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

QUERY UniRef90_M4X0Z0 UniRef90_Q2Y8Z3 UniRef90_N1QEK3 UniRef90_C4ZM78 UniRef90_E4U3F6 UniRef90_W3XJJ6 UniRef90_Q39TS0 UniRef90_F6ILX7 UniRef90_S8C7C5 UniRef90_Q2G889 UniRef90_M7WVS4 UniRef90_M7WSH2 UniRef90_UPI0003B56D60 UniRef90_V5F823 UniRef90_R1EU50 UniRef90_S7Q4Y0 UniRef90_L2FMT8 UniRef90_UPI0003787152 UniRef90_K1WTF3 UniRef90_T0G7T9 UniRef90_UPI00035ECD0B UniRef90_UPI00035F7457 UniRef90_A4XDW3 UniRef90_D8K6X1 UniRef90_B2AS11 UniRef90_UPI00034CD283 UniRef90_Q5P348 UniRef90_E5AM77 UniRef90_UPI000360DE8F UniRef90_UPI0002E81831 UniRef90_S61Z6 UniRef90_Q2W2Y6 UniRef90_F4GW60 UniRef90_H5WM67 UniRef90_J2IBZ8 UniRef90_E8TRD7 UniRef90_B7QA60 UniRef90_UPI0002740DA1 UniRef90_Q94AX4 UniRef90_A6WZS9 UniRef90_B8KTW7 UniRef90_UPI000309BDF2 UniRef90_F9G6N5 UniRef90_I4YVK1 UniRef90_G3NCK9 UniRef90_C7DR05 UniRef90_UPI00016A825E UniRef90_M4ZP49 UniRef90_T0LAP3 UniRef90_K2LST4 UniRef90_W9S121 UniRef90_UPI00046B4E4B UniRef90_F6CMD0 UniRef90_A5WHZ7 UniRef90_K6DR09 UniRef90_UPI0003C13D8C UniRef90_V9FEQ6 UniRef90_A7SQV7 UniRef90_Q2CIX0 UniRef90_V2YR11 UniRef90_UPI000420B5F9 UniRef90_G7Q7R4 UniRef90_B9SDP2 UniRef90_G7XFT2 UniRef90_K2K371 UniRef90_UPI000394315E UniRef90_UPI000463289D UniRef90_I0JRU6 UniRef90_UPI000333F4A8 UniRef90_G9MQT4 UniRef90_M9Z568 UniRef90_K4LEH8 UniRef90_UPI000463612B UniRef90_W9CQV3 UniRef90_L7MEY5 UniRef90_D4D4N8 UniRef90_UPI0003B77812 UniRef90_G6EGQ9 UniRef90_W9WAC9 UniRef90_F1P277 UniRef90_F6IEQ0 UniRef90_UPI0004409614 UniRef90_UPI0002EFF53B UniRef90_UPI00046A503C UniRef90_H1V603 UniRef90_UPI000347F197 UniRef90_UPI000289E9FB UniRef90_UPI000464E4E3 UniRef90_UPI00035D18E1 UniRef90_K9H754 UniRef90_F4Q4J3

130 140 150 160

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

QUERY		170	180	190	200
UniRef90_M4X0Z0	G	S	E	T	D
UniRef90_Q2Y8Z3	G	S	E	T	L
UniRef90_N1QEK3	G	S	D	D	A
UniRef90_C4ZM78	G	S	E	T	L
UniRef90_E4U3F6	G	K	H	T	L
UniRef90_W3XJ16	G	G	D	E	A
UniRef90_Q39TS0	P	S	E	C	D
UniRef90_F6ILX7	G	S	E	A	L
UniRef90_S8C7C5	G	R	D	A	R
UniRef90_Q2G889	G	K	T	A	L
UniRef90_M7WVS4	G	K	D	A	E
UniRef90_M7WSH2	G	R	D	A	V
UniRef90_UPI0003B56D60	G	A	D	A	T
UniRef90_V5F823	G	A	A	L	D
UniRef90_R1EU50	G	G	E	V	V
UniRef90_S7Q4Y0	G	K	D	A	G
UniRef90_L2FMT8	G	S	A	V	W
UniRef90_UPI0003787152	G	A	D	V	L
UniRef90_K1WTF3	G	R	A	L	E
UniRef90_T0G7T9	G	A	E	F	V
UniRef90_UPI00035ECD0B	G	A	D	A	T
UniRef90_UPI00035F7457	G	A	D	A	L
UniRef90_A4XDW3	G	G	E	D	V
UniRef90_D8K6X1	G	R	E	L	Y
UniRef90_B2AS11	R	L	A	D	C
UniRef90_UPI00034CD283	R	L	A	D	C
UniRef90_Q5P348	Q	R	L	A	D
UniRef90_E5AM77	R	L	A	D	C
UniRef90_UPI000360DE8F	R	L	A	D	C
UniRef90_UPI0002E81831	R	L	A	D	C
UniRef90_S61Z6	R	L	A	E	C
UniRef90_Q2W2Y6	R	L	A	E	C
UniRef90_F4GW60	R	L	A	E	C
UniRef90_H5WM67	S	K	D	V	L
UniRef90_J2IBZ8	A	E	M	R	A
UniRef90_E8TRD7	R	L	A	D	C
UniRef90_B7QA60	Q	R	L	P	E
UniRef90_UPI0002740DA1	R	L	A	E	L
UniRef90_Q94AX4	R	L	A	E	L
UniRef90_A6WZS9	R	L	A	E	C
UniRef90_B8K7W7	R	L	A	E	C
UniRef90_UPI000309BDF2	R	L	A	E	C
UniRef90_F9G6N5	G	E	T	V	L
UniRef90_I4YVK1	R	L	A	E	C
UniRef90_G3NCK9	R	L	P	Q	V
UniRef90_C7DR05	C	L	P	D	L
UniRef90_UPI00016A825E	R	L	A	D	C
UniRef90_M4ZP49	R	L	A	D	C
UniRef90_T0LAP3	R	L	A	D	L
UniRef90_K2LST4	R	L	A	E	L
UniRef90_W9S121	H	L	A	E	L
UniRef90_UPI00046B4E4B	R	L	P	E	L
UniRef90_F6CMD0	K	N	V	P	A
UniRef90_A5WHZ7	R	L	A	E	C
UniRef90_K6DR09	Q	I	P	A	M
UniRef90_UPI0003C13D8C	R	L	A	D	V
UniRef90_V9FEQ6	K	L	A	D	V
UniRef90_A7SQV7	K	L	P	E	I
UniRef90_Q2C1X0	R	L	A	E	A
UniRef90_V2YR11	R	L	P	E	L
UniRef90_UPI000420B5F9	K	R	L	P	E
UniRef90_G7Q7R4	N	G	A	A	G
UniRef90_B9SDP2	R	L	A	E	L
UniRef90_G7XFT2	R	L	P	D	I
UniRef90_K2K371	R	L	A	E	C
UniRef90_UPI000394315E	R	L	P	D	V
UniRef90_UPI000463289D	R	L	A	D	C
UniRef90_I0JRU6	K	I	P	E	L
UniRef90_UPI000333F4A8	R	L	P	E	I
UniRef90_G9MQT4	R	L	A	D	I
UniRef90_M9Z568	K	L	P	Q	L
UniRef90_K4LEH8	A	I	P	E	M
UniRef90_UPI000463612B	R	L	A	E	C
UniRef90_W9CQV3	R	L	P	E	L
UniRef90_L7MEY5	R	L	P	E	L
UniRef90_D4D4N8	R	L	P	D	I
UniRef90_UPI0003B77812	R	L	A	E	A
UniRef90_G6EGQ9	G	A	I	L	A
UniRef90_W9WAC9	R	L	P	D	I
UniRef90_F1P277	R	L	A	E	C
UniRef90_F6IEQ0	R	L	A	E	C
UniRef90_UPI0004409614	R	L	P	D	L
UniRef90_UPI0002EFF53B	Q	R	V	A	N
UniRef90_UPI00046A503C	R	L	A	D	A
UniRef90_H1V603	R	L	A	E	I
UniRef90_UPI000347F197	K	I	P	D	M
UniRef90_UPI000289E9FB	A	L	A	D	A
UniRef90_UPI000464E4E3	K	L	P	D	A
UniRef90_UPI00035D18E1	R	L	A	D	C
UniRef90_K9H754	K	A	L	P	E
UniRef90_F4Q4J3	R	L	S	D	I

QUERY UniRef90_M4X0Z0 UniRef90_Q2Y8Z3 UniRef90_N1QEK3 UniRef90_C4ZM78 UniRef90_E4U3F6 UniRef90_W3XJ16 UniRef90_Q39TS0 UniRef90_F6ILX7 UniRef90_S8C7C5 UniRef90_Q2G889 UniRef90_M7WVS4 UniRef90_M7WSH2 UniRef90_UPI0003B56D60 UniRef90_V5F823 UniRef90_R1EU50 UniRef90_S7Q4Y0 UniRef90_L2FMT8 UniRef90_UPI0003787152 UniRef90_K1WTF3 UniRef90_T0G7T9 UniRef90_UPI00035ECD0B UniRef90_UPI00035F7457 UniRef90_A4XDW3 UniRef90_D8K6X1 UniRef90_B2AS11 UniRef90_UPI00034CD283 UniRef90_Q5P348 UniRef90_E5AM77 UniRef90_UPI000360DE8F UniRef90_UPI0002E81831 UniRef90_S61Z6 UniRef90_Q2W2Y6 UniRef90_F4GW60 UniRef90_H5WM67 UniRef90_J2IBZ8 UniRef90_E8TRD7 UniRef90_B7QA60 UniRef90_UPI0002740DA1 UniRef90_Q9AX4 UniRef90_A6WZS9 UniRef90_B8KTW7 UniRef90_UPI000309BDF2 UniRef90_F9G6N5 UniRef90_I4YVK1 UniRef90_G3NCK9 UniRef90_C7DR05 UniRef90_UPI00016A825E UniRef90_M4ZP49 UniRef90_T0LAP3 UniRef90_K2LST4 UniRef90_W9S121 UniRef90_UPI00046B4E4B UniRef90_F6CMD0 UniRef90_A5WHZ7 UniRef90_K6DR09 UniRef90_UPI0003C13D8C UniRef90_V9FEQ6 UniRef90_A7SQV7 UniRef90_Q2CIX0 UniRef90_V2YR11 UniRef90_UPI000420B5F9 UniRef90_G7Q7R4 UniRef90_B9SDP2 UniRef90_G7XFT2 UniRef90_K2K371 UniRef90_UPI000394315E UniRef90_UPI000463289D UniRef90_I0JRU6 UniRef90_UPI000333F4A8 UniRef90_G9MQT4 UniRef90_M9Z568 UniRef90_K4LEH8 UniRef90_UPI000463612B UniRef90_W9CQV3 UniRef90_L7MEY5 UniRef90_D4D4N8 UniRef90_UPI0003B77812 UniRef90_G6EGQ9 UniRef90_W9WAC9 UniRef90_F1P277 UniRef90_F6IEQ0 UniRef90_UPI0004409614 UniRef90_UPI0002EFF53B UniRef90_UPI00046A503C UniRef90_H1V603 UniRef90_UPI000347F197 UniRef90_UPI000289E9FB UniRef90_UPI000464E4E3 UniRef90_UPI00035D18E1 UniRef90_K9H754 UniRef90_F4Q4J3

QUERY	V	A	Q	S	Y	G	P	V	K	R	R	K	L	E	H	A	I	K	R	A	V	D	P	N	N	I	L	A	P	G	R	S	G	I	D	L	N	N	D	F	
UniRef90_M4X0Z0	V	A	D	S	Y	G	P	V	K	R	R	K	L	E	H	A	I	K	R	A	V	D	P	N	N	I	L	A	P	G	R	S	G	I	D	L	N	N	D	F	
UniRef90_Q2Y8Z3	V	A	E	K	T	Y	D	H	A	Q	L	R	L	R	H	K	E	K	K	K	A	L	D	P	N	N	G	I	L	A	P	G	K	S	G	I	D	L	D		
UniRef90_N1QEK3	I	A	E	K	T	Y	D	H	A	Q	L	R	L	R	H	K	E	K	K	K	A	L	D	P	N	N	G	I	L	A	P	G	K	N	G	I	R	W	P	K	
UniRef90_C4ZM78	V	A	E	K	T	Y	D	H	A	Q	L	R	L	R	H	K	E	K	K	K	A	L	D	P	N	N	G	I	L	A	P	G	R	S	G	I	S	I			
UniRef90_E4U3F6	V	A	E	K	T	Y	D	H	A	Q	L	R	L	R	H	K	E	K	K	K	A	L	D	P	N	N	G	I	L	A	P	G	K	N	G	I	S	I			
UniRef90_W3XJJ6	L	A	G	T	Y	D	G	N	A	Q	M	K	L	F	N	E	K	L	K	N	A	L	D	P	N	N	G	I	L	A	P	G	K	N	G	I	V	W	P	A	N
UniRef90_Q39TS0	A	A	N	T	Y	G	P	E	M	R	K	L	H	R	T	L	K	K	A	L	D	P	N	N	G	I	L	A	P	G	K	S	G	I	N	L	D	I	P	L	
UniRef90_F6ILX7	I	A	R	T	Y	D	G	A	L	N	W	L	H	H	R	K	D	V	L	K	D	A	V	D	P	N	N	G	I	L	A	P	G	K	Q	K	G	I	W	P	K
UniRef90_S8C7C5	I	A	S	T	Y	G	D	A	L	N	K	F	H	C					K	D	A	V	D	P	N	N	G	I	L	A	P	G	R	N	G	I	W				
UniRef90_Q2G889	I	A	G	T	Y	G	D	A	L	N	K	F	L	S	Q	R	L	K	K	A	L	D	P	S	G	I	L	A	P	G	K	S	G	I	W	S	D				
UniRef90_M7WVS4	V	A	E	K	T	Y	D	H	A	Q	L	R	L	R	H	K	E	K	K	K	A	L	D	P	N	N	G	I	L	A	P	G	K	S	G	I	W	P	K		
UniRef90_M7WSH2	L	M	A	T	Y	D	G	A	F	R	K	L	F	C	E	Q	L	K	D	S	L	D	P	N	N	G	I	L	A	P	G	R	S	G	I	W	P	K	D		
UniRef90_UPI0003B56D60	A	A	A	L	Q	G	P	V	R	M	N	V	N	R	T	L	K	R	A	L	D	P	N	N	G	I	L	A	P	G	K	S	G	I	H	L					
UniRef90_V5F823	V	A	K	Q	Y	G	G	A	L	M	R	L	N	E	R	L	K	K	D	T	L	D	P	N	N	G	I	L	A	P	G	K	Q	K	G	I	W	P	K		
UniRef90_R1EU50	V	A	D	L	Y	D	H	A	Y	R	R	F	V	E	K	L	K	D	S	L	D	P	N	N	G	I	L	A	P	G	K	Q	K	G	I	W	P	K			
UniRef90_S7Q4Y0	V	A	K	T	Y	N	G	A	I	M	K	F	N	E	Q	L	K	D	A	L	D	P	N	N	G	I	L	A	P	G	R	S	G	I	W	P	K	D			
UniRef90_L2FMT8	V	A	D	T	Y	D	G	A	L	N	K	F	H	E	E	T	H	D	N	L	D	P	N	N	G	I	L	A	P	G	R	S	G	I	V	W	P	K	D		
UniRef90_UPI0003787152	V	A	D	Q	F	D	H	A	L	L	R	F	N	E	E	T	H	D	N	L	D	P	N	N	G	I	L	A	P	G	K	S	G	I	W	P	K	E			
UniRef90_K1WTF3	N	A	E	N	Y	D	H	A	Y	R	R	F	V	E	K	L	K	G	A	V	D	P	N	N	G	I	L	A	P	G	K	Q	K	G	I	W	P	E			
UniRef90_T0G7T9	T	A	E	A	Y	G	P	A	Q	R	L	N	R	R	L	K	N	A	L	D	P	H	G	I	L	A	P	G	K	S	G	I	V								
UniRef90_UPI00035ECD0B	E	M	D	R	R	E	V	V	P	S	D	V	L	N	R	R	L	K	A	V	L	D	P	D	G	I	L	A	P	G	R	Y	G	I	W	P					
UniRef90_UPI00035F7457	V	A	A	T	Y	G	H	A	V	R	R	L	G	E	R	I	K	D	A	L	D	A	E	G	I	L	A	P	G	K	H	G	I	W	P						
UniRef90_A4XDW3	V	A	K	T	Y	E	K	G	G	R	A	L	H	A	R	V	K	Q	A	L	D	P	N	S	I	L	A	P	G	K	I	F	A								
UniRef90_D8K6X1	I	S	H	P	L	S	S	A	F	W	D	T	V	K	A	L	K	T	T	L	D	P	N	G	I	L	A	P	G	R	Y	G	I	W							
UniRef90_B2AS11	V	A	S	K	L	D	S	F	A	F	G	K	F	V	Q	T	L	K	D	T	F	D	P	N	N	G	I	L	A	P	G	K	S	G	I	W					
UniRef90_UPI00034CD283	L	V	A	E	H	G	A	D	V	D	T	M	R	A	I	K	H	A	L	D	P	R	N	L	M	N	P	G	K												
UniRef90_Q5P348	L	V	A	E	H	G	A	D	V	D	T	M	R	A	I	K	H	A	L	D	P	H	N	L	M	N	P	G	K												
UniRef90_E5AM77	L	V	D	E	H	G	A	D	V	D	T	M	R	A	I	K	H	A	L	D	P	H	N	L	M	N	P	G	K												
UniRef90_UPI000360DE8F	L	R	E	T	E	H	G	D	A	L	D	V	M	R	S	I	K	K	A	L	D	P	A	N	L	M	N	P	G	K											
UniRef90_UPI0002E81831	L	R	T	E	T	E	H	G	A	V	D	M	M	R	T	I	K	K	A	L	D	P	H	N	L	M	N	P	G	K											
UniRef90_S61Z6	M	A	V	E	H	G	A	N	A	V	S	V	M	Q	A	I	K	A	A	L	D	P	K	Q	L	M	N	P	G	K											
UniRef90_Q2W2Y6	L	E	E	E	Y	G	E	A	L	D	V	M	R	A	V	K	R	A	L	D	P	A	G	I	L	M	N	P	G	K											
UniRef90_F4GW60	M	L	S	E	H	G	Q	D	A	L	D	L	M	S	S	L	K	L	A	F	D	P	H	N	L	M	N	P	G	K											
UniRef90_H5WM67	V	F	E	N	A	P	Q	A	L	H	L	N	N	R	I	K	S	A	L	D	P	N	G	V	V	A	P	G	R	Y	G	I	G								
UniRef90_J2IBZ8	L	V	D	E	T	G	A	G	A	V	D	V	M	R	A	I	K	K	A	L	D	P	K	N	L	M	N	P	G	K											
UniRef90_E8TRD7	L	V	D	E	T	G	A	G	A	V	D	V	M	R	A	I	K	K	A	L	D	P	K	N	L	M	N	P	G	K											
UniRef90_B7QA60	L	V	E	E	L	G	E	D	G	V	A	L	L	R	R	L	K	N	A	V	D	P	K	N	L	M	N	P	G	K											
UniRef90_UPI0002740DA1	L	Q	E	E	V	G	T	V	I	E	I	E	T	M	R	Q	L	K	A	T	L	D	P	R	G	L	M	N	P	G	K										
UniRef90_Q94AX4	L	E	K	E	L	G	I	E	A	L	Q	T	M	K	R	I	K	K	T	L	D	P	R	N	D	I	M	N	P	G	K										
UniRef90_A6WZS9	L	A	M	E	L	G	E	A	T	D	Y	M	R	T	I	K	K	A	L	D	P	D	N	I	M	N	P	G	K												
UniRef90_B8KTW7	M	L	S	E	F	G	A	A	T	L	G	A	M	Q	A	I	K	T	A	L	D	P	H	G	I	L	M	N	P	G	K										
UniRef90_UPI000309BDF2	L	V	I	E	H	G	A	P	A	L	E	V	M	H	T	L	K	A	A	L	D	P	L	N	I	M	N	P	G	K											
UniRef90_F9G6N5	V	Q	N	L	Y	G	H	I	Y	R	R	F	V	E	T	L	K	A	A	V	D	P	N	N	G	I	L	A	P	G	K										
UniRef90_I4YVK1	L	E	V	E	H	G	P	A	A	L	D	L	M	R	V	L	K	Q	A	L	D	P	L	N	I	M	N	P	G	K											
UniRef90_G3NCK9	L	R	E	E	T	G	P	V	A	L	D	Q	V	M	Q	S	G	V	K	D	A	L	D	P	R	N	L	M	N	P	G	K									
UniRef90_C7DR05	L	E	K	E	M	G	P	L	G	I	E	I	M	K	S	I	K	R	T	L	D	P	H	W	L	M	N	P	G	K											
UniRef90_UPI00016A825E	L	E	R	E	H	P	T	S	L	R	D	A	M	A	V	K	K	A	L	D	P	R	G	N	I	M	N	P	G	K											
UniRef90_M4ZP49	L	K	S	E	L	G	E	A	L	D	A	M	R	A	V	K	A	A	L	D	P	Q	N	I	F	N	P	G	K												
UniRef90_T0LAP3	L	L	L	E	V	G	P	D	T	L	D	V	M	K	S	I	K	K	A	L	D	P	K	W	I	L	N	P	G	K											
UniRef90_K2LST4	L	E	E	E	L	G	G	A	V	D	V	M	R	A	I	K	Q	A	L	D	P	L	N	I	M	N	P	G	K												
UniRef90_W9S121	L	E	K	E	L	G	V	E	A	L	Q	T	M	K	R	I	K	A	A	L	D	P	N	D	I	M	N	P	G	K											
UniRef90_UPI00046B4E4B	L	Q	E	E	V	G	A	V	G	M	E	T	M	R	Q	L	K	V	M	L	D	P	R	G	L	M	N	P	G	K											
UniRef90_F6CMD0	L	E	M	E	Y	Q	S	G	V	A	L	M	R	R	I	K	E	A	L	D	P	Q	G	I	L	N	P	G	K												
UniRef90_A5WHZ7	M	A	Y	E	H	G	D	A	V	G	M	Q	A	I	K	H	A	L	D	P	N	N	G	I	L	A	P	G	K												
UniRef90_K6DR09	M	E	M	E	L	G	K	A	G	L	E	L	M	R	S	I	K	Q	A	W	D	P	N	N	I	L	N	P	G	K											
UniRef90_UPI0003C13D8C	L	A	E	V	I	G	N	P	A	M	E	V	M	K	Q	I	K	S	T	L	D	P	H	D	I	M	N	P	G	K											
UniRef90_V9FEQ6	L	S	V	E	H	R	D	S	V	N	V	M	H	T	I	K	K	A	L	D	P	K	D	I	M	N	P	G	K												
UniRef90_A7SQV7	L	E	E	E	V	G	P	S	G	I	E	V	M	K	Q	I	K</																								

QUERY

UniRef90_M4X0Z0
UniRef90_Q2Y8Z3
UniRef90_N1QEK3
UniRef90_C4ZM78
UniRef90_E4U3F6
UniRef90_W3XJJ6
UniRef90_Q39TS0
UniRef90_F6ILX7
UniRef90_S8C7C5
UniRef90_Q2G889
UniRef90_M7WVS4
UniRef90_M7WSH2
UniRef90_UPI0003B56D60
UniRef90_V5F823
UniRef90_R1EU50
UniRef90_S7Q4Y0
UniRef90_L2FMT8
UniRef90_UPI0003787152
UniRef90_K1WTF3
UniRef90_T0G7T9
UniRef90_UPI00035ECD0B
UniRef90_UPI00035F7457
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UniRef90_B2AS11
UniRef90_UPI00034CD283
UniRef90_Q5P348
UniRef90_E5AM77
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UniRef90_UPI0002E81831
UniRef90_S61Z6
UniRef90_Q2W2Y6
UniRef90_F4GW60
UniRef90_H5WM67
UniRef90_J2IBZ8
UniRef90_E8TRD7
UniRef90_B7QA60
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V L C E M D G M A E Q V V E A E A R R R V L E S H G A T E V R E A R D A E A E R
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L F L E F S G T K A S A E E D A K L T Q E L I L E H G G E Y W K R A N S A A E S
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		170	180	190	200																																			
UniRef90_H6BN39	R	L	G	D	V	I	E	V	T	N	R	K	L	E	E	S	G	L	V	G	A	C	C	G	H	V	G	D	G	N	V	H	A	A	I	F	Y			
UniRef90_F4P8Y5	H	I	V	E	T	L	R	S	R	K	E	L	A	D	H	H	G	L	T	G	S	T	V	A	H	A	G	D	D	G	N	V	H	T	A	V	F	L	V	
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UniRef90_F8A7X2	Q	K	V	P	E	F	L	R	F	A	K	E	D	H	H	G	L	T	G	S	T	V	A	H	A	G	D	D	G	N	V	H	T	A	V	F	L	V		
UniRef90_B1WYI3	L	A	N	E	F	L	E	K	I	E	Q	L	G	A	E	H	G	Y	R	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L			
UniRef90_A8MAT1	K	L	P	E	A	V	K	G	I	F	R	T	L	G	S	A	E	Y	D	L	R	I	V	T	W	G	H	A	G	D	D	G	N	L	H	P	N	L	L	
UniRef90_V4XWM2	R	Y	P	D	I	V	D	F	A	K	E	D	H	H	G	L	T	G	S	T	V	A	H	A	G	D	D	G	N	V	H	T	A	V	F	L	V			
UniRef90_J7S4V3	K	F	A	K	V	I	Q	E	T	K	E	E	M	D	K	S	G	L	I	N	A	V	G	H	A	G	D	D	G	N	F	H	A	F	I	V	Y			
UniRef90_R5K9Z3	E	K	L	S	D	L	V	L	G	I	R	A	I	A	E	K	R	S	V	L	E	V	C	M	V	G	H	A	G	D	D	G	N	V	H	P	Q	P		
UniRef90_UPI00047DD765	K	K	L	A	E	E	V	L	T	G	I	A	A	M	E	T	T	H	G	L	R	C	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	
UniRef90_Q012V3	K	L	S	E	M	I	A	L	T	E	R	E	F	K	K	A	R	F	P	C	V	I	C	A	H	I	A	G	D	D	G	N	F	H	C	L	I	P	F	
UniRef90_G8NAQ3	R	L	P	D	L	V	A	V	E	A	L	S	A	K	H	A	L	P	T	V	A	F	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L			
UniRef90_E6WQN5	T	R	I	H	Q	V	I	P	K	V	T	E	I	A	Q	K	Y	Q	L	M	V	A	V	F	G	H	A	G	D	D	G	N	L	H	P	N	L	L		
UniRef90_D3SNV9	K	I	L	P	E	L	I	D	G	V	E	A	I	A	M	E	N	R	V	M	I	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	L	
UniRef90_UPI0003B5C1F0	Q	L	A	A	V	L	R	R	E	I	E	Q	L	S	R	R	S	G	Y	R	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_H5TUV4	P	A	L	P	E	L	I	D	G	V	E	A	I	A	M	E	N	R	V	M	I	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	L	
UniRef90_Q8DIG3	Q	L	A	A	V	L	R	R	E	I	E	Q	L	S	R	R	S	G	Y	R	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_UPI0003692A96	K	L	P	F	V	L	R	E	I	E	Q	L	S	R	R	S	G	Y	E	V	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L		
UniRef90_Q4PFP4	P	A	L	P	R	L	V	R	E	S	Q	R	D	F	Q	E	S	G	L	T	G	A	T	V	G	H	A	G	D	D	G	N	F	H	A	N	L	P		
UniRef90_H6MXM5	P	A	L	A	D	F	V	D	G	V	G	R	I	A	N	D	N	A	V	M	I	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	V	
UniRef90_Q3SHD5	A	L	A	L	A	D	F	V	D	G	V	G	R	I	A	N	D	N	A	V	M	I	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	V
UniRef90_I4A955	R	V	P	E	A	L	R	A	I	R	N	I	G	A	E	Y	E	I	P	V	V	T	Y	G	H	I	G	D	D	G	N	M	H	T	A	P	I	M		
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UniRef90_F9U8F0	R	M	G	E	L	L	E	G	L	E	G	L	S	S	R	E	S	G	V	Q	V	N	F	G	H	A	G	D	D	G	N	L	H	H	N	L	L	L		
UniRef90_UPI00040540DD	A	E	L	P	E	L	M	H	G	T	L	A	E	L	S	S	Y	G	F	Q	S	V	C	Y	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_E1V7C1	R	A	L	P	E	L	L	G	T	L	A	E	L	S	S	Y	G	F	Q	S	V	C	Y	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L		
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UniRef90_B9KXS2	K	L	P	A	T	M	R	R	E	I	E	E	L	S	R	E	A	S	L	S	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_H8GYW4	Q	V	L	P	E	V	V	R	R	E	I	R	A	L	G	D	E	S	P	F	P	V	V	Q	F	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L
UniRef90_HOR399	L	A	L	V	A	G	V	A	K	L	A	A	R	N	D	V	T	L	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	L	L			
UniRef90_L2FBK3	R	L	A	D	I	V	V	E	S	K	A	E	A	K	L	G	L	N	A	C	K	G	H	I	G	D	D	G	N	F	H	P	N	L	L	L	L			
UniRef90_UPI00034DDA20	K	L	P	E	L	L	R	R	E	I	E	Q	L	S	R	R	S	G	Y	R	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_E1IBU6	R	L	P	E	L	L	R	R	E	I	E	Q	L	S	R	R	S	G	Y	R	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
UniRef90_Q9PGF5	R	I	P	D	L	V	A	G	I	E	V	L	A	A	E	S	G	L	P	E	V	Y	F	G	H	A	G	D	D	G	N	L	H	H	N	L	L	L		
UniRef90_H1YDK5	A	E	L	P	A	L	I	K	G	I	K	A	I	G	A	E	R	F	S	V	C	Y	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L	L		
UniRef90_W5X5J7	K	L	P	E	M	L	D	F	V	Y	A	V	A	T	K	H	G	V	G	V	A	N	I	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	L	
UniRef90_F1YE21	S	L	P	D	L	I	D	G	V	A	A	I	G	A	E	N	D	V	L	I	S	V	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	L	L	
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UniRef90_I0RDK9	I	P	E	M	Q	A	A	I	Q	A	T	A	E	R	H	R	D	G	L	L	F	I	A	V	C	G	H	A	G	D	D	G	L	H	P	T	T	F	L	
UniRef90_F8AD10	K	L	V	K	M	L	V	G	L	I	Q	E	I	S	K	K	Y	N	L	P	I	A	T	V	G	H	A	G	D	D	G	N	V	H	P	S	M	L	L	
UniRef90_H5UVN5	R	M	P	H	F	Y	D	E	L	D	R	I	R	A	A	S	G	L	T	A	V	V	A	H	A	G	D	D	G	N	L	H	P	N	L	L	L	L		
UniRef90_U2N9E2	N	K	V	A	E	F	I	K	Y	T	H	Q	L	E	E	K	H	E	I	R	L	R	S	F	G	H	A	G	D	D	G	N	L	H	P	N	L	L	L	
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UniRef90_I2JTX6	R	L	A	K	S	L	E	D	T	K	K	D	L	A	E	S	K	L	T	A	S	L	V	G	H	V	G	D	D	G	N	Y	H	C	F	L	L			
UniRef90_F7NMX3	Q	L	P	H	V	E	K	F	Q	E	I	S	A	R	N	G	V	I	L	G	A	L	I	H	A	G	D	D	G	N	C	H	P	Q	V	P	L			
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UniRef90_C4LIW4	S	M	A	D	F	F	D	G	L	A	A	I	R	K	N	T	G	V	V	I	A	A	I	A	H	A	G	D	D	G	N	T	H	P	N	L	L	L		
UniRef90_D5BVM9	Q	L	A	V	L	I	G	D	L	E	R	L	S	Q	E	Y	G	Y	P	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L		
UniRef90_K9YPL1	L	A	A	V	L	R	D	I	E	A	L	S	Q	E	Y	G	Y	P	I	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	L		
UniRef90_UPI0003765CC3	Q	L	P	L	V	L	E	R	I	G	A	I	C	A	D	K	C	L	R	V	A	N	V	F	H	A	G	D	D	G	N	L	H	P	N	L	L	L	L	
UniRef90_R7XYV4	P	L	L	P	D	L	V	E	R	V	A	G	I	A	K	R	C	A	V	E	I	A	N	V	F	H	A	G	D	D	G	N	T	H	P	N	L	L	L	
UniRef90_E5XLL9	P	K	L	P	D	L	I	D	G	V	R	A	I	G	A	N	E	V	T	I	A	V	I	A	H															

UniRef90_H6BN39 S D A E K E K A E K V V L E V E K L G I Q V D G G G E H G I G L E K R D R
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UniRef90_C8W3B0 F E N M D N Q A E V E Q V Q K L T R D A I H R K L A V L D L G G G E H G I G A V T K R S R Y
UniRef90_F8A7X2 F E K N D N D E I K A Q K V R V E I L N K V L E D L G G G E H G I G L T K R S G F
UniRef90_B1WYI3 Y D N S I P G Q W E E V E K L G G E I L K L C V E L L G G G E H G I G S D K K N E Y
UniRef90_A8MAT1 Y N P S D D Q S S I S R L H A V T S R E I G L L A I E N L G G G E H G I G V L K K K D L
UniRef90_V4XWM2 F D P D D P A S V A A G E T V T S R R L V E R T I E L G G G G E H G I G T G K R E Y
UniRef90_J7S4V3 T N K D E L E R V K K I V G H M V H R A L Y A E G G G E H G I G I G K R T Y
UniRef90_R5K9Z3 V D Y H D D E D E Y K R Y K L A K S E I Y D R L T A K S L D G G G E H G I G S E K R D H
UniRef90_UPI00047DD765 Y A H N D D P D S L A R A W E A F D D I L R L G L K S L D G G G E H G I G T V K V P W
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UniRef90_Q012V3 F D A N M Q E S E R A A L L A L E D R K V I G H A I E L G G G E H G I G I G K K Q Y
UniRef90_G8NAQ3 P E D Y P R A E A Y A E R L V A K A L A L G G G A E H G I G L R K K K Y
UniRef90_E6WQN5 Y H P D D P A E D A R A H A A L E G L F A E V I A L G G G E H G I G A A K R D W
UniRef90_D3SNV9 Y D K A N R E E E A E K A E S A V D E L F F E M T L A F F G G G E H G I G L T K R K F
UniRef90_UPI0003B5C1F0 E P E E E A E K V E S A V R D V L F R F T I E L G G G E H G I G F M K K E F
UniRef90_H5TUV4 F D P A D A D E S A R A Q T A F G Q V M D L A I S L G G G E H G I G R L K K G W
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UniRef90_H8GYW4 F D P R T E S E E A V H H L A H Q I A L V A I R H A G G G E H G I G T M K R D F
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UniRef90_E5XLL9 H D P E D E D E T R R A E R A F G E I M D L A I R L D G G G E H G I G R L K K G W
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UniRef90_S9TYS2 S D P A D F V K A R A L E Q A M V R R A V K M G G G E H G I G V G K R H H
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UniRef90_C9LRK5 D D M N D A E W K N L E G A M D R M Y K K A R E L K G G G E H G I G F A K M S Y
UniRef90_C4XWB1 Y N S K D Y D R A K D V V D R M V G R A L K Y E G G G E H G I G V G K R S Y
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UniRef90_T1VW91 F D R T D G S V P E A V W T A A D E V F R R A L E L G G G E H G I G V L K R R W
UniRef90_C6BVR4 Y D K S A G E Q E K A L K A K Q K I F Q L T L E L G G G E H G I G L T K A K Y
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UniRef90_L0R7R3 Y D K L V A G S E R A L K A K K E I F K S T L A F F G G G E H G I G L S K A D Y
UniRef90_X0ZNF0 D Y P E D K W K E T I P K I S G E I F D I A L L G G G E H G I G A T R S K Y
UniRef90_W2ENU5 F E R G L A E P P A E V W A A A D E V F R A A L D L G G G E H G I G L L K K R W

UniRef90_H6BN39	L	L	I	D	E	L	G	V	D	S	V	D	T	M	R	R	L	K	L	A	L	D	P	L	C	L	L	N	P	E	K	250	260	270		
UniRef90_F4P8Y5	L	S	E	E	V	G	V	E	A	I	E	L	M	R	K	I	K	S	V	V	D	P	N	G	I	M	N	P	G	K						
UniRef90_C8W3B0	A	P	A	E	H	G	R	A	L	N	S	V	M	R	M	I	K	S	V	L	D	P	K	G	I	M	N	P	G	K						
UniRef90_F8A7X2	L	P	K	E	L	S	P	E	V	L	S	L	M	K	G	I	K	Q	V	F	D	P	H	N	I	L	A	N	P	G	K					
UniRef90_B1WYI3	M	S	Y	M	F	N	E	I	D	I	E	T	M	Q	W	V	R	Q	V	F	N	P	D	N	I	L	A	N	P	G	K					
UniRef90_A8MAT1	L	V	N	E	L	G	S	I	A	Q	L	R	L	M	K	A	I	K	K	A	F	D	P	N	N	I	L	A	N	P	G	K				
UniRef90_V4XWM2	L	I	S	E	H	D	S	T	L	E	T	M	Q	S	I	K	Q	T	L	D	P	R	G	I	F	N	L	A	N	P	G	K			F V D	
UniRef90_J7S4V3	L	H	D	E	L	G	D	T	P	I	D	L	M	R	R	I	K	L	A	L	D	P	K	R	I	M	N	P	D	K						
UniRef90_R5K9Z3	I	H	K	V	V	N	S	G	D	A	E	L	D	Y	M	R	Q	I	K	K	T	F	D	P	N	N	I	L	A	N	P	Y	K			
UniRef90_UPI00047DD765	L	G	L	E	L	G	D	A	E	L	D	R	Q	R	R	L	K	A	V	F	D	P	A	G	I	M	N	P	G	K						
UniRef90_A0A031GW71	M	C	V	Q	F	T	R	A	E	L	D	A	F	F	A	V	K	R	A	F	D	P	H	T	L	L	N	P	D	K						
UniRef90_Q012V3	L	L	L	E	H	G	G	A	H	I	D	V	Q	R	R	L	K	R	A	L	D	P	L	N	I	M	N	P	G	K						
UniRef90_G8NAQ3	L	P	L	E	H	G	G	A	L	D	W	M	R	K	L	K	A	L	L	D	P	E	G	L	L	N	P	G	K							
UniRef90_E6WQN5	M	D	R	A	F	D	A	T	L	A	A	M	R	A	V	K	A	A	L	D	P	D	G	I	L	L	N	P	G	K						
UniRef90_D3SNV9	L	K	W	Q	M	G	D	V	G	Y	E	L	L	K	S	I	K	S	V	F	D	P	K	N	I	L	F	N	P	G	K			M		
UniRef90_UPI0003B5C1F0	L	P	L	E	V	G	E	A	I	E	K	M	I	A	V	K	K	A	L	D	P	N	N	I	L	A	N	P	G	K						
UniRef90_H5TUV4	L	P	D	Q	L	G	P	D	V	M	E	L	T	A	R	I	K	A	A	L	D	P	E	G	L	L	N	P	G	K						
UniRef90_Q8DIG3	M	S	E	M	F	S	P	A	D	L	D	T	M	Q	W	V	R	A	A	F	D	P	K	R	L	A	N	P	E	K						
UniRef90_UPI0003692A96	M	S	R	Q	F	T	V	D	D	L	M	A	Q	M	E	I	K	C	V	F	D	P	S	W	L	M	N	P	E	S	K					
UniRef90_Q4PFP4	L	E	S	E	L	P	A	S	T	I	R	V	M	K	A	I	K	L	A	L	D	P	H	N	L	L	N	P	G	K						
UniRef90_H6MXM5	L	P	D	Q	V	G	P	D	V	M	E	L	T	A	A	I	K	A	T	L	D	P	D	G	L	L	N	P	G	K						
UniRef90_Q3SHD5	V	P	L	E	I	A	P	A	T	L	E	L	M	R	A	I	K	R	Q	F	D	P	H	G	L	L	N	P	G	K						
UniRef90_I4A955	M	Q	E	E	H	G	I	A	L	D	V	M	W	S	I	K	K	A	L	D	S	K	L	I	M	N	P	G	K							
UniRef90_UPI0003766097	M	P	R	M	F	T	D	D	L	D	T	M	Q	A	V	K	C	A	F	D	P	E	G	I	S	N	P	G	K							
UniRef90_Y0KIK2	V	S	R	E	I	D	A	V	T	M	Q	L	M	K	Q	V	K	L	T	F	D	P	N	N	I	L	A	N	P	G	K					
UniRef90_F9U8F0	V	E	R	E	I	D	A	P	V	L	A	L	M	R	D	I	K	R	Q	F	D	P	A	G	I	L	L	N	P	G	K					
UniRef90_UPI00040540DD	M	S	L	K	Y	S	E	T	G	H	L	N	L	M	R	G	I	K	E	V	F	D	P	K	G	I	L	L	N	P	G	K			T P D	
UniRef90_E1V7C1	M	C	V	Q	F	P	T	G	L	T	T	F	H	A	V	K	A	A	F	D	P	V	G	L	L	N	P	G	K			N				
UniRef90_A4I481	V	T	Q	E	H	G	E	A	H	I	C	V	Q	E	T	I	K	K	A	L	D	P	D	N	I	M	N	P	G	K						
UniRef90_B9KXS2	M	T	L	V	I	T	T	E	S	L	C	A	M	A	G	L	K	R	S	F	D	P	R	E	L	F	N	P	E	K						
UniRef90_H8GYW4	M	R	D	A	V	D	P	E	S	L	D	V	L	R	S	V	K	R	A	L	D	P	Q	D	R	L	L	N	P	G	K					
UniRef90_HOR399	L	P	N	Q	V	G	P	D	V	M	E	M	T	R	M	I	K	Y	A	L	D	P	Q	G	L	L	N	P	G	K						
UniRef90_L2FBK3	L	L	S	E	V	G	N	D	I	T	V	M	K	L	I	K	G	T	L	D	P	N	W	I	L	L	N	P	G	K						
UniRef90_UPI00034DDA20	M	P	E	M	F	T	D	A	D	L	A	T	M	Q	W	V	R	Q	V	F	D	P	K	A	I	A	N	P	T	K						
UniRef90_E1IBU6	M	P	W	I	Y	S	V	E	D	Q	S	A	F	A	D	L	R	N	V	F	D	P	A	G	V	M	N	P	G	K						
UniRef90_Q9PGF5	M	T	Q	A	F	D	T	P	T	L	A	A	M	R	A	V	K	A	A	F	D	P	D	G	I	L	L	N	P	G	K					
UniRef90_H1YDK5	M	P	I	K	Y	P	D	V	N	L	A	L	M	R	G	I	K	Q	V	F	D	P	N	G	I	L	L	N	P	G	K					
UniRef90_W5X5J7	M	P	L	M	F	S	E	D	D	L	A	M	Q	A	L	A	K	R	I	F	N	E	N	G	L	C	N	P	C	K						
UniRef90_F1YE21	L	R	D	Q	V	G	D	D	V	M	D	L	M	S	L	T	K	T	A	V	D	P	Q	G	L	L	N	P	G	K						
UniRef90_B1XNB6	M	P	D	M	F	N	E	A	D	L	E	T	M	G	Y	V	R	E	A	F	N	P	K	G	L	A	N	P	G	K						
UniRef90_K9R898	M	P	D	M	F	S	A	A	D	L	E	T	M	Q	W	V	K	Q	V	F	N	S	K	G	L	A	N	P	Q	K						
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E G E D Q A E E E A P M N A L V Y E V V D R Y R G S I S A E H G I G S L K I D K

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UniRef90_U2L4D2	L	A	S	F	S	G	D	V	V	M	R	L	M	K	G	V	K	E	T	F	D	P	K	M	I	L	N	P	G	K	
UniRef90_B4WNNH2	M	P	D	M	F	S	E	T	D	L	E	T	M	Q	W	V	R	G	A	L	N	T	K	G	L	A	N	P	T	K	
UniRef90_C1CWF7	L	A	Q	E	H	G	E	A	L	E	D	L	M	R	D	L	K	M	L	L	D	P	H	G	L	L	N	P	G	K	
UniRef90_K9XQ15	M	P	Y	M	F	N	E	T	D	L	E	T	M	G	Y	V	R	N	A	F	N	H	K	G	L	A	N	P	G	K	
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UniRef90_Q96Y71	M	N	L	Y	Y	N	E	K	E	L	E	T	L	K	M	I	K	N	K	F	D	P	N	N	I	L	F	N	P	G	K
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UniRef90_Q6BMB0	L	E	L	E	L	G	I	D	A	V	D	L	M	R	R	L	K	F	S	L	D	P	K	R	L	L	N	P	D	K	
UniRef90_A5DZZ5	L	E	L	E	L	G	O	D	T	I	D	M	M	R	K	I	K	L	S	L	D	P	N	R	I	L	N	P	D	K	
UniRef90_B3DXH0	W	G	K	A	L	S	R	E	S	R	L	V	H	E	K	I	K	R	C	L	D	P	K	G	I	L	N	P	G	K	
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UniRef90_G7VFA9	I	K	M	E	L	G	E	A	L	N	Y	M	R	E	L	K	R	V	F	D	P	Y	N	I	L	N	P	G	K		
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UniRef90_E8LBD6	L	A	A	Y	C	D	P	V	E	M	S	I	M	K	T	I	K	R	A	M	D	P	N	N	I	L	N	P	G	K	
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UniRef90_A1HPH4	M	E	E	F	A	N	P	V	I	E	L	K	M	M	K	A	I	K	R	A	L	D	P	N	N	I	M	N	P	G	K
UniRef90_U7UHU7	M	E	Q	F	T	P	Q	G	E	L	W	L	M	K	M	I	K	Y	A	F	D	P	N	Y	I	L	N	P	G	K	
UniRef90_I2F8C5	L	A	S	I	V	D	E	A	Q	L	D	L	M	R	R	I	K	K	A	F	D	P	N	N	I	L	N	P	G	K	
UniRef90_S7HG72	M	E	Q	F	T	P	K	G	E	L	K	I	M	K	T	I	K	R	A	M	D	P	K	D	I	L	N	P	G	K	
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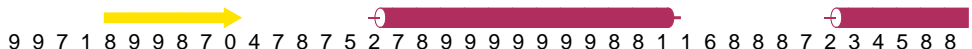
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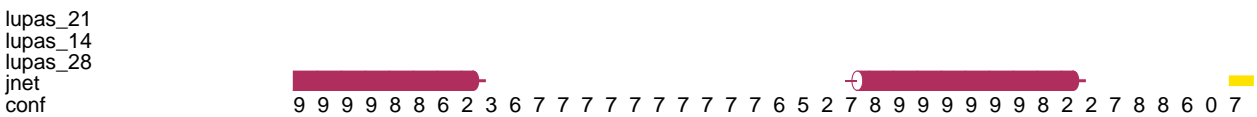
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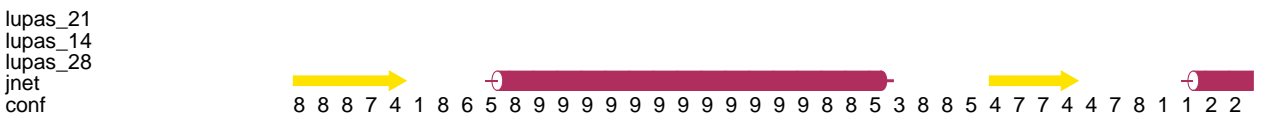


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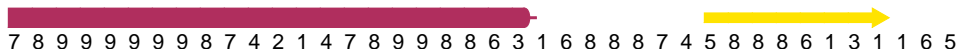
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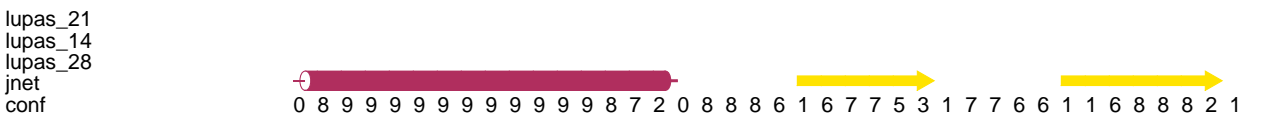


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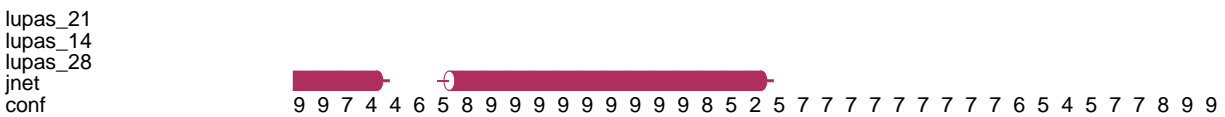


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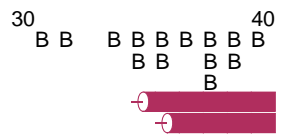
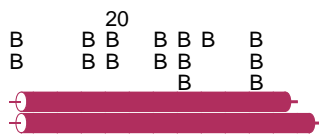
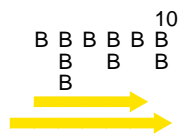


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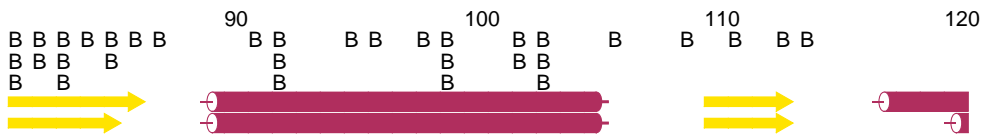
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			250		260		270
B	B	B B	B B	B B	B B B B	B B B B B B	B B B B
B		B B	B B	B	B B B B	B B B B	B B
B		B	B	B	B	B	B

The diagram consists of four rows of data. The first row shows the labels 'sol25', 'sol5', 'sol0', 'jhmm', and 'jpssm'. The second row shows the positions 250, 260, and 270. The third, fourth, and fifth rows show the distribution of 'B' characters for each solution. The 'jhmm' and 'jpssm' rows are accompanied by red bars and circles, indicating specific data points or markers.

