

QUERY
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UniRef90_Q84122
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UniRef90_Q1XF29
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UniRef90_Q6Q4A9
UniRef90_Q77N14
UniRef90_P69474
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UniRef90_Q70P76
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UniRef90_U3SXU4
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UniRef90_Q86705
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UniRef90_M4Q017
UniRef90_Q5G7A5
UniRef90_F8ULT8
UniRef90_Q91KP8
UniRef90_Q9I1Z93

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

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

Sequence alignment diagram showing the evolution of a protein sequence over time. The top row shows a sequence of numbers (9, 9, 8, 8, 8, 7, 7, 5, 3, 0, 1, 2, 0, 5, 7, 7, 7, 7, 4, 5, 7, 8, 9, 9, 9, 9, 9, 9, 9, 8, 7, 4, 3, 7, 8, 7, 5, 5, 3, 4) above a sequence of letters (B, B, B). Below this, a sequence of numbers (50, 60, 70, 80) is aligned with a sequence of letters (V, V, V, V, Q, R, Q, F, S, E, V, W, K, P, S, P, Q, V, T, V, R, F, P, D, S, D, F, K, V, Y, R, Y, N, A, V, L, D, P, L, V). A yellow arrow points from the first sequence to the second. Below the second sequence, another yellow arrow points to a third sequence, which is identical to the second but with a few changes highlighted in red.

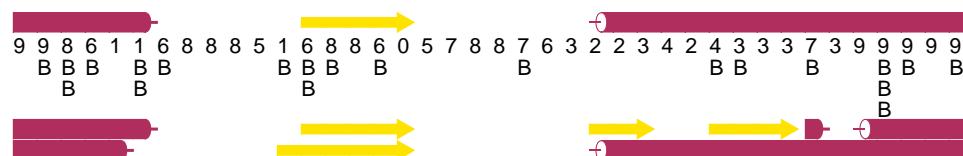
lupas_21
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UniRef90_U5XN01
UniRef90_Q7LZZ8
UniRef90_Q6QDD3
UniRef90_Q6Q4A9
UniRef90_Q77N14
UniRef90_P69474
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UniRef90_P03581
UniRef90_F8UKG4
UniRef90_Q70P76
UniRef90_A0PFL5
UniRef90_U3SXU4
UniRef90_G9CU46
UniRef90_G9I490
UniRef90_Q86705
UniRef90_F1CWG4
UniRef90_M4Q017
UniRef90_Q5G7A5
UniRef90_F8ULT8
UniRef90_Q91KP8
UniRef90_Q9IZ93

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T A L L G A F D T R N R I E V E N Q A N P T T A E T L D A T R R V D D A T V A																																								
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T F L M G T F D T R N R I E V R N P Q N P T T T E T L D A T R R V D D A T V A																																								
T S L L N S F D T R N R I E V E N P P N P T T N G E I M S A T Q R V D D A T V N																																								
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D S L F G A [] D S R N R A I E V E N P S N P S T G E A L N A V K R N D D A S T A																																								
V S L L S S T D T R N R I V E V V D P S N P T T A E S L N A V K R T D D A S T A																																								
H A V F Q A Q L D T R N R I I E V E N V V N P T S S E T R E A T R R V D D A T V A																																								
K A L L Q S L D T R N R V I E V D N P S N P T T A E S L N A V Q R T D D S T V S																																								
T A L L Q S T D T R N R V I E V E N S T N V T T A E Q L N A V R R T D D A S T A																																								
G A L L K A T D T K N R I E V D N E R N P S N N E I E S V T R R V D D A S V A																																								
F A L L A Q A C D T K D R I F E V G D N R G V T S A E T K L A T Q R R V D D A T I A																																								
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UniRef90_G9I490
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UniRef90_F1CWG4
UniRef90_M4Q017
UniRef90_Q5G7A5
UniRef90_F8ULT8
UniRef90_Q91KP8
UniRef90_Q9IZ93

	130										140										150									
I R S A N N L I V E L I R G T G S Y N R S S F E S S S G L V W T S G P A T																														
I R S A N N L L V N E L I V R G T G L Y N Q N T F E S M S G L V W T S A P A S																														
I R A S I S N L M N E L I V R G T G M Y N Q A L F E S A S G L T W A T T P																														
I R A S I S N N L A N E L I V R G T G M F N Q A G F E T A S G L V W T T T P A T																														
I R A S A N N L L N E L I V R G N G M Y N Q V S F E T M S G L T W T S S																														
I R A S I T N L M N E L I V R G T G F L N R S S F E S T S G L T W S T A P T T																														
I R A C N N L M N E L I A R G T G M L N T V S F E T I S N L T W T T A A T T																														
I R A C N N L M N E L I A R G T G M L N T V S F E T I S N L T W T T A A T T																														
I R S Q Q L L L N E L I S N G H G L M N R A E F E V L L P W A T A P A T																														
I R G A L Q R L S D E L N R G S G Y M N R S F E T I L L W S A A T A																														
I R R S S Q N N L C N E L I T R G T G F L N Q A T F E E A S Q L T W T A R T T																														
I R S A I N N L L N E L I V R G T G M Y B Z S T F Z V M G W T S S L S T																														
I H K E I D N I L L L L I Q G G T A V Y D R T A F E V A S G L S W A D P																														
A H N D I P Q I L S A L I N E G A G V F D R A S F E S A F G L V W T A G S S T																														
A R A E I D N L I E S I S K G F D V Y D R A S F E A A F S V V W S E A T T S																														
V R S Q L Q L L F D A L S G G S G L Y D R K A F E D A S G L V W E E A A A																														
S R V G G L I N L R A A I T Q G N G V V N R N S I F E S S N G L T W A T S G S S																														
I H N N L E Q L L S L L I T N G T G F V N R T S F E S A S G L T W L V T T T																														
I R N A I R T C V N I L V S A V D I Y D R T T F E D A T G W T W																														
I R S A V V N N L V N																														
I R A S I S N L M N E L I V R G T G M Y																														
I R N A I K S T L S Y L I A G E D I Y S R T S F E A A L G W I W Q E																														
I H N N L D Q L L N L L A A G T G V L D R Q S F E S T S G L T W T A Q G A																														
I R S A I N N L L V N E L I V R G T G L Y N Q N T F E S M S G L V W T S A P A S																														
A R A E I D N L I E S I S K G F D V Y D R A S F E A P F S V V W S E A T T																														
M K E T M Q P P A N K D L F D R D S F E K F F N L T W																														
I R S A I N N L F R N Y L E V L D C T I R T F E S S L G C L F																														
Q R N A V R D L R D I E L A V V D Q F D Q V I F E D V F K L T W T P A																														

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