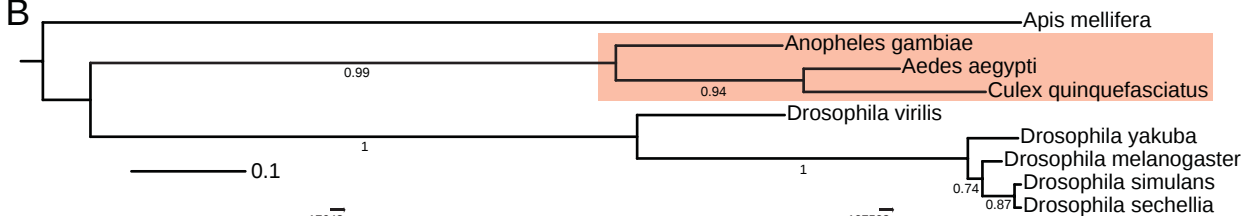


A

Apis mellifera	1	-----MVRHNIIMKMQSQTDLNLTWS-----	FDITNENSNSHDPTTEL-----NQKYS
Aedes aegypti RBD			
Aedes aegypti SID	1	-----MNSSHDGEFFALG-AGSGSSAHL-----	LSDMERSARKARKEAEQKKQAKRYE
Anopheles gambiae	1	-----PAVPGAPRAAMEDETHNRPPQOQPHQIPHSDGKLSARKARKEAEQKKQAKRYE	
Culex quinquefasciatus	1	MPNFVEVGPKSDSNRAGKLAPEDLSAKWTLQVAESINQPOYSSEAGGGLAALGVVGNGPPOLP	LSDELKSSARKRKEAEQKKQAKRYE
Drosophila simulans	1	-----MSEKTRILH-----	YNTDRSRNDVDQDTAIKITPRSSKYY
Drosophila yakuba	1	-----MTF-----	HSTDKRIQKQDVQDSSTKITPRSSKYY
Drosophila melanogaster	1	-----MTEKT-----	YNTDRSRNDVDQDTAIKITPRSSKYY
Drosophila sechellia	1	-----MSEKTRILH-----	YNTDRSRNDVDQDTAIKITPRSSKYY
Drosophila virilis	1	-----MSRHDKLNIIDGGT-----	YQILKKDNGNSTPKYVL-----RSKYY
Apis mellifera	42	FTENDRLMLNNFEYPELDGRIYIKGKSKI-IPRENTLCANMKNQVPKRLRLYMGNL-----	GFNPSR---LD
Aedes aegypti RBD			
Aedes aegypti SID	52	EQLKKTRGPKSQIKQIMIDESFLEKYHTAQLPPGPTLTKTKRSKTKTPSDVVQINLSQCTIRDRLSLVDKGETSGSGELALVKPVVPTTATIQPATVLF	
Anopheles gambiae	59	EQLKKTRGPKSQIKQIIDESFLEKYRHVQSLPPGPTLTKTKRSKTKTPSDVVQINLSQCTIRDRLSLVDKGETSGSGELALVKPVVPTTATIQPATVLF	
Culex quinquefasciatus	92	EQLKKTRGPKSQIKQIIDESFLEKYHQAQTLPPGPTLTKTKRSKTKTPSEMVQLNLSQDLRDRLSLAEKGLDPSGELALVKPVVPTTATIQPATVLF	
Drosophila simulans	37	NQHRK-REQQTSLLD-FVVK-PRP-KTORQTKAHKLEKTRLTITRA	SYIVYK----
Drosophila yakuba	39	SQHRK-PEQASLLD-FVVK-PRP-KSORQTKAHKLEKTRLTITRA	SYIVYK----
Drosophila melanogaster	29	NQHRK-REQQTSLLD-FVVK-PRP-KTORQTKAHKLEKTRLTITRA	SYIVYK----
Drosophila sechellia	37	SQHRK-REQQTSLLD-FVVK-PRP-KTORQTKAHKLEKTRLTITRA	SYIVYK----
Drosophila virilis	38	NKHK-REQQTSLLD-FLVV-PR-KQKQINKORPHLVARKG	VALQTKR----
Apis mellifera	108	KMCSDLRKVRICISKDKPKSKLRILLNLNNKAQINNEKREE-FERKKVEAICRDVDTIDNALKISAE	PEIDYVRNMWTH-ALDYKNYRNINDIN
Aedes aegypti RBD			
Aedes aegypti SID	150	KGKQRE-TPKEKLSKLKEININNRKSK-QDGGQOPVOGETEDITPGSGSQVTEGVVILINGHAEHMPAVGGV-SPFLLK-ATERRCC	
Anopheles gambiae	146	KGKQRE-VPEKKLTRLKKDILRSRTEKAPGDDGQGSAGNAGGAQOPVPAEKGKANGGLKSSAETS-PSGGAVDVSFLLK-ATERRCC	
Culex quinquefasciatus	188	KGKQRE-VPEKKLTRLKKDILNNRKAQ-ODEGTAP-VAEAVGTESSSPQVAE-EVAQPSQFING-PKLGE-SFLLK-ATERRCC	
Drosophila simulans	86	KGKTRL-DPK-KKITRLKRSRVYRTSK-KAERE-VAENDLEGVPVVGIDINPTAI	PLEQ-QVQNLS
Drosophila yakuba	78	KGKTRL-DPK-KKITRLKRSRVYRTSK-KAERE-VTEGELEGVPEKDD	IPVEQ-QVQNLS
Drosophila melanogaster	78	KGKTRL-DPK-KKITRLKRSRVYRTSK-KAERE-VAENDLEGVPVVGIDINPTAI	PLEQ-QVQNLS
Drosophila sechellia	86	KGKTRL-DPK-KKITRLKRSRVYRTSK-KAERE-VSNDLEGVPVVGIDINPTAI	PLEQ-QVQNLS
Drosophila virilis	83	KGKTRL-HPK-RRARLKRIRKYNRK-QHRDE-DNYVEPLQSSQELISPTI	EVIT-NLRCLS
Apis mellifera	204	ISDNTLCHRPDIERINDLGIQGHQTLNRLTSLQINDIKSEVQTSTEIDDKNFLKFSRNRE	YCTNLTGKLNDALEEFLEITRLQRRFHEKNPN
Aedes aegypti RBD	1		YCDHLITDELRLDAENVVTLTLEQGSNAKGNPT
Aedes aegypti SID	233	STE-EMVPPAIGSEYQNGFPALN-DTTVKVSE-EKS	LH-CRAFRIT
Anopheles gambiae	232	INDGP--PPSRDSSEYQNGFSLR-VSAAVSR-PTA	LRHSRNFRP
Culex quinquefasciatus	267	STDGDDVPPSVGSEYQNGFPALN-DTVAKVPKEKG	VOHSRAFRIT
Drosophila simulans	148	LSK--TPALN-DLSQAKT-VHA	IH-SRRFRS
Drosophila yakuba	134	LSE--TAAPK-DQLQATA-VHS	IH-SRRFRS
Drosophila melanogaster	148	LSK--TPAPN-NPSQAKT-VHA	IH-SRRFRS
Drosophila sechellia	148	LSK--TPALN-DLSQAKT-VHA	IH-SRRFRS
Drosophila virilis	143	LND--VVSQPASS-AHQ	IH-SRRFRS
Apis mellifera	302	SKSYKRRYSGLKEVRKHVELKLLKLVIIAPDIEKVELEDGLDDVDKLVDTQRKNVVFQGLRRRLKGYTHGNQVFGVIGTIANVGIETLLFKNVL	
Aedes aegypti RBD	36	KAVSNRYCVGENEVLKHLETRKIKLVIIAPDLE-PNDS-IDQLVERVKTICRQARVYFAIKRRKMGHLLKVPVSYGIDVDNPKRMLE	
Aedes aegypti SID			
Anopheles gambiae	307	KAVANKRFVGFNEVLKLEIRKRVLVIIAPDLE-PNET-IDQVANKVMCLRSQVPLYALKRRKTIQGHLLKKAATSCQGVLSVAGCDDTVQKMLS	
Culex quinquefasciatus	347	KAVSNRYCVGFNEILKYLETRKIKLVIIAPDLE-PNDS-IDQLVERVKTICRQTRVTVFGVKRRKLGHLLKVPVSYGIDVDNPKRMLE	
Drosophila simulans	208	KARAHPRLVLGVREALARLRINKVKLLFLATDCEICPGESGLDQATIEGLKFCQCCQKQVPCYCFPLLRRELSYALQKRAQISCAVLDYFGANATYADLLN	
Drosophila yakuba	194	KARAHPRLVLGVREALARLRINKVKLLFLATDCEICPGESGLDQATIEGLKFCQCCQKQVPCYCFPLLRRELSYALQKRAQISCAVLDYFGANATYADLLN	
Drosophila melanogaster	208	KARAHPRLVLGVREALARLRINKVKLLFLATDCEICPGESGLDQATIEGLKFCQCCQKQVPCYCFPLLRRELSYALQKRAQISCAVLDYFGANATYADLLN	
Drosophila sechellia	208	KARAHPRLVLGVREALARLRINKVKLLFLATDCEICPGESGLDQATIEGLKFCQCCQKQVPCYCFPLLRRELSYALQKRAQISCAVLDYFGANATYADLLN	
Drosophila virilis	200	KARAHPRLVGFRESLSRLRLINKVKLLFLAPDCMCPAPGGLDITIDELKLVQDQQRVPCYCSLMRELAALRKRAQISCAVLDYFGANATYADLLN	
Apis mellifera	401	ELVARNAKKLNGAIEITDIDISKVTSDDFLLSENINALLKVLSDQKTN	
Aedes aegypti RBD	132	IADHERVSYRNVSAGK	
Aedes aegypti SID			
Anopheles gambiae	403	VVEQERESYRTLMDVGAIPC	
Culex quinquefasciatus	443	LAEQERNVLRQAQLASGH	
Drosophila simulans	307	EIEDARAIEYKRTAS	
Drosophila yakuba	293	EIEDARAIEYKRTAS	
Drosophila melanogaster	299	EIEDARAIEYKRTAS	
Drosophila sechellia	307	EIEDARAIEYKRTAS	
Drosophila virilis	299	ELDVARYQYKCLTAT	

B



C

