A S V	E L L E V D	A A G Q L S R K Q H W S T L P A G T W A A D L H L
UniRef90_UPI0003718374	T C D L	L G T D E I	T V L Y D V	V E E A G K L S L V S L Y R M P A G T G V R H L I F
UniRef90_K8WJQ3	V P C L	L G E D H I	L R L F D L	H E N G Y L T E A A D Q I T T A E K S G P R H L A F
UniRef90_UPI0003691800	A S V L	L G S D A W	L R L K F D	P E S E S L T E A T P A Y S L A A K S G P R H F V F
UniRef90_F7XXD8	V P C L	L Q E D R I	R L Y A I D	D E S E N L T T L K P V A L K S T G A G P R H M A F
UniRef90_F0RZB0	V A D L	L G L D R I	I W Y T D S	F T R K H Y I T V P A G T G P R H L A L
UniRef90_H5YEM7	A T N L	L G S D Q I	L A F A F A	D A T G T L T P S D P P A H V P E K S G P R H F V F
UniRef90_S8CAR1	T P D L	L G A D L L	R L Y S I N	E T N I S E L K P V P V E P G S G P R H G Q F
UniRef90_C8XDG2	A V D L	L G A D L I	V A Y R L D	P A A T L T P L M T S P L P A G T G P R H L V
UniRef90_UPI0002F86CC7	V V D L	L G T D E L	R R R R V R	P D G L L D E D G V A V L F A P A G T G P R H L A W
UniRef90_C6DD4	V S N E	L S G K V A	R L A L D E	N G Q L T L L D Y T D T V P A D A G M R D L R L
UniRef90_UPI0001924BF1	V V D L	L G A D R I	W C F N H	K N E S L S L S P V C I L T P S G S G P R H M V F
UniRef90_J4UJS3	V A D I	L G R N C V	W M Y H D	A T G H L K E A S K N I A K R G H D G P R H A W P
UniRef90_E7G7N4	V C D L	L G T D E V	V L Y K I G	E K G R L E R D E E S F Q L A P G S G P R K M I F
UniRef90_UPI0002EFC82E	T V D L	L G T D R V	S F Y P F S	D T Q L D R D N A Q H V I F P P G S G P R H L V F
UniRef90_D6EX32	S A N Y	G S G S V A	H V P V D A	S G A L G E T P P P G P G Q R G P H A H Q V V T
UniRef90_N6TZ32	V T E L	T G H V I	H Y A L D S	A R G T L T E V Q S V A S V P G V V P S D I G I
UniRef90_L1L4M6	A V D L	L G N D T V	Y T Y R L D	E S G T L T E V S R A R T R A G A G P R H L T F
UniRef90_W71667	V G A N	G G D I T I	L F K Y D P	S R G L L R S S V Y S E P G F M P S W Q S I
UniRef90_C6CNX8	V S N L	L G S D Q L	Q Q L R F D	A T G Q L T P N T P A E A L P P D N G P R H L V L
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