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[illegible]

S E E E D K I K L Q T Q L E E L K E A A L Q V E Q Q A N A E I D A K E L F R Q L Q L E L K . . K K G K D H R L A G G F A S N Q S . D K H N L N E R L N L T R R E E E L A T N E K H K K K L Q K M Q  
 S E E E K M K L Q T Q L E E L K E A A L Q V E Q Q A N E K I D A K E L E L R Q L Q M E L K . . K K G K D H R L A G G F A S N Q S . D K H N L N E R L N L T R R E E E L A T N E K H K K K L Q K M Q  
 S E E E K I K L Q T Q L E E L K E A A L Q V E H I Q A N A E I D A K E L R L Q L Q L E L K . . K K G K D H R L A G G F A S N Q S . D K H N L N E R L N V L T R R E E E L A T N E K H K K K L Q K M Q  
 S E E D K V K L Q T Q L E E L K E A A L Q V E Q Q A N A E I D A K E L E L R L Q L Q L E L K . . K K G K D H R L A G G F A S N Q S . D K H N L N E R L N L T R R E E E L A T N E K H K K K L Q K M Q  
 G S E E D K R K L Q S Q L E E L K E A A L Q V E Q Q A N A E I D A K E L E L R H L H L E L K . . K K G K D H R L A G G F V I T T Q S . D K Q N L N E R L K H L T R R E E E L A S N E K H K R K I L K M Q  
 A S E D E K R K L Q T Q L E E L K E A A L Q V E Q Q A N A E I D A K E L V R Q L Q L E L K H L Q K G K D Q R L T G C Y A C I P S . D K R N L N E R L N Q L T R R E E E L A T N E K H K K K L H K M Q  
 G S E E E K R K L Q T Q L E E L K T A A L Q V E Q Q A N A E I D A K E L R L Q L H L E L K . . K K G K D H R M P G G L A S N Q S . D K R N L N E R L N L T R R E E E L A T N E K H K R K L Q K M Q  
 D C E E D K R K L Q T Q L E E L K E A A L Q V E Q Q A N A E I D A K E L E L R H L Q L E L R . . K K G K D Y R L A G G F A S N Q S . D K H N L N E R L N V L T R R E E E L S T N E K H K K K L Q K M Q  
 G S E E E K R K L Q T Q L E E L K E A A L Q V E E Q A N T E I E A R E Q E I R Q L Q Q D L K H L Q F G K H N R L A G G T A S N Q A S D K H N L N E R L N L T R R E E E L A T N E K H K K K I N K M Q  
 E T Q E D N K K L Q M Q L D E L K E A A L Q V E E M A N A E I D A K E L I K Q M Q S E I K M L Q K S K D H R L Q G G Y C G I P G . D N R N M N E R L N V L T R R E E E L S T N E K H K K K L A Q M Q  
 E T Q E D N K K L Q M Q L D E L K E A A L Q V E E L A N S E I D A K E L E I K Q M Q S E I K L L Q K S K E Y R L Q G G F C G T Q S . D N R N M N E R L N V L T R R E E E L S T N E K H K K K L A Q M Q  
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[illegible]

EDLVQMRQRVASVQTEIDQLKTENGQITMLNDQNERIIADYQSKLLVAERQRQSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRQRVASMQTEIDQLKTENDGQITMLNDQNERIIADYQSKLLVAERQRQSADVRASTLDSSRESNRSEVTQLRMDIGALRQTYISLEHEKDTLLHQ  
DDLQMRQRQVAAQSEIDKLKDENGQITMLNDQNERIIADYQSKLLVAERQRQSADVRASTLDSSRETNRSEVTQLRMDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRQRVASMQSEIDKLQKTENGQITMLNDQNERIIADYQSKLLVAERHRQSADVRASTLDSSRESNRSEVAQLRVDIGALRQTYISLEHEKDTLLHQ  
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EDLVQMRQRVATMQTEIDQLKTENSQITMLNDQNERIIADYQSKLLVAERQRQSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRQRVASMTEIDQLKTENGQITMLNDQNERIIADYQSKLLVAERQRQTADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRQRVLSMQAEIDQLKTENGQITMLNDQNERIIADYQSKLLVAERQRQSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRQRVTSLQAEIEQLKEENSQVSLNEQNDRITELQSKLLVAERQRQSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRKRITAPLEAIEIRLKTENDQISLLNQNERIITDYQSKLLVAERQRHSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
EDLVQMRKRITAPLEAIEIRLKTENGQISLLNEQNERIITDYQSKLLVAERQRHSADVRASTLDSSRESNRNEVTQLRTDIGALRQTYISLEHEKDTLLHQ  
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LDKTERAYKLEYELKDCKEKRNALEQNVKLEDQVRKLTSRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRRLMDKLSDAQVEARTLQKKLT  
LDTKTERAYKLEYELKDCKEKRNTLEQNVKDLEDQVRKLARNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENCRLRLDKLSDAQVEARTLQKKLT  
LDTKTERAYKLEYELKDCKEKRNALEQNVKDLEDQVRKLTNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRRLMDKLSGQVQEARTLQKKLE  
LDTKTERACKLEYELKDCKEKRNALEQNVKELEDQVRKLTSSNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRRLMDKLSDAQVEARTLQKKLE  
LDISKTERAYKLEYELKDCKEKRNALEQSIVKELEEQVRKLTNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRLVDKLSDAQVEARTLQNKLTA  
LDISKTERAYKLEYELKDCKEKRNALEQNVKELEEQVRKLTNRNRQRDSELTETSTESKTLRQQIVALKASRDEAISENRHLMDKLSDAQVEARTLQNKLTA  
LDISKTERAYKLEYELKDCKEKXNALEQNVKELEEQVRKLTNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRMLDKLSDAQVEARTLQNKLTA  
LDISKTERAVYKLEYELKDCKEKRNALEHSVKDLEDQVRKLARNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENRRMMDKLSDAQVEARTLQNKLTA  
LDISKTERTYKLEYELKDCQEKRNMLEQNVRELEEQVRKLTSSNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENGRLMDKLSDAQVEARTLHKKLK  
LDNKTERTYKLEYELKDCKEKRNTLEQNVKDLEDQVRKLTNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENGRLMDKLSDAQAEAKTTLQKKLK  
LDNKTERTYKLEYELKDCKEKRNMLEQNVKDLEDQVRKLARNRNRQRDSELTETSTESKTLRQQIVALKASRDEAIAENGRLMDKMDSDAQAEVKTLTMKKLK

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Drosophila melanogaster	RASVRCLERELENARDDIRVQKVDLEARKELCDKLDVERSKLNAELNDVNEIRKKLEKQCEKLRDELQQSSALINQVTNETTDLMLGRLHNDQQRHQEDDDI	989
Drosophila simulans	QASVRCLERELQARDDIRVQKVDLEARKELCDKLDVERSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALINQVTNETTDLMLGRLHNDQQRQEDDEI	989
Drosophila yakuba	RASVRCVERELEDARDEIRVQKVDLEARKELCDKLDVERSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALINQVTNETTDLMLGRLHNDQQRQEDDDI	989
Drosophila erecta	RASVRCVERDLENARDEIRVQKVDLEARKELCDKLDVERSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALINQVTNETTDLMLGRLHNDQQRQEDDDI	986
Drosophila elegans	RAATRCLERELENARDDIRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALNQITTTETTDQMLGRLHNDQQRQEDDDI	990
Drosophila ficusphila	RASLRCLERELLENARDDIRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALNQITTTETTDQMLGRLHNDQQRQEDDDI	991
Drosophila biarmipes	RASVRCLERELENARDDIRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALNQITTTETTDQMLGRLHNDQQRQEDDDI	989
Drosophila eugracilis	RASMRCLERELESARDDIRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSALNQVTNETTDLMLGRLHNDQQRQEDDDI	989
Drosophila kikkawai	RQITTRCLQRELENARDDIRVQKVDLEARKELCDKLDVEKSKLNAELSEVNEIRKKLEKQCEKLRDELQQSSAVKKVTTETTDQMDRLHSDQQRQADAGI	1000
Drosophila bipectinata	KATIRCLERDLEKAAQGDVLRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSAMKQVTTDTADQMLERLHNDQQRQEDGDI	986
Drosophila ananassae	RATIRCLERDLEKAAQGDALVLRVQKVDLEARKELCDKLDVEKSKLNAELNEVNEIRKKLEKQCEKLRDELQQSSAMKQVTTDTADQMLERLHNDQQRQEDADI	986
consensus	*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

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Drosophila melanogaster	RSKHENDRLQRQLQQTLDQLQEERVRCRHHEELAEEKFEQQVDRRLRLADRYNQARTREVSPRVPSKTL	1059
Drosophila simulans	SSKNEIDRLQRQLQQTLDQLQKERVRCRHHEELAEEKFEQQVSDRLRLADRYNQARTREVSPRVPSKTL	1059
Drosophila yakuba	RSKNEMDRLQRQLQQTLDLLQEERARSRRQEELADKFEQQVDRRLRLADRYNQARTREVSPRVPPKTL	1059
Drosophila erecta	RSKNEVDRLQRQLQQTLDQLQEERARSRRQEELADKFEQQVSELRRLRLADRYNQARTREVSPRVPPKTL	1056
Drosophila elegans	RAKYEMDRLQRQLQQTLSQLQEERIRCRHQEELANEFEEQQVCNLRRLSLAEDRFNHARSREVSPRVPSKTL	1060
Drosophila ficusphila	RAKNEMDRLQRQLQQTLDQLQEERARCRHQENLATEFEQQVDRRLRLTEDRYNQARTRAVSPRVPSKTL	1061
Drosophila biarmipes	RAKNEMDRLQRQLQQTASQLQEERSRCRHQEELANQYEEQQVDRRLRLVEDRYNQARTREVSPRVPSKTL	1059
Drosophila eugracilis	RAKNEMDRLQRQLEQTLSLLQEERARCRHQENLANEYEQQAARDLRLRLTEHRYNQARTREVSPRVPSKTL	1059
Drosophila kikkawai	RSKNEMDRLQRQLYQETLRELQEERERCRQQLANQYEEQAARDLRLRLTEDRFTRARTRAVSPRIKPSKTL	1070
Drosophila bipectinata	RARSHMQRLERQYQQALKRELQEERERCSHQERLATEYEEQQVDRRLSNLNEDRFARARSREHSPRVPSKTL	1056
Drosophila ananassae	RAKNHMERLERQYQQALKDLQEERERCSHQERLATEYEEQQVRELRLSNLNEDRFTRARSREHSPRVPSKTL	1056
consensus	*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!	

 non conserved  
 similar  
 ≥ 50% conserved