	1 10	20	3 0	40	50	60
Apis_Fem_ABU68668 Apis CSD ABU68670	.MKRNTTNHSHHDER					
Bombus_Fem_ABY74329 Nasonia Fem ACF08858	.MKRNVSNHSHRDER	LRLSRNGNYEAG	LR.RTEEERLRR	RRE.WMIEQQ	RLREHEKLKEK	KILEYEIRRA
Solenopsis_TraA	MHPLRSTTFKGDEES					
Solenopsis_TraB	70	80	90	100	110	120
Apis_Fem_ABU68668	REKK					
Apis_CSD_ABU68670 Bombus_Fem_ABY74329	REIEKL	SRS.KSKSKSTE	NRHRTVTSN.TS	NTSILSKKLE	P <mark>S</mark> DGTTP <mark>LF</mark> KG	P.EGTQVSAA
Nasonia_Fem_ACF08858 Solenopsis_TraA	EQLGLNRKRRSPHRS: QDLKYAKEKSSCHSR	SKSSSESPSHHF	YRDRSTSIT.SK	SGSLHEKLDG	STSGSVPLFRG	P.ENAQINTM
Solenopsis_TraB			160		RTIGAIFEN 180	1.KKTQIN.T
Apis_Fem_ABU68668	ELRKIKVDIHRVLPG	KPTTT <mark>S</mark> DELKR	IINPEDVMLK R R	TGEGSKPIFE	REEIKNILNKT	NEITEHRTVL
Apis_CSD_ABU68670 Bombus_Fem_ABY74329	ELQKIELEIRRDLPG ELRRIKVDIHRNVPG	K ATTDDLORI	IINPEDVLVKRG	EGEGSKPIFE	REEIKGTTVKA	DEIVERRTVV
Nasonia_Fem_ACF08858 Solenopsis TraA	ELRQVVVNIHRKIPA ELRRIKVDIHRNIPV	S.ATETSEIR <mark>R</mark> I KGPVSELE <mark>R</mark> I	IVNHEEITLKRR ILNPEDVIVKRR	DGEGAKPIFD EGEGCKPIFD	REELKQFEAKS REEIKRAVAKT	IEVEERRTIE NEVEERRTVV
Solenopsis_TraB	ELRQIKVTVHRDISV	KGHVTEIQR	ILNPEDIIVTRR	NGEGCKPIFD	RDEIKQA <mark>VVK</mark> T	VNICMEEPTK
Apis Fem ABU68668	200 2 AVNIEKSENETKTCK	10 220 KVATSSNST.PSE		•	•	
Apis_CSD_ABU68670	VVNIKKSGNESK	KY <mark>ATSS</mark> NSLRSF	THGFQHTSS	RY <mark>S</mark> R	E	RSCSRDRNRE
Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858	VLNNENLESKSKVNK AVG.KNSLVKRSYAK	RR <mark>SKSL</mark> SPRRHF	SPSPHAHGH	SGSRLYTHR.	SRHDEYS	RHQLEDRHYK
Solenopsis_TraA Solenopsis_TraB	AIDKEQSASVMKAYT STTDEEELALSNSET					
	270	280	290		300	310
Apis Fem ABU68668	YKKKDRRYDQLHN <mark>VE</mark>	- V II I D	VCDCD			
Apis CSD ABU68670						
Apis_CSD_ABU68670 Bombus_Fem_ABY74329	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE	EKL <mark>LEER</mark> TSRKF EEH <mark>LRER</mark> KGHRI	Y <mark>S</mark> R <mark>SR</mark> HSRSR	E R E Q	NSYKNER WVRDSNHRSSK	EYRKY <mark>R</mark> ETSK DERSYRERSR
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK	EKL <mark>LEERT</mark> SRKF EEHLRERKGHRI RDE <mark>SRRR</mark> SSRG HD. <mark>NRSR</mark> SKEPF	YSRSR PHSRSR RSHSR NSHSRSFIEERS	EREQ .EREQRA .EREYHRDE YRDRYRERSN	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS	EKL <mark>LEERT</mark> SRKF EEHLRERKGHRI RDE <mark>SRRR</mark> SSRG HD. <mark>NRSR</mark> SKEPF	YSRSR PHSRSR RSHSR NSHSRSFIEERS	EREQ .EREQRA .EREYHRDE YRDRYRERSN	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK 320 ERSRDRR	EKLLEERTSRKF EEHLRERKGHRI RDESRRRSSRG HD.NRSRSKEPF HDTIRLRSREQF 330 ER.GRSREHRII	YSRSRHSRSRRSHSRRSHSR.SRLFTDEKF	EREQA EREYHRDE YRDRYRERSN YHDRYRERSY	NSYKNER WVRDSNHRSSK HDYSRSSKSEK EYSYERRDSDR KRSHERRESDR 340IEQTPVPV	EYRKYRETSK DERSYRERSR EYREYRGRSK DRORDRDRDR DRORDRDRDR DRORDR DRORFRSRSR
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK 320 ERSRDRR GRSRDRR	EKLLEERTSRKF EEHLRERKGHRI RDESRRRRSSRG HD.NRSRSKEPF HDTIRLRSREQF ER.GRSREHRII ER.DRSREHRIE	Y SRSR	EREQA EREQR.AA EREYHRDE YRDRYRERSN YHDRYRERSY HY. NYNSKKLYYN	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR KRSHERRESDR 340IEQIPVPV IINIEQIPVPV	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR DRDRFRSRSR YYGNFP PVPIYCGNFP
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK 320 ERSRDRR GRSRDRT ERSRDRR DRSYDRR	EKLLEERTSRKF EEHLRERKGHRI RDESRRRSSRG HD.NRSRSKEPF HDTIRLRSREQF 330 ER.GRSREHRII ER.ERSKETKII ER.DRSREHRIF DRRDSSRERRLF RDRDRDRDRDRNR	YSRSR	EREQA .EREQHADE YRDRYRERSN YHDRYRERSY HY. NYNSKKLYYNQYRDRSRERR	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR KRSHERRESDR IEQIPVPV IINIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPV	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR DRDRFRSRSR YYGNFP PVPIYCGNFP YSAGFA PVPIYYGSFP
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB	Y R K K D R Q Y E K L H N E K Y K E T V K R H S Q L N T A E D H K N D R H Y S D L R D T T K Y S K Y K E K Y I E K D T T K S R D R R G R S R D R R E R S R D R T E R S R D R R D R D R D R D R D R D R E R S Y D R R D R D R D R D R D R D R E R K D E Y F H E S K A K D	E K L L E E R T S R K F E E H L R E R K G H R I R C R S R C R R S S R C R C R S R E P R I E R C R S R E R L F R C R C R C R C R C R C R C R C R C R	PS	EREQ EREQRA EREYHRDE YRDRYRERSY HDRYRERSY HY. NYNSKKLYYNHYRDRSRERR	NSYKNER WVRDSNHRSSK HDYSRSSRSE EYSYERRDSDR KRSHERRESDRIEQTPVPVIEQTPVPVIEQTPVPVIEQTPVPPDIEQTPVPPDDIAPHYIESPI DATPH.IGPPI	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR DRDRFRSRSR YYGNFP PVPIYCGNFP YSAGFA PVPIYYGSFP
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB	Y R K K D R Q Y E K L H N E K Y K E T V K R H S Q L N T A E D H K N D R H Y S D L R D T S H R E Y K D K Y T E R D T T K Y S K Y K E K Y I E K D T T K S R D R R G R S R D R R G R S R D R R D R D R D R D R D R D R D R D R D R	E K L L E E R T S R K F E E H L R E R K G H R I R R S S R G H R I R I R S R E Q F R I R I R I R I R I R I R I R I R I R	Y S R S R	EREQ EREQRA EREYHRDEN YNDRYRERSY YNDRYRERSY HY. NYNSKKLYYN QY. QY. RDRSRER EGRNRSRERR	NSYKNER WVRDSNHRSSK EYSYERRDSDR KRSHERRESDRIEQIPVPV IINIEQIPVPVIEQIPVPVIEQIPVPPIEQIPVPPIEQIPVPPDIEQIPVPPDIAPHYIESPI DATPH.IGPPI 390	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDDRDRDR DRDRFRSRSR YYGNFP PVPIYCGNFP YYGDPP YYSGFP PVPIYYGSFP PAPTHHNNFP
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB 3 Apis_Fem_ABU68668 Apis_CSD_ABU68670	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK 320 ERSRDRR GRSRDRRT ERSRDRRT DRSYDRR DRSYDRR DR.DRDRDRDRDRDRDRDRDRDRDRDRDRDRDRDRD	EKLLEERTSRKF EEHLRERKGHRI RDESRRRRSSRE HDD.NRSRSKEPF HDTIRLRSREQF 330 ER.GRSREHRII ER.ERSKETKII ER.DRSREHRIF DRRDSSRERRLF RDRDRDRDRNRI RNRDWDKDEIRI QUVPGS	Y S R S R	EREQA .EREQR.A .EREYHRDE YRDRYRERSN YHDRYRERSY HY. NYNSKKLYYNQYRDRSRERR EGRNRSRERR EGRNRSRERR O. RFIPP RFIPP	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR KRSHERRESDRIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQ	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR DRDRFRSSRSR YYGNFP PVPIYCGNFP YYGDFP YYSAGFA PVPIYYGSFP PAPTHHNNFP
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraA Solenopsis_TraB 3 Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK SRDRR ERSRDRR ERSRDRR ERSRDRR ERSRDRR ERSYDRR DRDRDRDRDRDRDRDR DRDRDRDRDRDRDRDRD ER.KDEYFHESKAKD PRPIMVRPWVP.MRG PRPMG.PWIS.IQE PRPIMVGPLVPIRG	E K L L E E R T S R K F E E H L R E R K G H R I R D E S R R R S S R C H H D I R L R S R E H R I I E R . D R S R E H R I I E R . D R S R E H R I I E R . D R S R E H R I I E R D R D R D R N R I R N R D W D K D E I R I C D R D R D R N R I R N R D W D K D E I R I C D R D R D R N R I R N R D W D K D E I R I C D R D R D R N R I R I R D R D R D R D R N R I R I R D R D R D R D R N R I R I R D R D R D R D R N R I R I R D R D R D R D R N R I R I R I R D R D R D R D R N R I R I R I R D R D R D R D R D R D R I R I	Y S R S R	REQA .EREQ.R.A .EREYHRDE YRD RYRERSN YHDRYRERSNHY. NYNSKKLYYNQYRDRSRERR EGRNRSRERR EGRNRSRERR O RFIDP RFIDP RFIDP	NSYKNER WVRDSNHRSSK HDYSRSSRSEK EYSYERRDSDR KRSHERRESDR 340IEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPVIEQPPI DATPH.IGPPI 390 .DMYRLRPPLN .DMYRLRPPLN ODMYRAGLPSD	EYRKYRETSK DERSYRERSR EYREYRGRSK DRDRDRDRDRDR DRDRFRSSRSR YYGNFP PVPIYCGNPP YSAGFA PVPIYYGSFP PAPTHHNNFP
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Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraA Solenopsis_TraA Solenopsis_TraA Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Apis_Fem_ABU68668 Apis_CSD_ABU68670	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK YSKYKEKYIEKDTTK SRDRR GRSRDRR GRSRDRT ERSRERR DR.DRDRDRDRDRDRDR DRDRDRDRDRDRDRD ER.KDEYFHESKAKD PRPIMVRPWVP.MRG PRPMGPWIS.IQE PRPIMVGPLVP.IRG PRPMLVGPAIPPIRG PRPIVVSPMVP.LRG PRPIVVSPMVP.LRG PRPIVVSPMVP.LRG PRPIVVNSMLV.LRE 400 PRFGPMY	EKLLEERTSRKEEHLRERKGHRI REHLRERKGHRI ROESRRERSSREHDILRESREVEN 330 ER.GRSREHRII ER.ERSKETKII ER.DRSREHRII ER.DRSREHRIE RORDRDRDRDRNRI RNRDWDKDEIRI QUPGS QUPGS QUPPLGGF QUPPLGGF QUIPPLGPLRRPI	Y S R S R	EREQA. EREQR.A.A. YERERSY YHDRYRERSY NYNSKKLYYNHY. NYNSKKLYYNKDRSRERR GRNRSRERR PRFIPP RFIPP RFIPP RFIPP RFIPP RFIPP	NSYKNER WVRDSNHRSSK HDYSRSSRSC EYSYERRDSDR KRSHERESDRIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPP INIEQIPVPPIEQFPI DATPH.IGPPI DATPH.IGPPI DATPH.IGPPI ODMYRLRPPLN ODMYRLRPPLN ODMYRLGHPPPN	EYRKYRETSK DERSYRERSR EYREYRGRSR EYREYRGRSR DRORDRORDR DRORDR GRSR DRORDR P YYGN P PVPIYCGN P Y YYGD P Y YSGF P PVPIYYGS P PAPTHHNN P
Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraB Apis_Fem_ABU68668 Apis_CSD_ABU68670 Bombus_Fem_ABY74329 Nasonia_Fem_ACF08858 Solenopsis_TraB Apis_Fem_ABU68668	YRKKDRQYEKLHNEK YKETVKRHSQLNTAE DHKNDRHYSDLRDTS HREYKDKYTERDTTK YSKYKEKYIEKDTTK YSKYKEKYIEKDTTK YSKYKEKYIEKDTTK SRDRR GRSRDRT ERSRDRT ERSRERR DRDRDRDRDRDRDRDRD ER.KDEYFHESKAKD PRPIMVRPWVP.MRG PRPMG.PWIS.IQE PRPMLVGPAIPPIRG PRPMLVGPAIPPIRG PRPIVVSPMVP.LRG PRPIVVSPMVV.LRE 400 PRFGPMY	EKLLEERTSRKEEHLRERKGHRI RDESRRRSSRG RDESRRSRSKEPHDTIRLRSREQE 330 ER.GRSREHRII ER.ERSKETKII ER.DRSREHRIE RDRDRDRDRDRDRNRI RNRDWDKDEIRI QUPPEGGF QUPPLGGF QIPSMGRGRHPI QIPPLGPLRRPI	Y S R S R	EREQA. EREQR.A.A. YERERSY YHDRYRERSY NYNSKKLYYNHY. NYNSKKLYYNKDRSRERR GRNRSRERR PRFIPP RFIPP RFIPP RFIPP RFIPP RFIPP	NSYKNER WVRDSNHRSSK HDYSRSSRSC EYSYERRDSDR KRSHERESDRIEQIPVPVIEQIPVPVIEQIPVPVIEQIPVPP INIEQIPVPPIEQFPI DATPH.IGPPI DATPH.IGPPI DATPH.IGPPI ODMYRLRPPLN ODMYRLRPPLN ODMYRLGHPPPN	EYRKYRETSK DERSYRERSR EYREYRGRSR EYREYRGRSR DRORDRORDR DRORDR GRSR DRORDR P YYGN P PVPIYCGN P Y YYGD P Y YSGF P PVPIYYGS P PAPTHHNN P