

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

QUERY		50	60	70	80
UniRef90_U5NIU5	T I E H L P E T E V G W T L G L F Q V S H G I F C T G A I T T S P A F L E L A S R				
UniRef90_Q9YTP9	T T I E H L L E S T E V G G W T V G L L F F Q V S H G I F C G G L I T S E S F K L I N F A E N S				
UniRef90_P52369	N I E E H L P E S T I V G H T I G L L Y S V T H G I V F C V G V I N S E K F L I N F A E N S				
UniRef90_Q8AYV3	N V E E H L Q E A H V G W T L G L H L T R Y G L F C C V A V I T A E E F F T L L D R				
UniRef90_G9JMK7	T I E H L D S T Q I V G W V L G L F F T E T G L F F C C V S V I N S E G F L N L L S S T				
UniRef90_D0PPA5	N I E E H V P E A H V G H T L G L F Q V T H G I F C C L G K L T S P D F L A L L A S R				
UniRef90_Q99D14	N V E E H L A D A E V G W V R A I Y P A S H H G L F C C I G E I I N N Q Q F L H V T Q				
UniRef90_A2TIV8	N I E H I S E A I V G W T L G L F K V T H G I F C C V G A V T S Q D F M S L L E R				
UniRef90_Q918P4	N I D H R Q D C V I G A V L T I V D D P K G L F F F L G K I N C P I L A T I L L I S				
UniRef90_Q993K1	N V D H R A Q C E V G R V L T I V D D P R G P F F V G L V S C A Q L E Q V L E E				
UniRef90_Q8B3X1	T V E H L P D A R I I G S V W G L L Y Q T S G G G L F C A G C T S K T F L D T L A I T				
UniRef90_Q806A3	T I E H I D A A Q I V G W V L G L F F T K K G L F L S V S V I N S E E F I S L L D T				
UniRef90_Q1HVC7	N V D H R A R C E V G R V L A V V D D P R G P F F F A G L I A C A Q L E R V L L E T				
UniRef90_P28936	T V E H L P D A P V G S V F G L Y Q S R A G L F S A A S I T S G V F L S L L D S				
UniRef90_E9M5K0	N I D H R N G C V V G E V L S I V D D A R G P F F L L G I N C P Q L G A V L V A T				
UniRef90_P24433	N V E H L E H A E V G A V V G I F K V V H G L F C C V G K I Y C K P F L D L V L H R N				
UniRef90_P16753	N I N H N E K A T I I G M V R G L F D L E H H G L F C C V A Q I Q S Q T F M D I I V R N				
UniRef90_F8TC18	N I N H D D T A V V G H V A A M Q S V R D G L F C C G C V T S P R F L E I V R E T				
UniRef90_T2FL05	N I D H R P R N C T V G A V L A L T D D E H H G L F F L G V V N C P V M I R T L E				
UniRef90_Q8JY97	N I D H K T R C S V G Q V L A V V N D A R G P F F F L G V V A C G Q L E H V L L A E R				
UniRef90_Q2VSM4	T V E H L P G A Q V V G W V T G L F P V A Q G L F C T G V I N S P G F L D L L V R N K				
UniRef90_I3VQ74	N I N H D E A A S V V G S L V G L F D L D A G L F C F G E I N S E T F L D I V V G K				
UniRef90_K7XY03	N I N H D D S S V V G S V R R L F D T E A G L F C I G Q L H S S T F L D N I V V G R				
UniRef90_B7TPY6	N I N H D D D N A V V G R L H H G L F D L P N G L F C F G E I S S P S F L D I V V R				
UniRef90_Q9E1Y4	N I D H R K D C I V G V V A A I I J A D V N G P F F F L G L I R C K Q L Q S V L L N E				
UniRef90_Q9DPF1	N I D H R Q D C V V G A V L A L A D D D H G L F F V G R I N C P L M T Q T L E D A S				
UniRef90_O36367	T V E H F S E A A Q V V G W V T G L F S V A Q G L F C T A V I T A G E F L E L L D S				
UniRef90_D1FXV5	N I D H N R K C V I G S V L S I V D D P K G L P F I G L L N C P Q L G V V L A S S				
UniRef90_P54817	N I D H A S A C E V V G A V L A L A D D D A G L F F F V G V I N C P Q L A D T L A G				
UniRef90_U3GQ23	N I N H D E R A T I V G I I D N L Y D L D Y G L F C C G R I T S D S F L E I V V D R				
UniRef90_Q9DWC1	N I N H D D D A A T V G G A V V Q L F D A G A G G L C L G R V L S P G F L E K V L E E				
UniRef90_J9QYN0	N V D H R A G C E V V G R V L T I V D D R R G P F F F V G L I A C S Q L E K V L E E				
UniRef90_G8XUE6	N V N H D D D N A V V G R V L L G F H N A P A G G L F C L G C V D S P S F L D I V V K				
UniRef90_P52351	N I N H N E N A V I G T V S S L S V Y S T V C F V A R V Q S K E F L L T I I V K K				
UniRef90_I3WFC7	N V N H D E S S A T V G H V A G L K N V R A G L F C L G R V T S P P A F L D I V V Q K				
UniRef90_H2A2B1	N I N H D E S S S T V G G T V R L F D A E A G L F C L G R L S S P A F L D I V V E K				
UniRef90_Q8BAH4	N I D H R A G C V V G R V L T I H H G R Y G L F C C C K I T S Q N L F R V M M E				
UniRef90_P09286	N I D H R K D C V V G E V I A I I E D L R G P F F F L G I V R C P Q L H A V L F E				
UniRef90_Q5Y966	N I D H R A G C T V G R V L T I H H G R Y G L F C C C K I T S Q N L F R V M M E				
UniRef90_G8XSY5	C I D H K D R C T V G R V L S V L D A E K G A F C V A K G T S K N R F L L I M L E				
UniRef90_Q18LE3	N V N H R E D A V V G N V F K F F S V D R G I F C I G E I T S K R F L L K I I K N				
UniRef90_Q91TL5	N V N H E E S A T V G E V C H L A D V F D A G L F C F G E I V S P S F L E I M T K				
UniRef90_P23984	N I D H E S S C V V G T V L T I L D L P R G L F C L G V V S T P I F L S Y V Q				
UniRef90_Q6IDK6	N I N H D A S C R V V G L S I V D V F K G F I G V V S T P I F L S Y V Q				

lupas_21
lupas_14

lupas

jnet
...sf

cont
sol35

sol25
sol5

sol0

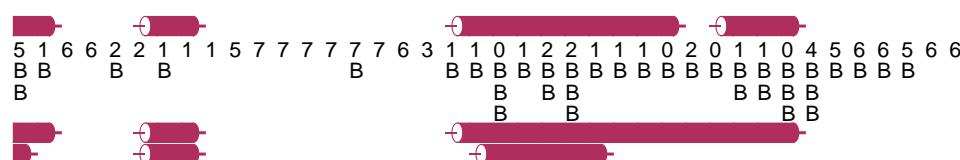
jhmm

The diagram shows the sequence of digits 0, 3, 1, 4, 7, 8, 7, 4, 1, 8, 8, 8, 8, 8, 9, 9, 9, 2, 4, 8, 8, 8, 5, 5, 8, 8, 8, 7, 3, 1, 7, 1, 8, 8, 9, 9, 9, 9, 9, 8. Arrows above the sequence point to groups of digits: (0, 3, 1), (4, 7, 8, 7), (4, 1, 8, 8, 8, 8, 8, 9, 9, 9), (2, 4, 8, 8, 8, 5), (5, 8, 8, 8, 7, 3), (1, 7, 1, 8, 8, 9, 9, 9, 9, 9, 8). Below the sequence, the letter 'B' is placed under each group of digits, except for the first digit '0'. The last two digits '9' and '8' are underlined.

QUERY
 UniRef90_U5NIU5
 UniRef90_Q9YTP9
 UniRef90_P52369
 UniRef90_Q8AYV3
 UniRef90_G9JMK7
 UniRef90_D0PPA5
 UniRef90_Q99D14
 UniRef90_A2TIV8
 UniRef90_Q918P4
 UniRef90_Q993K1
 UniRef90_Q8B3X1
 UniRef90_Q806A3
 UniRef90_Q1HVC7
 UniRef90_P28936
 UniRef90_E9M5K0
 UniRef90_P24433
 UniRef90_P16753
 UniRef90_F8TC18
 UniRef90_T2FL05
 UniRef90_Q8JY97
 UniRef90_Q2VSM4
 UniRef90_I3VQ74
 UniRef90_K7XY03
 UniRef90_B7TPY6
 UniRef90_Q9E1Y4
 UniRef90_Q9DPR1
 UniRef90_O36367
 UniRef90_D1FXV5
 UniRef90_P54817
 UniRef90_U3GQ23
 UniRef90_Q9DWC1
 UniRef90_J9QYN0
 UniRef90_G8XUE6
 UniRef90_P52351
 UniRef90_I3WFC7
 UniRef90_H2A2B1
 UniRef90_Q8BAH4
 UniRef90_P09286
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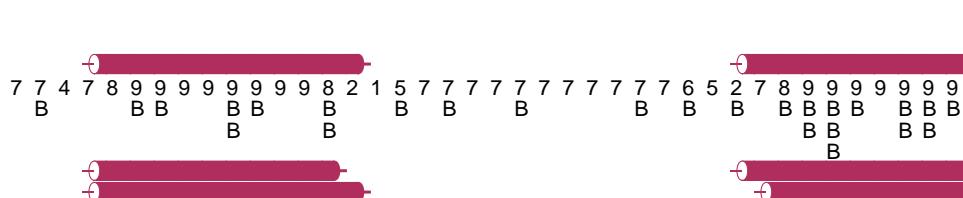
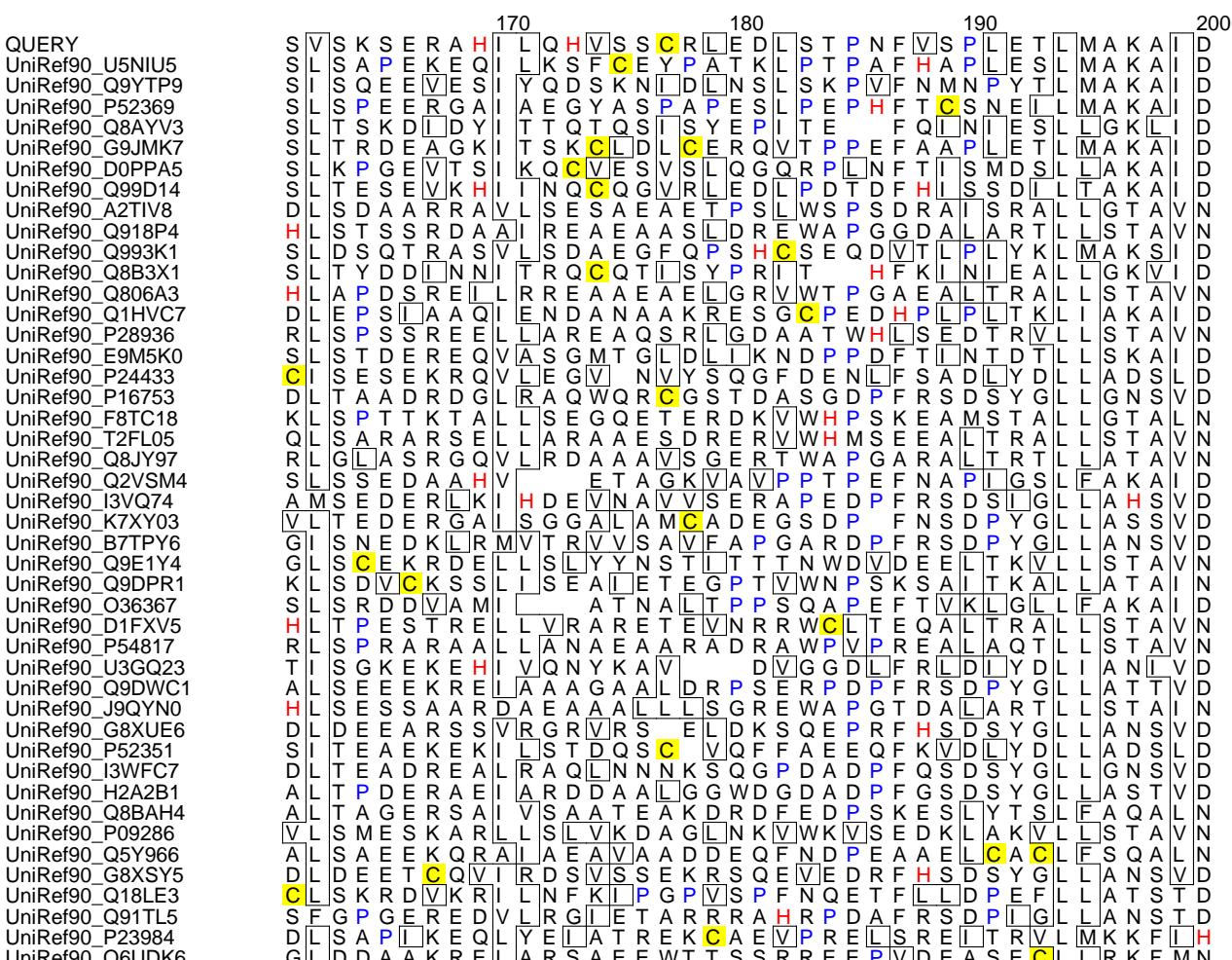
	90	100	110	120
L	A D T S H V A R A P V K N L P K E P L L E I L H T W L P G L S L S S I H P R E			
L	A D C S H V A A A P V T D L P K D P L L E I L H T W L P G L S L S S I H P N E			
L	F S N S C V A K T T N K L L P H Q P L L E I L H T W L P G L S L S S I H P N T			
L	C A A S S V A R T R A D H L P P N P T L E M L H T W L P E L S L S S I H P D A			
L	Y D K S D V A R Q P P D S L P P N P K L E I L H S W L P G L S L S S I H P N Y E			
L	A G D S R A A Q I Q L N P M P R D P L L E M L H T W L P E L S L S S I H P E E			
L	A A E S A A S H I T L K Q P R E P T L Q M L H T W L P E L S L S S I S P D □			
M	F P Y S E A A Q T H K K S L P H N P I L Q M L H T W L P S L S L S S I H P D H			
A	A S G E I F G N K E L S L T P E E R L L Y I V T N Y L P S A S L S S R R L K			
A	A A S A L F E R R G P P L S R E E R L L Y I V T N Y L P S V S L S S R R L E			
L	Y D E S C I A Q K Q L T P L P C E P G V E T L H A W L P A L S L A S I H P E A			
L	Y D K S E V A Q Q S C E N L P S S P K L E I L H S W L P E L S L S S I H P D H			
A	A A S A A I F E R R G P P L S R E E R L L Y I V T N Y L P S S V S L S T R R L E E			
□	Y H D C D I A Q S Q R L P L P R E P K L E A L H A W L P P S L S L A S I H P D I			
A	A A G P D F F G E L S E G L S E Q E R L L Y I V T N Y L P S S A S L S S R R L G			
M	F T S S S A A K K P S T L P R L P A V E M L H A W L P E L S L S S T H P E L			
I	A G K S K L A G S V I E P L P P D P E I E C L S S S F P G L S L S S S K V L Q D			
A	S E K S E V S R G P V I S P L Q P D K V V E F L S G S Y A G L S L S S S K R C D D			
A	A A S Q E I F S E F D N L K E E R V L Y I T T N Y L P S V S L S S S K R L E			
A	V G P D F F G D M R L S D E E R L L Y I L S N Y L P S A S L S S S R R L A			
A	A A S G D I F G R R G P P L T R E E R L L Y I L T N Y L P S V S L S T R R D D S			
L	Y S E C V V A Q C P P N D L P R N P R A E V M H S W L P E L S L S S S V H P T L			
V	S A K S K V S K G P S G D L K P D P I L E Y L S A G Y P G L S L S S R R D D			
A	A A E K S K V A R G P A D G L D A D P V V E Y L S A G F P A L S L S S S R P S E			
S	A E K S Q V S R G P G N G L K P D A V V E Y L S T G Y P G L S L S S R R S T D E			
A	A A N A E F F G N M P V V S T T E R L L Y V L T N Y L P S S I V S L S S S R R L L E			
A	A A S Q E I F S E L E N I S K D E K L L Y L V T N Y L P S V S L S S S R R L L E			
L	Y L E C T V A Q S P K A D L P R N P R A E V L H S W L P E L S L S S S V H P D L			
A	A A S P G F F G V K E G K L T R V E Q L L Y L V S N Y L P S A S L S S S R R L S			
V	A H P A F F G A D A P S L T P R E R F L Y L V S N Y L P S V S L S S S R R L A			
A	A A P K S R L V R G P S N G L D P D S V I E F L S S T F P G L S L S S S R R S			
A	A G K S K V A R G P A G G L V A D P T V E Y L S P S F P A L S L S S S F A A D A			
A	A A S A E L F D R Q G P P P T R E E R I L Y I T T N Y L P S V S L S S S R R L E			
T	A D K S E V S S G P G G E L D P D P V L E F L S G S G P G V E K E S A T P S E			
□	A A K S K I T N T E E K T L P P D P E I E C L N S I F P G L S L S S R R S N R			
A	S E K S E V S R G P P S S L Q P D G V L E F L S G S Y S G L S L S S R R R D I N			
A	A A G K S K V A R G P A K G L E A D P V V E Y L S A G F P A L S L T S E N P G E			
T	A D E G L F E N L N P G S E A D K L L Y L I S N Y I P S F S M S S S K R V A S S			
A	A A H S N F F G N R D S V L S P L E R A L Y L V T N Y L P S V S L S S S K R L S			
T	D P R V F E E K P G L S E R E K L L L I S N F V P S F S L S S S V K V D R			
T	A E K S E V A S G P R G E L T P D P V L E F L S G S Y S G L S L S S L R C S V			
A	S D S C V V G L G P T A P V P K D S I L E Y Y L S A Y L P A L S L S S S R R S N F			
S	A D R S A V R R G P G G G L K P D P V V E Y Y L S T M Y P S L S L S S S R A V G E			
D	D D A L F A N A E E G L T E T E K F L Y L L S N I L P S L S L S S S R R R L E			
V	A E T R S D E A L P A N T L E R E K F L Y L L S N V L P S L S L S S S A R L A D			

lupas_21
 lupas_14
 lupas_28



QUERY	130	140	150
UniRef90_U5NIU5	L S Q T P S G P V F Q H V S L C A L G R R R G T V A V Y G H D A E W V V S R F S S		
UniRef90_Q9YTP9	L E R E P D T A V F Q H V S S L C A L G R R R G T V A V Y G R D P K W V L S R F S S		
UniRef90_P52369	Q N E N N D N M F Q H V S S L C A L G R R R G T V A V Y S M N L K D A I S Q F Y S S		
UniRef90_Q8AYV3	L P G A K D T P F Q H V A L C A M G Q R R G T V A V Y G E S L D W I L S K F F T		
UniRef90_G9JMK7	L S P T D E H E P F Q H V S I C A L G K R R G S V A V Y G E T L S W V L S K F F D		
UniRef90_D0PPA5	L Q D P N H P P A F Q H V S S L C A L G R R R G S I A V Y G P D P T W V V S K F F D		
UniRef90_Q99D14	M N S T P D A E L F H V V A L C A L G K R R G R G V V A V Y G H T L E W V I S K F F D		
UniRef90_A2TIV8	T P P P E A N E M F Q H V V A L C A L G K R R G R G T V A V Y G P D I A W A V V S K F F D		
UniRef90_Q918P4	A G E E P D T S L F S H V V A L C L L G R R R V G T I V T Y D I S P E N A L L L P F F R		
UniRef90_Q993K1	P G D T S W E D L F R H V V A L C V I G R R R L G T I V T Y D V S I S S G A V A P F F Q		
UniRef90_Q8B3X1	S K G D P C Q P F F D H V V S L C A L G K R R R G T T V A V Y G D T L L S S W V L S K F F D		
UniRef90_Q806A3	L N D N V N H E P F Q H V V S V C A L G K R R R G T V A V Y G D T L L S S W V L S K F F D		
UniRef90_Q1HVC7	G E T T P D N T F L V H V A L C A I G R R R L G T I V T Y D T S L L D A A V A P F F R		
UniRef90_P28936	P Q T T A D G S F F D D H V S I L C A L G R R R R G T T A V Y G T D L L A W V L K H F F S K		
UniRef90_E9M5K0	P D E E P D E T L E A H V V S V C V I G R R R V G T I V T Y D A T P E N A V A P F F R		
UniRef90_P24433	L S A T P P S Q I L Q H V I A L C A M G G K R R R G V V A V Y G L D P K W V I S K F F S P		
UniRef90_P16753	E N L D G K P F F H H V S V C G V G R R R P G T I A I F G R E L S W I L D R F F S P		
UniRef90_F8TC18	V E A A S E T T P F K H V V A L C S V G R R R R G T L L A V Y G R D P E W V T Q R F F P		
UniRef90_T2FL05	P G E K A K D K S F L A H V A V C L L G K R R I G T I V T Y D L T P E N A I E P F F R		
UniRef90_Q8JY97	P G E A P D E T L F A H V V A L C V I G R R R V G T I V V Y D A S P E A A V A P F F R		
UniRef90_Q2VSM4	G A P V V G P N L F A H V A L C A I G R R R L G T I V T Y D V T M E G A V A P F F R		
UniRef90_I3VQ74	L G T D K E P P V F Q H V V S L C A L G K R R R G S V A V Y G N S L P W V L S R F F K D		
UniRef90_K7XY03	G D S S E P G P F F K H V V S L C G V G R R R R G T L L G I Y V G R D P R W I L D R F F D S		
UniRef90_B7TPY6	C S E R P N F F R H V V S L C G L G R R R R G T L L A V Y G R D C N W I V D K F F S P		
UniRef90_Q9E1Y4	R E T T T D E G T F F R H V A I C C V I G R R R R G T L L A I Y G R D P G W M L D R F F P		
UniRef90_Q9DPR1	Q G E E H P D Q T L F V H V V A L C C V I G K R R M G T V V N Y D S T P E S A I I E P F F R T		
UniRef90_O36367	P G E R A D E T F F F S H V V A L C C L G K R R I G T I V T Y D F D V D H A I Q P F F T Q R F Q		
UniRef90_D1FXV5	L G K D E P P G Q V F H H I V S S L C A L G R R R R G T L V A V Y G D S L A W V L S R F F Q		
UniRef90_P54817	P D E E D P D D T L F A H V V A L C A I G R R R V G T I V T Y D V T P E A V V I A P F F R		
UniRef90_U3GQ23	P D E E A D G T L F A H V V A L C V L G R R R V G T I V T Y D A T P D A C V A P F F R		
UniRef90_Q9DW1C	D T E N L D E T F F N H V S I C G G A G G L R R R G T L L A V Y G R D D L D W T V E K F F K D		
UniRef90_J9QYN0	A D D E P P G F F R H V V S L C C A L G R R R R G T L L A V Y G R D R G R W V D F R F F P		
UniRef90_G8XUE6	A G G E P P R R G L F R H V V A L C A I G R R R V G T I V T Y D V S V S G A I A P F F Q		
UniRef90_P52351	D S T A V G R Y F K H V V A I C C S V G R R R R G T L L A V Y G R D V D W I L D R F F P		
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UniRef90_H2A2B1	A A D S A S G D A F K H V V A L C S S V G R R R R G T L L A V Y G R D R D R W I V M E R F F P		
UniRef90_Q8BAH4	E A E T D S D G G F F R H V V S L C C G L G R R R R G T L L A V Y G R D R D R W I V M E R F F P		
UniRef90_P09286	V D E E V D S T F V S H V V S L C C I L G K R R V G T I V V Y H F D P A S S V V A A F F D		
UniRef90_Q5Y966	P N E I P D G N F F T H V V A L C V V G R R R V G T I V V N Y D C T P E S S V I E P F F R E		
UniRef90_G8XSY5	P E E A D E R F F V H V V S L C M L G R R R Q G T I A I Y D E T A S K A V S L F F E P		
UniRef90_Q18LE3	N A A D D G D G R Y F K H V V A L C S V G R R R R G T L L A I Y G R S L P W I I S K F F S P		
UniRef90_Q91TL5	V S P S E T R P F F R H V V S L C C G L G R R R R G T L L V A Y G R S L P W I I S K F F S P		
UniRef90_P23984	C G R E P E A A F F R H V V A L C C G V G R R R R G T L L A M Y G R D P T W V V D R L A D		
UniRef90_Q6UDK6	K N E V P G K D F F A H V V A L C E I G R R R E G T V A I Y G A T S A E A G A F D E S		

lupas_21
lupas_14
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jnet
conf
sol25
sol5
sol0
jhmm
inssm



QUERY
 UniRef90_U5NIU5
 UniRef90_Q9YTP9
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A G F I	K N R L	E I L	K T D K G V A E V K A P T Y L K A		
A S F I	S N R L	K L L	Q M D K W A A N I D P S T Y L K A		
A G F I	R D R T	D L L	K T D K G V A R V A R S T Y L K A		
A S F I	Q N R L	L D L	K T D R Q V A A V K Q S A Y L K A		
A S Y I	K E R L	E L L	R T D K G V A S V R Q P T Y L K A		
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S M M L	R D R W S L	V S	S E R R R Q A G I A G H T Y L Q A		
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A C F I	N N R L	K L L	K M D R L T A N I D H S T Y L K A		
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A G F L	R N R V E T L	R Q D R G V A N I P A E S Y L K A			
N M L L	R N R W N L	V A	R R R R E A G I E G H T Y L Q A		
A G F I	Q N R L	D I L	Q T D K A V V A V S P S T Y L K A		
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A L Y I	R E R L P K L	R Y D K Q L V G V	T R E S Y V K A		
N M L L	R D R W R T I	I S S R R R M A G I S G Q K Y L Q A			
N M L L	R D R W E L V	A A R R R E A G V R G H T Y L Q A			
N M M L	R D R W S V	V A E R R R Q A G I A G H T Y L Q A			
A S F I	R D R L T T L	Q A D R H A A G V S A A T Y L K A			
A S Y I	R E R F P K L	Q Y D K H I L R K D	G T Y I K A		
D G Y I	A E R L C R L	R Y D K R L L G L	S S S T Y V K A		
T S Y I	R E R F P K L	D Y D K R V L R I	P P D T Y V K A		
N M L L	Q D R W E L V	K R R R M E A G I S G H I Y L Q A			
N M L L	R D K W R I I	S E R R R L A G I V G Q K Y L Q A			
A G F I	S N R L S T L	K I D R Q A A G I S P A T Y L K A			
S M L L	K D R W D L	V A K R R K E A G I S G H L Y L Q A			
N M L V	R D K W D T V	S R R R R E A G I A G H T Y L Q A			
I S Y I	D K R F E K L	K Y D K K V G G I K S S T Y I K A			
D A Y I	A E R L G R L	R Y D K R V L G L S R E T Y V K A			
S M M L	R D R W S L V	S E R R R Q A G I A G H T Y L Q A			
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A L Y I	Q E R L P K L	R Y D K R L V G V T A E S Y V K A			
D G Y I	A E R L C R L	R Y D K R L L G L S K E T Y V K A			
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I T C I	D R R K N T L	S Y D K K L A C L D N E S Y V R A			
T A Y I	R E R F P K L	E Y D K K V L R V G P D T Y I K A			
G A F L	M D R G T C L	K T R R E M A A V Y N P K Y L Q A			
N A F L	M D R G E Y L	R A R R H L A D V R R P K Y L Q A			

