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

QUERY	K	F	T	F	T	P	P	Q	G	V	T	V	D	D	D	Q	R	K
UniRef90_V3TW68	K	F	T	F	T	P	P	K	G	V	T	V	D	D	D	Q	R	Q
UniRef90_WOLE06	K	F	K	F	T	P	P	K	G	V	T	L	D	D	D	Q	R	Q
UniRef90_UPI000471851E	K	F	R	F	T	P	P	Q	G	V	T	V	D	D	D	Q	R	K
UniRef90_C5BE92	K	F	R	F	T	P	P	P	G	V	T	L	D	D	D	Q	R	Q
UniRef90_Q47GI3	T	F	K	F	T	P	P	A	G	A	D	V	V					
UniRef90_C6C7V2	K	F	H	F	T	P	P	K	N	V	T	V	D	D	D	Q	R	Q
UniRef90_B2VC57	K	F	K	F	R	P	P	K	G	V	T	V	D	D	D	Q	R	Q
UniRef90_B4EV91	A	F	R	F	T	P	P	A	G	V	T	V	D	D	D	Q	R	Q
UniRef90_M1SEK3	K	F	T	F	T	P	P	K	G	V	T	L	D	D	D	Q	R	Q
UniRef90_C7BQF6	K	F	S	F	T	L	P	K	G	V	T	L	D	D	D	Q	R	Q
UniRef90_UPI0004749311	L	F	S	F	T	V	P	E	G	V	E	L	D	D	D	Q	R	Q
UniRef90_R8AU11	Q	F	S	F	T	V	P	K	G	V	E	I	D	D	D	Q	R	Q
UniRef90_A0A011NHH3	L	F	R	F	T	P	P	A	N	T	D	V	I					
UniRef90_G8QFL3	L	F	R	F	T	P	P	P	G	A	D	V	I					
UniRef90_UPI000366EBE8	R	F	T	F	T	P	P	K	G	A	D	I	I					
UniRef90_C7RQ01	L	F	R	F	T	P	P	A	N	S	D	V	I					
UniRef90_W9AU07	L	F	T	F	T	P	P	K	G	V	E	L	D	D	D	Q	R	
UniRef90_UPI00046ABFDB	L	F	K	F	T	P	P	E	G	A	D	V	I					
UniRef90_K2FVJ5	L	F	E	F	E	P	P	E	G	A	D	V	V					
UniRef90_UPI00036241D5	I	F	N	F	K	P	P	A	G	T	D	I	I					
UniRef90_A1K578	R	F	R	F	V	P	P	A	G	A	D	V	I					
UniRef90_UPI000374F52C	A	F	R	F	T	P	L	A	G	V	M	V	D	D	D	Q	R	
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UniRef90_C4L939	T	F	N	F	K	A	P	E	G	V	T	V	D	D	D	Q	R	Q
UniRef90_P57835	I	F	K	F	S	V	P	K	G	V	E	L	D	D	D	Q	R	Q
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UniRef90_UPI000375674F	Q	F	Q	F	T	P	P	A	G	A	D	V	I					
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UniRef90_H0PW3E3	L	F	R	F	T	P	P	A	G	A	D	V	I					
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UniRef90_J2UEV3	T	F	R	F	T	P	P	K	G	A	D	V	I	R	Q			
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UniRef90_F5SN09	Q	F	K	F	T	P	P	K	G	V	D	V	I	N	Q			
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UniRef90_F3KHR4	L	F	Q	F	T	P	P	A	G	V	D	V	I	A	Q			
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UniRef90_A4VLV0	L	F	T	F	E	I	P	E	G	A	D	V	I					
UniRef90_D2ABB2	K	F	T	F	T	P	P	Q	G	V	T	V	D	D	D	Q	R	K
UniRef90_E5ANI0	T	F	K	F	T	V	P	K	G	A	D	V	I	N				
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UniRef90_T0AW12	R	F	R	F	V	P	P	S	G	A	D	V	I					
UniRef90_K0CCN4	R	F	S	F	T	P	P	E	G	T	D	V	I	R	Q			
UniRef90_W6M7M3	L	L	K	F	T	P	P	P	G	V	D	V	V					
UniRef90_B2T1A1	A	F	K	F	T	V	P	K	G	A	D	V	I	N				
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UniRef90_C8PVU2	Q	F	S	F	T	P	P	K	G	V	D	V	I	N	Q			
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UniRef90_I4WXA7	T	F	N	F	V	P	P	K	G	A	D	V	I					
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UniRef90_S2L478
UniRef90_H5SAF3
UniRef90_X1GZ63
UniRef90_E1V4K2
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Y I L I G L T K G I L L G G M E L S D N F G Q Q T R I Y F S D V V N P P S I L K Q T A
U P I 0 0 0 4 7 7 D 6 D 0 R I L I G M D G D R V L G G M M V L Y D A F G N Q T R I R F S N M R N P P S I L P A N D
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V S Q I A S H L A K A K G V R A R F T Q T M K A P L V S T G S L L F L R E R
L E E L Q Q R F A S Q T Q V R A D N D Y T Q L M S Q P L K S D G S M L T A Q Q K
V A Q V R A R L V N A P V I H G N F E Q K K T N P L V S T G T F L I A Q G K
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I S E Y Y G T L K D Y E V D F E I K V I D K T E S A G K V S Y S P D
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D M L E S L R R E A M G V T T I T S S F T Q V F N D T V I S E G H F F F Q R P P G
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Q E I S P S Q I Y T L Y K K G Y K A Y V Q E A K D V I E L S P E D R N N V Y Y
S A T P L K H F L K K T L N L A E D T T I S L P D S H L V V I E D N P K N G D E
I D F L E I L H K A K R Q D G S Y T T D F E G T R Y V L I
F Q T P M K L L L G D K I D L S S G H A L R E T P G A T T I I L R D R S I G A G
S A T P L K H F L K K K L D L A N D T K I L L D A K T E F H L I V I E D N P Q N G
D F I S I T K S A K K Q P D G T Y H T K I E G T Q Y V L F
S S T P L K L L L D E R I D L S Q V D V R Q E A D A T T I T L A D R S V G N S
A D L T Y S F F T G K G L L Q R D F H I R P A N E D I K L I P K T P Q S Q V Q
E S K L T R F L S G L G K L K D D F Y I G E G N Y L L D L I P R S F N E A G I E
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S Q T P L R Y L L S D R L R D T N V V S I T S D I I E E K N A V I G T S
S M N P Y T F I N M Y K A G Y R L N H Q V R G N N Y E V H M V A Q N N N G I P
S H V F L S L F K G D T S Q L T E Q F E L A E K E W Q L V L T P K A A P L N A V
D D S T P A G L I Y R S D P D I T M T G I R R S K G V S E V D L V M A S D P A A G
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K K T P L N L L L K A K D V N L I K N K M V S E N K N T F I V V Q D P K R L S Q G
D E L T P S T V Y T I Y V K G Y N Y R L V G E R T E E V E L T A E K A N A P F K
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N H L M R A L F Q A D R T V L A E N F T L E Q E K W R L V L T P K T S P L D K L
D A L N P A K I F T I Y E K G F K Y L Y T G E T K Q N I D L T P V D G K G T F F
I S A E A L S F M G G L K N L S Q L F E T N K S L Q K L H L T P K D K N S A I L
S E Q I L A W T M D I P W L Q S L Y S I K V T N Y S M E L T P K S K T K L N
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K V R M Y N K E Q G L L V S N G K T M W S Y D E K N N E V F V M E L K Q P E
I I K W Q Y T K P F P Y S L L F K N D F L Y I D D D G Q K S K Q D M S A N D L I
G V I W R V D T P Y K A T Y V I T D A G V S E V D S N G K R V N T K S A Q A Q V
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K G E Q Y R L K L P E Q E I F N D G K T V W T F I Q G Y R E V T I N D V S Q M E
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G E L T P S N I Y K M Y S G F D Y R L I G E K Q Y Q V E L I A T S G S R P F E D
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L N R V I Q R Y T A L H S Y E A S Y T E Q V G Q M G Q L Q L K M T L K S I P
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S S T A Q V W S D G A G
S G G Q K S L R V W S D G E R
D L P E L M G L L A K Q K S G E A R F T E Q L E G P L D A S G T L S F E A P D
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E I L N Q A M Q E T S E L D S Y Y G E Y K T T M D D G T E L L S K Q W E K K G
E V A A K F A E T Y D S L Q D F S A T V T T V S D R G T F E L V W F K K P D
M S N R F A T M N S F S T S F T E R N G S K I K T G T L I S K N P N
L N E V S A K V Q S Y D N I V L D F K Y S L E N T Q D T R G D A S L L G D K
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G G S S T V R V W S D G D G
L D K V A A K V K S F K T I Q V D F K Y N L Q N A K E G K G N V T L S G N
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