

1 10 20 30 40
QUERY G M I R L S N E N T G V Y F F M D K E N V P L A S C Q S G S D T V I F E T K Y D D C F F S D N
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UniRef90_W1SIC2 M E L I Y K D Q C I V L A M S R N N A P V V K K V P G S S D T V I F E T T Y D D C C C C F F S N
UniRef90_W7CTZ3 M H P M T K H H V I Y A M D K N A E P S M T V D N G S S V V L E T T Y D D C C C C F F S D
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UniRef90_G8Z183 M M V I P R D K H V Y S F G P N M K E V A R A K P G S S T V I F E T T Y D D C C C C F F Q N
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UniRef90_M0MDQ0 I Y I N K E D S I V S M S S N N K A K H Y C K S G S T V V F Q T S D C C Y N G
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UniRef90_UPI00047DAEB1 H L L S K E Q S V F A F S K E N E P V L K I T S G E Q V T S G E Q V T F Q T Y D C C C C F F S N
UniRef90_UPI0002379657 H T I H K H N H H F G W D N S I E P V L S V D P G E T V E V E T I D S S G G
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UniRef90_R5SXP1 L L T I P A S Q T V F A M S P D N A P V L R A A S G S R V R F E T C C C C F F T D
UniRef90_V7IDQ4 E K Y V Y H F S P D N K P V F E R V R K G E T I V F K T L D C C C C F F S N
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UniRef90_M1ZKE6 R L A N H H L I Y T M A D N P A L R V A D G S T V E I A T C C C C F F E D
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QUERY	50	60	70	80
UniRef90_A6TSA4	Q	N	E	E
UniRef90_K2GF64	Q	R	T	S
UniRef90_T0DU23	Q	T	S	E
UniRef90_A0A023CKZ7	Q	A	S	N
UniRef90_COZ6R8	Q	Q	R	A
UniRef90_D7CT14	Q	K	D	E
UniRef90_UPI00046F0853	Q	K	D	E
UniRef90_F6B5A8	Q	Q	D	E
UniRef90_J9HP82	Q	Q	D	E
UniRef90_UPI000377E1BB	Q	D	S	E
UniRef90_W1SIC2	Q	Q	D	E
UniRef90_W7CTZ3	Q	I	S	E
UniRef90_M5EDK1	Q	Q	S	E
UniRef90_D1C910	Q	N	R	N
UniRef90_W7DJW8	Q	T	D	E
UniRef90_UPI0003F60D0F	Q	T	R	A
UniRef90_W3AEVW4	Q	Q	S	A
UniRef90_Q8R8S5	Q	Q	S	A
UniRef90_E7GRZ9	Q	L	P	E
UniRef90_D6TVW7	E	K	Q	D
UniRef90_UPI00047284D3	E	K	T	N
UniRef90_M7NGX0	Q	Q	S	A
UniRef90_D2Z646	Q	K	S	E
UniRef90_W4Q7Y9	Q	K	S	E
UniRef90_I6UPX8	Q	R	S	E
UniRef90_UPI00047998C7	Q	K	T	N
UniRef90_D9TSC9	Q	K	T	N
UniRef90_UPI00030AC56B	Q	L	S	P
UniRef90_R6J752	U	K	T	E
UniRef90_UPI00036820DF	T	V	K	S
UniRef90_UPI00047C2B5F	Q	I	T	C
UniRef90_S9UMC8	Q	I	T	S
UniRef90_UPI00042726B1	Q	I	T	S
UniRef90_UPI0003616B47	R	L	V	P
UniRef90_A6CMG9	Q	L	T	S
UniRef90_K6PRF6	Q	L	T	S
UniRef90_G9NKD4	Q	V	T	P
UniRef90_H9U9W0	Q	I	R	T
UniRef90_D5WY30	Q	Q	I	R
UniRef90_A4YDZ0	Q	Q	I	T
UniRef90_E4RJV6	Q	I	R	D
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UniRef90_UPI000477ABC3	Q	L	D	M
UniRef90_M0HD11	Q	Q	I	T
UniRef90_J4KNI4	U	T	V	K
UniRef90_V6Z435	T	V	K	S
UniRef90_G8Z183	Q	Q	V	K
UniRef90_UPI0002E5B45D	E	I	R	S
UniRef90_A9BH43	E	I	R	S
UniRef90_H3K293	Q	L	D	P
UniRef90_M0MDQ0	Q	I	D	V
UniRef90_R5X6H0	N	L	K	S
UniRef90_E5YHQ0	Q	I	A	S
UniRef90_UPI00047DAEB1	Q	Q	L	N
UniRef90_UPI0002379657	Q	L	N	A
UniRef90_UPI00026C8AD1	Q	L	F	T
UniRef90_D6Y0A3	Q	F	T	R
UniRef90_D0WH77	Q	V	R	S
UniRef90_F8AJ17	Q	I	K	D
UniRef90_UPI000313B906	Q	I	Q	I
UniRef90_F2SER3	M	I	A	R
UniRef90_D8J8C8	Q	V	G	P
UniRef90_UPI0003653990	K	A	P	A
UniRef90_M1ZAP7	Q	Q	R	E
UniRef90_L9Y714	Q	F	G	P
UniRef90_K0ZAS6	Q	V	Q	T
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UniRef90_G4L5B6	Q	F	H	S
UniRef90_UPI000360BAC9	Q	F	T	R
UniRef90_V2X516	A	I	S	P
UniRef90_UPI00037FCC33	Q	L	N	Q
UniRef90_T0N7U6	Q	L	N	Q
UniRef90_UPI00040E212F	Q	L	S	Y
UniRef90_D5XE92	Q	L	V	E
UniRef90_R5SXP1	Q	F	L	P
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UniRef90_F4LVF2	Q	V	K	S
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UniRef90_M1ZKE6	Q	I	H	S
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UniRef90_B1L5R6	Q	V	K	G
UniRef90_UPI0004045AA5	Q	V	L	G
UniRef90_L9XCS8	Q	V	T	V
UniRef90_K9I065	Q	I	L	P
UniRef90_UPI0003WZQ0	Q	I	L	G
UniRef90_U7GI83	Q	L	T	P
UniRef90_UPI00044170C8	Q	L	D	A
UniRef90_M0ISD4	Q	L	T	P
UniRef90_UPI00044498EC	Q	V	T	P

QUERY UniRef90_A6TSA4 UniRef90_K2GF64 UniRef90_T0DU23 UniRef90_A0A023CKZ7 UniRef90_COZ6R8 UniRef90_D7CT14 UniRef90_UPI00046F0853 UniRef90_F6B5A8 UniRef90_J9HP82 UniRef90_UPI000377E1BB UniRef90_W1SIC2 UniRef90_W7CTZ3 UniRef90_M5EDK1 UniRef90_D1C910 UniRef90_W7DJW8 UniRef90_UPI0003F60D0F UniRef90_W3AEVW4 UniRef90_Q8R8S5 UniRef90_E7GRZ9 UniRef90_D6TVW7 UniRef90_UPI00047284D3 UniRef90_M7NGX0 UniRef90_D2Z646 UniRef90_W4Q7Y9 UniRef90_I6UPX8 UniRef90_UPI00047998C7 UniRef90_D9TSC9 UniRef90_UPI00030AC56B UniRef90_R6J752 UniRef90_UPI00036820DF UniRef90_UPI00047C2B5F UniRef90_S9UMC8 UniRef90_UPI00042726B1 UniRef90_UPI0003616B47 UniRef90_A6CMG9 UniRef90_K6PRF6 UniRef90_G9NKD4 UniRef90_H9U9W0 UniRef90_D5WY30 UniRef90_A4YDZ0 UniRef90_E4RJW6 UniRef90_V5FS44 UniRef90_UPI000477ABC3 UniRef90_MOHD11 UniRef90_J4KNI4 UniRef90_V6Z435 UniRef90_G8Z183 UniRef90_UPI0002E5B45D UniRef90_A9BH43 UniRef90_H3K293 UniRef90_M0MDQ0 UniRef90_R5X6H0 UniRef90_E5YHQ0 UniRef90_UPI00047DAEB1 UniRef90_UPI0002379657 UniRef90_UPI00026C8AD1 UniRef90_D6Y0A3 UniRef90_D0WH77 UniRef90_F8AJ17 UniRef90_UPI000313B906 UniRef90_F2SER3 UniRef90_D8J8C8 UniRef90_UPI0003653990 UniRef90_M1ZAP7 UniRef90_L9Y714 UniRef90_K0ZAS6 UniRef90_J4GEH0 UniRef90_G4L5B6 UniRef90_UPI000360BAC9 UniRef90_V2X516 UniRef90_UPI00037FCC33 UniRef90_T0N7U6 UniRef90_UPI00040E212F UniRef90_D5XE92 UniRef90_R5SXP1 UniRef90_V7IDQ4 UniRef90_F4LVF2 UniRef90_UPI0002DCB115 UniRef90_W4F7E0 UniRef90_H9UBG0 UniRef90_M1ZKE6 UniRef90_UPI0004168F05 UniRef90_B1L5R6 UniRef90_UPI0004045AA5 UniRef90_L9XCS8 UniRef90_K9I065 UniRef90_A0A023WZQ0 UniRef90_U7GI83 UniRef90_UPI00044170C8 UniRef90_M0ISD4 UniRef90_UPI00044498EC

90 100 110 120

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

QUERY UniRef90_A6TSA4 UniRef90_K2GF64 UniRef90_T0DU23 UniRef90_A0A023CKZ7 UniRef90_COZ6R8 UniRef90_D7CT14 UniRef90_UPI00046F0853 UniRef90_F6B5A8 UniRef90_J9HP82 UniRef90_UPI000377E1BB UniRef90_W1SIC2 UniRef90_W7CTZ3 UniRef90_M5EDK1 UniRef90_D1C910 UniRef90_W7DJW8 UniRef90_UPI0003F60D0F UniRef90_W3AEVW4 UniRef90_Q8R8S5 UniRef90_E7GRZ9 UniRef90_D6TVW7 UniRef90_UPI00047284D3 UniRef90_M7NGX0 UniRef90_D2Z646 UniRef90_W4Q7Y9 UniRef90_I6UPX8 UniRef90_UPI00047998C7 UniRef90_D9TSC9 UniRef90_UPI00030AC56B UniRef90_R6J752 UniRef90_UPI00036820DF UniRef90_UPI00047C2B5F UniRef90_S9UMC8 UniRef90_UPI00042726B1 UniRef90_UPI0003616B47 UniRef90_A6CMG9 UniRef90_K6PRF6 UniRef90_G9NKD4 UniRef90_H9U9W0 UniRef90_D5WY30 UniRef90_A4YDZ0 UniRef90_E4RJW6 UniRef90_V5FS44 UniRef90_UPI000477ABC3 UniRef90_MOHD11 UniRef90_J4KNI4 UniRef90_V6Z435 UniRef90_G8Z183 UniRef90_UPI0002E5B45D UniRef90_A9BH43 UniRef90_H3K293 UniRef90_M0MDQ0 UniRef90_R5X6H0 UniRef90_E5YHQ0 UniRef90_UPI00047DAEB1 UniRef90_UPI0002379657 UniRef90_UPI00026C8AD1 UniRef90_D6Y0A3 UniRef90_D0WH77 UniRef90_F8AJ17 UniRef90_UPI000313B906 UniRef90_F2SER3 UniRef90_D8J8C8 UniRef90_UPI0003653990 UniRef90_M1ZAP7 UniRef90_L9Y714 UniRef90_K0ZAS6 UniRef90_J4GEH0 UniRef90_G4L5B6 UniRef90_UPI000360BAC9 UniRef90_V2X516 UniRef90_UPI00037FCC33 UniRef90_T0N7U6 UniRef90_UPI00040E212F UniRef90_D5XE92 UniRef90_R5SXP1 UniRef90_V7IDQ4 UniRef90_F4LVF2 UniRef90_UPI0002DCB115 UniRef90_W4F7E0 UniRef90_H9UBG0 UniRef90_M1ZKE6 UniRef90_UPI0004168F05 UniRef90_B1L5R6 UniRef90_UPI0004045AA5 UniRef90_L9XCS8 UniRef90_K9I065 UniRef90_UPI0003WZQ0 UniRef90_U7GI83 UniRef90_UPI00044170C8 UniRef90_M0ISD4 UniRef90_UPI00044498EC

130 140 150 160

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

QUERY	170	180	190	200
UniRef90_A6TSA4	K	L	L	A
UniRef90_K2GF64	K	L	L	A
UniRef90_T0DU23	A	L	L	A
UniRef90_A0A023CKZ7	T	L	L	A
UniRef90_COZ6R8	T	L	L	A
UniRef90_D7CT14	M	L	L	A
UniRef90_UPI00046F0853	R	L	L	A
UniRef90_F6B5A8	A	L	L	A
UniRef90_J9HP82	D	L	L	A
UniRef90_UPI000377E1BB	T	L	L	A
UniRef90_W1SIC2	G	L	L	A
UniRef90_W7CTZ3	P	L	L	A
UniRef90_M5EDK1	G	L	L	A
UniRef90_D1C910	T	L	L	A
UniRef90_W7DJW8	T	L	L	A
UniRef90_UPI0003F60D0F	T	L	L	A
UniRef90_W3AEW4	A	L	L	A
UniRef90_Q8R8S5	I	L	L	A
UniRef90_E7GRZ9	A	L	L	A
UniRef90_D6TVW7	K	L	L	A
UniRef90_UPI00047284D3	L	L	L	A
UniRef90_M7NGX0	T	L	L	A
UniRef90_D2Z646	G	L	L	A
UniRef90_W4Q7Y9	P	L	L	A
UniRef90_I6UPX8	V	L	L	A
UniRef90_UPI00047998C7	T	L	L	A
UniRef90_D9TSC9	E	L	L	A
UniRef90_UPI00030AC56B	I	L	L	A
UniRef90_R6J752	A	L	L	A
UniRef90_UPI00036820DF	K	L	L	A
UniRef90_UPI00047C2B5F	V	L	L	A
UniRef90_S9UMC8	A	L	L	A
UniRef90_UPI00042726B1	T	L	L	A
UniRef90_UPI0003616B47	I	L	L	A
UniRef90_A6CMG9	K	L	L	A
UniRef90_K6PRF6	L	L	L	A
UniRef90_G9NKD4	I	L	L	A
UniRef90_H9U9W0	I	L	L	A
UniRef90_D5WY30	I	L	L	A
UniRef90_A4YDZ0	L	L	L	A
UniRef90_E4RJW6	L	L	L	A
UniRef90_V5FS44	L	L	L	A
UniRef90_UPI000477ABC3	M	L	L	A
UniRef90_MOHD11	L	L	L	A
UniRef90_J4KN14	L	L	L	A
UniRef90_V6Z435	L	L	L	A
UniRef90_G8Z183	I	L	L	A
UniRef90_UPI0002E5B45D	V	L	L	A
UniRef90_A9BH43	I	L	L	A
UniRef90_H3K293	L	L	L	A
UniRef90_M0MDQ0	L	L	L	A
UniRef90_R5X6H0	L	L	L	A
UniRef90_E5YHQ0	I	L	L	A
UniRef90_UPI00047DAEB1	I	L	L	A
UniRef90_UPI0002379657	N	L	L	A
UniRef90_UPI00026C8AD1	I	L	L	A
UniRef90_D6Y0A3	L	L	L	A
UniRef90_D0WH77	L	L	L	A
UniRef90_F8AJ17	I	L	L	A
UniRef90_UPI000313B906	I	L	L	A
UniRef90_F2SER3	L	L	L	A
UniRef90_D8J8C8	M	L	L	A
UniRef90_UPI0003653990	L	L	L	A
UniRef90_M1ZAP7	V	L	L	A
UniRef90_L9Y714	L	L	L	A
UniRef90_K0ZAS6	L	L	L	A
UniRef90_J4GEH0	M	L	L	A
UniRef90_G4L5B6	L	L	L	A
UniRef90_UPI000360BAC9	L	L	L	A
UniRef90_V2X516	L	L	L	A
UniRef90_UPI00037FCC33	L	L	L	A
UniRef90_T0N7U6	L	L	L	A
UniRef90_UPI00040E212F	L	L	L	A
UniRef90_D5XE92	I	L	L	A
UniRef90_R5SXP1	I	L	L	A
UniRef90_V7IDQ4	A	L	L	A
UniRef90_F4LVF2	I	L	L	A
UniRef90_UPI0002DCB115	I	L	L	A
UniRef90_W4F7E0	I	L	L	A
UniRef90_H9UBG0	I	L	L	A
UniRef90_M1ZKE6	I	L	L	A
UniRef90_UPI0004168F05	I	L	L	A
UniRef90_B1L5R6	L	L	L	A
UniRef90_UPI0004045AA5	L	L	L	A
UniRef90_L9XCS8	M	L	L	A
UniRef90_K9I065	L	L	L	A
UniRef90_UPI0003WZQ0	L	L	L	A
UniRef90_U7GI83	L	L	L	A
UniRef90_UPI00044170C8	L	L	L	A
UniRef90_M0ISD4	L	L	L	A
UniRef90_UPI00044498EC	V	L	L	A

QUERY UniRef90_A6TSA4 UniRef90_K2GF64 UniRef90_T0DU23 UniRef90_A0A023CKZ7 UniRef90_COZ6R8 UniRef90_D7CT14 UniRef90_UPI00046F0853 UniRef90_F6B5A8 UniRef90_J9HP82 UniRef90_UPI000377E1BB UniRef90_W1SIC2 UniRef90_W7CTZ3 UniRef90_M5EDK1 UniRef90_D1C910 UniRef90_W7DJW8 UniRef90_UPI0003F60D0F UniRef90_W3AEW4 UniRef90_Q8R8S5 UniRef90_E7GRZ9 UniRef90_D6TVW7 UniRef90_UPI00047284D3 UniRef90_M7NGX0 UniRef90_D2Z646 UniRef90_W4Q7Y9 UniRef90_I6UPX8 UniRef90_UPI00047998C7 UniRef90_D9TSC9 UniRef90_UPI00030AC56B UniRef90_R6J752 UniRef90_UPI00036820DF UniRef90_UPI00047C2B5F UniRef90_S9UMC8 UniRef90_UPI00042726B1 UniRef90_UPI0003616B47 UniRef90_A6CMG9 UniRef90_K6PRF6 UniRef90_G9NKD4 UniRef90_H9U9W0 UniRef90_D5WY30 UniRef90_A4YDZ0 UniRef90_E4RJW6 UniRef90_V5FS44 UniRef90_UPI000477ABC3 UniRef90_MOHD11 UniRef90_J4KN14 UniRef90_V6Z435 UniRef90_G8Z183 UniRef90_UPI0002E5B45D UniRef90_A9BH43 UniRef90_H3K293 UniRef90_M0MDQ0 UniRef90_R5X6H0 UniRef90_E5YHQ0 UniRef90_UPI00047DAEB1 UniRef90_UPI0002379657 UniRef90_UPI00026C8AD1 UniRef90_D6Y0A3 UniRef90_D0WH77 UniRef90_F8AJ17 UniRef90_UPI000313B906 UniRef90_F2SER3 UniRef90_D8J8C8 UniRef90_UPI0003653990 UniRef90_M1ZAP7 UniRef90_L9Y714 UniRef90_K0ZAS6 UniRef90_J4GEH0 UniRef90_G4L5B6 UniRef90_UPI000360BAC9 UniRef90_V2X516 UniRef90_UPI00037FCC33 UniRef90_T0N7U6 UniRef90_UPI00040E212F UniRef90_D5XE92 UniRef90_R5SXP1 UniRef90_V7IDQ4 UniRef90_F4LVF2 UniRef90_UPI0002DCB115 UniRef90_W4F7E0 UniRef90_H9UBG0 UniRef90_M1ZKE6 UniRef90_UPI0004168F05 UniRef90_B1L5R6 UniRef90_UPI0004045AA5 UniRef90_L9XCS8 UniRef90_K9I065 UniRef90_UPI0003WZQ0 UniRef90_U7GI83 UniRef90_UPI00044170C8 UniRef90_M0ISD4 UniRef90_UPI00044498EC

210 220 230 240

G T V T T L K V N V K K E R M F P L P A L K T D T H F M T I A S A E E T L D A A A V
G R V T T L V K V N V K K E R M F P L P A L K T D T H F M T I A S A E E T L D A A A V
A E T V T L V K V N V K K E R M F P L P A L K T D T H F M T I A S A E E T L D A A A V
A T V T Q T F H V T K G H S L K H P L L Q N Q E E G Q I M T I A S V S K E E T L D D A T T
G E V T T V T F H V T K G H S L K H P L L Q N Q E E G Q I M T I A S V S K E E T L D D A T T
G E V T T V R F L D L V K G K A W P L P M L V N N E E G Q I M T I A S V S K E E T L D D A T T
M A V T T V R F L D L V K G K A W P L P M L V N N E E G Q I M T I A S V S K E E T L D D A T T
A K V T T V Q L S V I K G K E I K T P I V E N E H G F A F I V S K P P T L D D A A A D
G E V T T V S E L N V L K G K A W P L P M L V N N E E G Q I M T I A S V S K E E T L D D A A A D
G K V A V S L H V W K G K A W P L P M L V N N E E G Q I M T I A S V S K E E T L D D A A A D
A K I T T V A L T D V I T G E A L S T P V V E N Q E E G F A F I V S K P P T L D D A A A E
G E V T T L K V D L V K G K S I T D P M V E R D D A F Y T T I A S A G S P T L D D A A A K
S Q I T M R L Q V V K N K N W P T P S L I N S E E K L I T I A S A A P T L D D E A S K
G E V T T V K V D L V K G K S I T D P M V E R D D A F Y T T I A S A G S P T L D D A A A K
M T A T L R F Q L H R N Q S D W A T P R Y I L P G K F V T T G F A S A K T L D R E A A R
C D I T T V T V K V I R N K N S L W A T P F L I R D G K L A T T I A S A K T L D D E A A V
G E T T V T V S V V K N R P L P T P M L E N A D A L Y T L L G S A K T L D D E A A A
G R A T T F D V I K G T H S K F P I L Q N A D G F A T I V S A M T L D D E A A V
G K V L L E V I K G L N L K N P V V K T A E V T A T I A S A M T L D D E A A V
G M V T L V R V T V L K D A P F P W P A A I A D D R Y Y A T D G I G P S D L L E A T R
M R A T T V R L L H K D W K K V Q N P H F N T K D R Y Y A T D G I G P S D L L E A T R
G S V T V K F R I L K G D K K L N N P L V R T K D V T A T I A S H P T L D T A V S
G K A T T L E V V K E G A L R H P L L E N K D G I A F L V S K P T L D D E A A K
A T I T R T S L I K G S S R K W P L L E T S E G L S V I V S A G E N L D S A L S
G K A T T V T L D V L K G V Q L S H P M L E N A E V F T Q I A S A P T L D D E A C K
G K V T T V K T E V V L S G S I S E W P I V E T S D A Y Y I L V S E E T L D E D A V R
G K V T T V R F E V L K G L K I N S P I V E T S D A Y Y I L V S E E T L D E D A V R
G A V T T V G L R V L K N L K L N N P L V V K T N E V T A T I A S A S N E S I L E K A I E
G E V T T V T L R E L I K A K S I N N P A L E N D Q F I S T I A S A L T L D D E A I Q
G R V C L Q V E V L K D R K L A R P M L E T P D A V Y T L A S R A D I Q E A I Q
G E I Q V T V E V I K Q C C D L P L F I E T D E L Y V A I L G S A P T L D D E A A T
A K I E V S I E L I D N L T L E N P I I E T D E A Y Y T I A S A L T L D D E A A Q
A R T V T T L D V I K G T S I L P Y P F V Q N K E G I A S I V S A K P T L D D E A A R
G T A V V T L D V I K G T S I L N Y P L L V N D E G I A F L V S A P E T L D D E A V R
G E V T L K L T E V I P A Y Q K P Y P V V V T S K E V M A V A S C K E T V D E A W Q
G E V T T L R E V V K G S I P Y P F V E T S E G L A V I V S K E T V D E A A K
M Q V A C R F R I R R D L R L D E P A F I L V P G Y F V T T G I S D D L M E A S R
M Q V T L R L S I R K N M N W T L T Q A E D Q G Y Y A V I G V D S D L L K A A Q
G K V T A R I F V K K G L E L R N P M V I S E G S L L T L A S A R T L D D E A M K
G K V T V K I F H V K G L T W P T M V V D A G E R V M T L A S A A T L D D E A A V
M D V T I K V T L H K N A G I T Q P L F E T P E Y L A Y P G I D P N L W E A A K
G E V T V K R F D L K D K E L S D P M V E T D D A F Y T I A S E V S L D H A A Q
M R A T L R F T V C K D Y S W E T P S L A D K G R Y S V M G I D A D L L Q A T K
M K I I Y E V E V I K G G R I S E P Q Y E T S E Y Y A V T G F A E T V D E A A K
M F V T A R F D L K G K S I L S Q P E F E T S G G E F T P T G M D L M V E A T K
M R A R L R F T L E K D R P V W V Q P Y A D R G Q E Y A V M G I D P D L R E A A R
A V I D I T V D V L K E C S Y P L P L V I E T E D K W I T I G S R P S M E E A T K
G E V T V R V T P M E G K L E W P L L E T E D S F Y L I V S D E N L D K A I E
G A A T V Q L E V L K G E N I L E Q P L L E N K D S F T Q I A S A L T L D D E A S K
A E V S V S F N I I K D K N W K L P M V K T E K N I Y T L A S K P S L D E A S I
M R I A L R F D L R K S A M I P R P A F E V P G F F A T T G I A P D L M L A A K
M F V T A R F D V R S E A M E I E R Q P Q F R T E G P F T P T G V D E D L M T A T K
G E V T V K V T V L K D A I M P T P F L K T N S E Y I T I A A G K T L D D E A S S
G E V V N L S V I K G H P L P T P M M S T A D A L Y T L A S A A T L D D E A A Q
G E V E T K I S V I K G T S I P R P M M V E T D D S W Y S V A S D E D T Q R A I Q
M D V A L K V D L I K G E N L P P P R F E T N G Y K A T T G I G E D L M Q A A R
S L V T I E V H I L K N S T L P T P L L V N S E K Y I M T L S S F P S L D D E A S V
M H L K L S F L H K K G K M I Q E P R F E T P G Y Y V T T G H S A S D L M D A S K
G F A T V T L T A L P E L S L K N P V I E N A T H F G T I A S A A T M D E A A E
G R V K V K V D V L D G V L L E W P L L E T A D A Y Y I L V S M E K L D D A I R
G E V T V K V D V L K N P V N L L P L L V E G N H V M T I A S A K T L D D E A A K
L T A S L R L T V V K N Q P W T S P Q F Q T P G E Y A T M G I D C D L L E A T R
M F V T A R F G L K K D A G F A Q P Q L E T T G P F T T T G I S D D L M E A T K
M N G T I K L K V R K D L H L S A P I A D T S T D I I T M G F G N D D L D E A L E
A E V T L E V K L I K N K T I E W P I I E T D K Y T M V V A S G D D L D D A L Y
M T V T C R F T L R S D L S I D Q P Q F E T T G P F T T T G I A D D L Q E A A R
G H A T V T L T A L P D L S I D T P L I E N E T E F G V I Y S A E T L D A A A D
T K V S V T L T V L K D K P Y Q T P H F R T E E Y Y C T T G V D P D I R E A T R
M Y A S L K F T V I K E K S I P S P Q F Q T D D F Y G T T G V G P D L M Y A G A Q
M H V T L R F G L V K G A G L K T P R F S T P G Y H V T T G I G P P D I Y A A A Q
M Q V Q V R L T A V K D R P Y K T P H Y Q T G P Y Y G I T G V G P D I K E A T K
M K V I K I N L I K N Q F I P S P Q Y E T N G S F V T T G I G P P D L M D G V K
G S V K V L E V V K G L K I N N P V L E N I E S F T T I A S E I N L E M D A V N
M D I D L S F K L H K G K Q I A E P Q F E T P G P Y V T T G H A E D L L T A V K
A Q V T V R V E V L K N F S V K E P V V M N D E I T A F I A S A A E T L D E A V T
G R A T V H V V R N Q Y C P Y P M I E T E D R L I T I A S A A E D V E G A W R
G A V E V D V S V I K G C P Y P L P L A V T A D D C Y T I A S S P D L D Q A A E
G E V T M K L D L I K D F L L E W P V L E T D N A W Y V I A S D D K F E S A L K
G R V T M K L S K I S G K Q I S S P I L E T E N Q A Y F Q F I A S S G D T L D K A I K
G A A T V T L E V L K G E T I E Q P L L E N E E V F T Q I A S A K T L D D E A S R
G E V R T V V R V R K N L S L K N P M V V S E G I V F T L V S S K T L D D E A V K
G E V T L E L N V I K N K S I L W P I V E T E E Y T M V I A S G D T L D E A A Y
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M F V T A R F D L Q K D A E I E Q P Q F E T D G P F T T T G I D D D L M E A A R
I K V T M R K V T V C K D R P L R T P H F M S E E F Y C V T I G P D L M R E A T R
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250 260 270 280

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T I E L G S R G L A T V N A G A G V M R D Y I E K R C V K M F D V D E H H T T N
D L S P A S F G V N S V W P G G G G I P D A V T T R E T F V Y R Y D T R M T A
D I E W G F T G I F A Q E N G G G F L T Q H F P K A A K A I W D F Q Y T Q S R H
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V V E S T Y E T T K W G F D S N L P D V V Q I E S G D V V S Y N T W S H F L N
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K W G V K V P L R L H L G S M G V A P S E D V V D S I P P P S Y F G G N I D D R N
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G Q E F K V G L S P F L G L M G V A P E A G S F P T K P P G Y F G G N I D I K E
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I P G V R F P G L I H P G L I G T A P S K E L L D I W N A R E
I P G V R F P G L I H P G L I G T A P S K E L L D I W N A R E
T V P P R E H G G N H D I K D
T V P P R E H G G N H D I K D
I P G V K Y T G I V H P G L M G T A P S A Q L L A K W N R R E
A A V L H H R P M P K E A L L G A I S P K E A A R P I P G R E N G G N C D I K N
G K N G R V P L K P F A G T I G N A L A E K G H H S V V P P R R V G G
V P D V R Y E G K I H P G L I G T A P S R E L L E E W N S R E
V P D V R Y E G K I H P G L I G T A P S R E L L E E W N S R E
I P G V R F P G L T H P G I I G T A P S K E L L T I W N
G Y G A R F P L A P F L G L T G V A T A S E E P H S V P P G R H G G N M D I R Y
G V I S R M R P F L G Q L G T L P S I K M P D S H N A G D F D G H M D I N R
I K D V S F G R P Q C G V I G T A P S H E G A R T K P A R E H G G N D A G S R
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D G L A A H M Q P F L G N I G T L P S R D I P D S H N A G D F D G H M D T N S
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F E G L D V P I E P V I G T I G V A T A E E T I S T P D H G G N L D T T D
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G V I A R M R P F L G Q L G T L P S K R M P D S H N A G D F D G H M D V N R
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G L A S R M R P F L G N I G T A P S R D L P D S H N A G D F D G H M D T N S
F T N Q S I K L T P S I G C I R C D E N D K I S S L E C D E Y G G N L D F I K
P F I G N I G T V P A I D M P V S H N A G D F D G H M D I N R
P F I G N I G T V P A V D R P D S H N A G D F D G H M D I A R E
P W G G E L D M Q P F F V G V M A T A P V G Q Q S I P P R E F D G G M D C K E
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D E G L T V P R E A M P G V M G T C P S K A M P D S H N A G D F D G H M D I D A
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L P G T A T R L R P F I G Q L G T T P A R P L P D S H N A G D F D G H M D I N K
P G V S R M I P F V G Q L G V M P T R Q I P D S H N A R D F D G H M D L N R
L K N V K I R A E P F L G V I G T A P A E G E Y G M I P Q Y F G G
P G V M A R V R P F L G Q L G T T P S H P I P D S H N A G D F D G H M D I N R
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D L G H T V A V A P F L G V I G V P A E P G H P T T
R L R P F I G N V G T T P P V E L P D S H N A G D F D G H M D I P E
R L R P F L G Q L G T T P A R P F P D S H N A G D F D G H M D I N R
S A G V M V R M R P F L G Q L G T C P S K A M P D S H N A G D F D G H M D I D A
V A T R L R P F L G Q L G T T P S I A M P D S H N A G D F D G H L D V N T
P G T L V R M R P F L G Q L G T C P S K A M P D S H N A G D F D G H M D I D A
P F I G N I G T T P H V E L P D S H N A G D F D G H L D S N D
A P G A I A R I R P F L G Q L G T T P S R P I P D S H N A G D F D G H M D I N R
G L A M L A D P E D A V P T D P V A E G M R T L P P R E N C G N V M D A K Q
R V R P F L G Q L G T T P S R P I P D S H N A G D F D G H M D I N R
G T M A R M R P F L G Q L G T T P S R P T P D S H N A G D F D G H L D V N R
R L R P F L G Q L G T T P S I P I P D S H N A G D F D G H M D I N K
P G V P A R V I P M I G N I G T V P A M D M P D S H N A G D F D A H M D V N E
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	170	180	190	200
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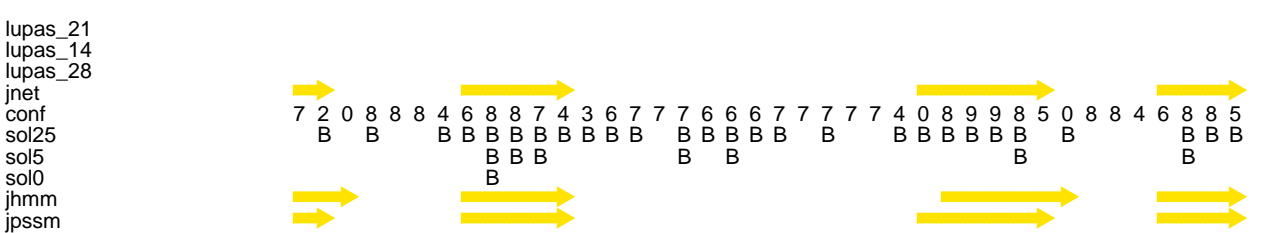
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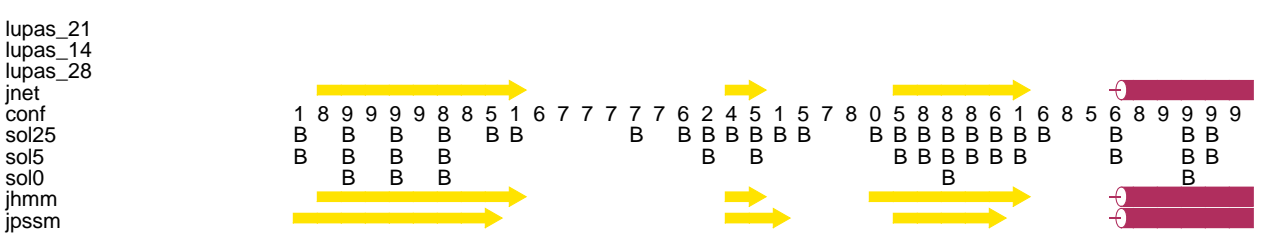
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UniRef90_UPI00047A09DC I Q V T F L A P L A K L D A V G L
UniRef90_GOLKE2 V Q L S M L T P I D L L E S V G L
UniRef90_UPI0003014A83 V T V T F L A P I D R L E R A G I
UniRef90_W4L7V2

UniRef90_D6XUC3 V T V T F L V P L H A L E K L
UniRef90_M3FA92 V T V T F L A P E P Y L T K T G L
UniRef90_UPI00041B34B7 V T V T F L A P I D T L K K A G L
UniRef90_E4RNB7 V N I T I L T P I S K L K E I N L
UniRef90_UPI0002E7C073 V T V T F L A P K T H L R Q A G L

	90	100	110	120																																															
UniRef90_K2GF55																																																			
UniRef90_H3NKS8																																																			
UniRef90_UPI0004648E47																																																			
UniRef90_M0JS69																																																			
UniRef90_UPI0003B5FF07																																																			
UniRef90_W3ABU4																																																			
UniRef90_E7QVP5																																																			
UniRef90_U1P2J7																																																			
UniRef90_X0W4Y5	S	I	E	I	P	P	F	G	S		P	N	G	G	P	F	F	E	G	M	G	D	P	V	P		L	E	Y	S	D	G	L	F	H	Y															
UniRef90_M0MT96																																																			
UniRef90_M0LGE5																																																			
UniRef90_V4XZF3																																																			
UniRef90_G2MFV3																																																			
UniRef90_D1AB49	A	L	G	R	R	D	G	R		H	A	P	G	A	H	P	G	V	I	G	C						A	P	A	P	H	S	V	R	R	A	R	R	S	P	V	S									
UniRef90_H3ZQ98																																																			
UniRef90_C6A4X7																																																			
UniRef90_M0IL18																																																			
UniRef90_W0JJ06																																																			
UniRef90_M0DC93																																																			
UniRef90_D3FEY5																																																			
UniRef90_B5Y871																																																			
UniRef90_UPI0003657744	D	V	Q	P	R	P	V	F	G	S	N	A	A	A	W	W	G	F	H	Y	D	Q	I	T	E	P	R	V	T	I	Y	E	I	D	H																
UniRef90_L0IDL6																																																			
UniRef90_R4W773																																																			
UniRef90_UPI0004668152	G	V	G																																																
UniRef90_UPI0003B799D4	D	I	V	P	R	R	V	F	G	S	S	V	A	A	W	W	G	Y	H	Y	K	E	F	H	E	A	V	T	I	Y	E	I	F	A	D	E	A	A	P	Y											
UniRef90_F4HLJ8																																																			
UniRef90_UPI00037F189B	G	I	G	R	A	D	G	R	P	V	R	S	G	H		P	G	V	I	G	C	A	P	D	A	A	A	L	H																						



		210		220		230		240																																	
UniRef90_K2GF55	G	I	V	S	L	E	V	E	V	M	K	G	V	N	L	E	G	P	I	L	L	P	V	E	E	V	S	F	V	G	S	G	A	T	L	N	D	A	T	T	
UniRef90_H3NKS8	G	V	V	Q	L	R	V	E	V	T	K	N	L	N	N	Q	G	P	I	L	L	P	S	L	P	I	S	F	I	G	T	G	A	S	L	N	E	A	T	S	
UniRef90_UPI0004648E47	A	E	V	I	I	E	V	H	V	I	K	G	L	T	L	D	G	P	I	L	L	P	I	H	P	L	Q	V	V	G	T	G	K	N	L	N	E	A	V	D	
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UniRef90_W3ABU4	G	L	V	H	L	E	V	E	L	I	K	G	L	N	N	A	G	P	L	L	L	P	N	D	K	W	N	V	P	Q	L	E	E	S	L	P	V	S	L	N	
UniRef90_E7QVP5	G	R	A	E	F	E	V	E	V	I	K	G	L	D	I	D	G	P	L	L	L	P	N	E	E	I	Q	V	V	G	S	G	A	T	I	N	D	A	T	D	
UniRef90_U1P2J7	G	T	V	T	M	D	V	E	V	I	D	G	L	E	L	D	G	P	M	L	L	P	N	E	P	F	I	S	K	P	Y	S	D	E	E	R	E	A	G	R	
UniRef90_X0W4Y5	A	R	I	Q	V	R	V	E	R	S	Q	G	W	Y	V	D	W	P	L	I	E	T	K	D	E	I	M	V	I	C	S	D	T	N							
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UniRef90_M0LGE5	G	T	V	R	M	D	V	E	V	I	K	G	L	D	L	D	G	P	L	L	L	P	N	E	E	I	Q	V	I	G	S	G	A	T	I	N	E	A	T	E	
UniRef90_V4XZF3	G	R	T	T	L	R	V	E	V	I	D	G	L	D	V	D	G	P	L	L	L	P	N	E	H	V	A	R	P	Y	S	D	E	D	V	R	D	A	L	P	
UniRef90_G2MFV3	G	T	V	T	M	D	V	E	V	I	E	D	L	D	I	D	G	P	L	L	L	P	N	E	A	D	L	P	F	I	S	K	P	Y	T	D	E	A	G	R	
UniRef90_D1AB49	G	W	I	D	L	R	V	N	L	T	K	R	G																												
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UniRef90_W0JJ06	G	T	V	R	M	D	V	E	V	I	E	G	L	E	L	D	G	P	L	L	L	P	N	E	P	L	Q	V	I	G	S	G	E	T	V	N	D	A	T	Q	
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UniRef90_D3FEY5	G	T	V	T	L	Q	V	E	V	V	K	G	L	G	I	D	G	P	I	L	L	P	S	L	P	I	S	V	I	G	T	G	P	D	L	N	S	A	T	D	
UniRef90_B5Y871	G	I	A	T	V	Q	V	K	V	L	K	G	V	T	V	E	G	P	I	I	V	P	N	E	P	M	A	K	P	F	T	D	E	E	M	D	A	A	Y	V	
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UniRef90_L0IDL6	G	T	V	E	M	D	V	E	V	V	E	G	L	E	A	D	L	P	F	I	S	K	P	Y	S	D	A	E	R	E	T	G	R	D	L	A	D	A	H	R	
UniRef90_R4W773	G	H	A	E	F	E	V	E	V	I	D	G	L	D	L	D	L	P	H	I	A	E	P	G	P	I	Q	V	I	G	S	G	A	T	V	N	D	A	T	Q	
UniRef90_UPI0004668152	G	W	I	D	L	R	V	N	L	T	R	R	G																												
UniRef90_UPI0003B799D4																																									
UniRef90_F4HLJ8	S	E	T	T	V	R	V	S	V	L	K	N	L	R	L	E	G	P	I	L	L	P	P	E	P	I	Q	I	I	G	S	G	P	T	I	N	D	A	A	L	
UniRef90_UPI00037F189B	G	W	I	D	L	R	V	N	L	T	R	R	G																												



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UniRef90_M0JS69
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250 260 270 280

NGMERA A K A F G I D V P E V M N R A T I T G S I E I G R H P G V
NGLER A A D F L G I T V P E V M N R A T V T G A I E I G R L P G V
NGLMR M V S L T G M M L P E V R N R C T L T G Q V D I G R L P G V
N A F A R A G T L F G M S E G E V R A R C T F T G G V E I A R L P G V
NGLK R A A D L F D V T V P E I M N R A T M L G A I E I G R H P G I
A A T D N G L E R A A A L F D V T V P E I M N R A T I T G S I E I G R H P G V
N A F E R A G A L L D M T E G E V R A R C T F T G G V E I G R L P G V
D A T Q N A F D R A T Q L F D M S E G E I R A R C T F T G G V Q I G R L P G V

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

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

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

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

