

head_contig_22785	-----FPGLTKHSDEENVYIHPSFVTDLTLD-PH-----	
antennae_contig_18354	-----EEKNNGI-YEEVIV-----	
gut_contig_34289	-----EEKNNGI-YEEVIV-----	
legs_contig_18143	-----LPYAEEKNNGI-YEEVIV-----	
snout_contig_25043	-----EEKNNGI-YEEVIV-----	
wings_contig_17859	-----QQYTIIEDEEDIYRQDSIV-----	
snout_contig_8906	-----QQYTIIEDEEDIYRQDSIV-----	
snout_contig_6533	-----QQYTIIEDEEDIYRQDSIV-----	
fat-body_contig_18846	-----QPYPPIEDEENAYRQDSIV-----	
head_contig_1816		-----MFKFV-----
gut_contig_36950		-----MKLFSVFMLV-----
gut_contig_19714		-----MKFLHIFVFV-----
head_contig_1777	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
thorax_contig_875	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
wings_contig_282	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_679	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
gut_contig_1217	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
abdomen_contig_7701	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
antennae_contig_4063	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
gut_contig_631	-----VALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
snout_contig_872	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
thorax_contig_5237	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_17294	-----YQAGPYVPKSFYI-----	-----IGQVGRKSGLGYVRN-----
wings_contig_264	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
wings_contig_247	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
thorax_contig_5238	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_738	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_678	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_236	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
legs_contig_1006	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
head_contig_2691	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
head_contig_1779	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
gut_contig_630	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
antennae_contig_5028	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
antennae_contig_304	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
abdomen_contig_7702	-----GVALCYQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
gut_contig_1216	-----YQAGQYVPKSFYI-----	-----IDQFGRKSDLVYVRN-----
head_contig_25197	-----LVFCYFVFEATAQISVQRQCRK-----	-----NSEAYRRV-----
snout_contig_3247	-----RTNSIFFSSVQRQCRK-----	-----NSEAYRRV-----
head_contig_10144	-----IIVQRQCRK-----	-----NSEAYRRV-----
abdomen_contig_1463	-----KSVQRQCRK-----	-----NSEAYRRV-----
head_contig_4692	-----EDIETKSVQRQCRK-----	-----NSEAYRRV-----
wings_contig_37004	-----MMTRKYS-----	
antennae_contig_20969	-----FPSTWI--QKITK--DAPPYDDD--	-----NSLTKEYEV-----
fat-body_contig_6280		-----ITVSCKSA-----
legs_contig_15521	-----MYYNKYNNLSLCNITDVYL--PGNKPNCPTPTYPATTPKFSLALSRT-----	
wings_contig_9480	-----G-----	
head_contig_21464	-----QVPPGGSWGASL-----	
legs_contig_59268	-----SYDFSG-----	
snout_contig_65174	-----NPDGSDYDFSG-----	
head_contig_7167		-----RV-----
legs_contig_12571		-----RV-----
thorax_contig_6557_ORF		-----RV-----
wings_contig_13576	-----APESVCDDMKPK-----	
snout_contig_8907	-----QQY-----	
head_contig_92		-----MLTSS-----
head_contig_1114	-MA-----EGR-----	
head_contig_1035	GKAEGETKPEGDQDRGQSE-----	
fat-body_contig_22298	-----MPLSETGQKNRQKFRT-----	-----RR-----EMFA-----
gut_contig_24519	-----MI-----	-----CS-----
gut_contig_34426		-----ITFLDR-----
wings_contig_8642	-----SPEGVAFRMGKLLDECSRSDFRI-----	-----CMK-----KKAITFLDR-----
wings_contig_20348		-----MIYLEM-----
thorax_contig_11735_ORF		-----QTSVQLKS-----
snout_contig_10012		-----ETTVQLKS-----
wings_contig_35199		-----ETTVQLKS-----
legs_contig_56079		-----MLPVRRLL-----RRETTVQLKS-----
head_contig_20645		-----ETTVQLKS-----
head_contig_22785	-----LQDRFIHDDKN-----	-----DEDTYMLPVRRLL-----RRETTVQLKS-----
gut_contig_26424		-----QTSWQIKN-----

[illegible]

wings_contig_247	RRDIMEP	LLRI	RRA	GGYASASSH
thorax_contig_5238	RRDIMEP	LLRI	RRA	GGYASASSH
legs_contig_738	RRDIMEP	LLRI	RRA	GGYASASSH
legs_contig_678	RRDIMEP	LLRI	RRA	GGYASASSH
legs_contig_236	RRDIMEP	LLRI	RRA	GGYASASSH
legs_contig_1006	RRDIMEP	LLRI	RRA	GGYASASSH
head_contig_2691	RRDIMEP	LLRI	RRA	GGYASASSH
head_contig_1779	RRDIMEP	LLRI	RRA	GGYASASSH
gut_contig_630	RRDIMEP	LLRI	RRA	GGYASASSH
antennae_contig_5028	RRDIMEP	LLRI	RRA	GGYASASSH
antennae_contig_304	RRDIMEP	LLRI	RRA	GGYASASSH
abdomen_contig_7702	RRDIMEP	LLRI	RRA	GGYASASSH
gut_contig_1216	RRDIMEP	LLRI	RRA	GGYASASSH
head_contig_25197	PL	ARYP	QLIRLRVLP SRLI	RGP
snout_contig_3247	PL	ARYP	QLIRLRVLP SRLI	RGP
head_contig_10144	PL	ARYP	QLIRLRVLP SRLI	RGP
abdomen_contig_1463	PL	ARYP	QLIRLRVLP SRLI	RGP
head_contig_4692	PL	ARYP	QLIRLRVLP SRLI	RGP
wings_contig_37004		FQRILYQPTVLLDSVGQITV		PGV
antennae_contig_20969	DF	EDLDIYFKGNLTDN	KTINY	TKK
fat-body_contig_6280	IF	TGVQ		
abdomen_contig_17815		STVLLNIAITNKI		TKK
legs_contig_15521	LF	TAFSTFFKCFNQCFASTVLLNIAITNKI		TKK
wings_contig_9480		VIHVVKHMMATAAAA	TTAL	TPLAIGLVGL
head_contig_21464		PTSLIAA		AWFREALNI
legs_contig_59268		LTELLRSFFGGTDGG	GSDI	GAFAGSLVGA
snout_contig_65174		LTELLRSFFGGTDGG	GSDI	GAFAGSLVGA
abdomen_contig_3971		LPAPEQ		LNWQ
head_contig_8773		PAPEQ		LNWQ
abdomen_contig_9129		LACAFPAKQ		LNWQ
head_contig_9541		ESEEI		SEENEN
snout_contig_6309		EEI		SEENEN
legs_contig_20987				EENEN
legs_contig_6429		ESEDVS		NEETEDH
wings_contig_34073				E
head_contig_27719		MCIL		
wings_contig_21115	LM	FEKTEF-GENACLQAMCEVDSG		C
wings_contig_145		DTCIHCICLHESG		C
wings_contig_9037		ISDDCLGCI CHIESG		C
wings_contig_12979		ENEG-PSRKCLDCI CYASST		CN
wings_contig_24016		AEGQD-STRKCLDCMCYASTK		CD
abdomen_contig_9311		MRCLCHVATE		CD
antennae_contig_3005		MRCLCHVATE		CD
head_contig_7167	VFNQDENSILKLPN	LDRQCMRCLCHVATE		CD
legs_contig_12571	VFNQDENSILKLPN	LDRQCMRCLCHVATE		CD
thorax_contig_6557_ORF	VFNQDENSILKLPN	LDRQCMRCLCHVATE		CD
thorax_contig_4396		DDL P-VTQQCLGCI CEAISA		CN
wings_contig_254		DDL P-VTQQCLGCI CEAISA		CN
wings_contig_13576		HPVDPQTIR		FPYKIAL
snout_contig_8907		AI EDEE-DIYRQ		
snout_contig_51353		MAENTS-LIRVKVDCFLPPSVVPFPPLPSTVLR		NPVINEPESN
head_contig_92	LL	QHGDVN-VIAVD-WSFYAGADY	ISAVAK	VPYVGQTVAS
head_contig_1114		NGIIQGYK-VTYHSVGEWYDNDQ	QTKII	NQVRTT
head_contig_1035		TSQVTDLGDF-TLINEG	EEEI	DMVGEE
fat-body_contig_22298			RSLPP	AEVVS
gut_contig_24519		AALT	QAAAI	KEVD
head_contig_21158		ALT	QAAAI	KEV
head_contig_25408			AAI	KEV
head_contig_29881				EDA
fat-body_contig_5939			AAI	KEIEDA
gut_contig_19950			AAI	KEIEDA
thorax_contig_22215			SVLL	TENE
gut_contig_34426	LGRMEKITIMDGFT-LIKSK	SNET	NSNII	TEKD
wings_contig_8642	LGRMEKITIMDGFT-LIKSK	SNET	NSTII	TEND
wings_contig_20348	LLVL			
thorax_contig_11735_ORF		P	GIGT LSHKGIILDN	RNHQL
head_contig_13019			EELKEDN	RNHQL
antennae_contig_12759			EELKDN	RNHQL

legs_contig_16152	-----DN-----RNHQL
snout_contig_10012	--P-----GIGTLSQKGTIVDN--RSHQL
wings_contig_35199	--P-----GIGTLSQKGTIVDN--RSHQL
legs_contig_56079	--P-----GIGTLSQKGTIVDN--RSHQL
head_contig_20645	--P-----GIGTLSQKGTIVDN--RSHQL
head_contig_22785	--P-----GIGTLSQKGTIVDN--RSHQL
gut_contig_26424	--P-----GIATISHTGTILNN-----PNHYI
antennae_contig_36996	-----TISHTGTILNN-----PNHYI
snout_contig_1435	--P-----GIATISHTGTILNN-----PNHYI
thorax_contig_5468	--P-----GIATISHTGTILNN-----PNHYV
snout_contig_1436	--P-----GIATISHTGTILNN-----PNHYV
head_contig_18056	--P-----GIATISHTGTILNN-----PNHYV
antennae_contig_18354	--P-----GIATISHTGTILNN-----PNHYV
gut_contig_34289	--P-----GIATISHTGTILNN-----PNHYV
legs_contig_18143	--P-----GIATISHTGTILNN-----PNHYV
snout_contig_25043	--P-----GIATISHTGTILNN-----PNHYV
wings_contig_10243	--P-----GILTVSHKGTISNN-----ENHRL
legs_contig_25911	--P-----GILTVSHKGTISNN-----ENHRL
abdomen_contig_20364	--P-----GILTVSHKGTISNN-----ENHRL
legs_contig_11863	--P-----GILTVSHKGTISNN-----ENHRL
thorax_contig_12619_ORF	--P-----GILTVSHKGTISNN-----ENHRL
head_contig_3380	--P-----GILTVSHKGTILDN-----KNHQL
snout_contig_16031	--P-----GILTVSHKGTILDN-----KNHQL
gut_contig_12195	--P-----GILTVSHKGTILDN-----KNHQL
wings_contig_17859	--P-----GILTVSHKGTILDN-----KNHQL
snout_contig_8906	--P-----GILTVSHKGTILDN-----KNHQL
head_contig_11479	-----VSHKGTILDN-----KNHQL
legs_contig_12933	--P-----GILTVSHKGTILDN-----KNHQL
snout_contig_6533	--P-----GILTVSHKGTILDN-----KNHQL
head_contig_7710	-----TVSHKGTISNN-----ENHRL
head_contig_12473	--P-----GILTVSHKGTISNN-----ENHRL
head_contig_7109	--P-----GILTVSHKGTILDN-----KNHQL
fat-body_contig_18846	--P-----GILTVSHKGTILDN-----KNHQL
legs_contig_1172	--P-----GILTVSHKGTILDN-----KNHQL
abdomen_contig_18023	-----ATCQL-----GKFR
fat-body_contig_15296	-----DFE-TPS-HEGRSRVKRATCQL-----GKFR
head_contig_19818	-----ATCQL-----GKFR
legs_contig_14899	-----ATCQL-----GKFR
legs_contig_7206	-----ATCQL-----GKFR
snout_contig_25846	-----ATCQL-----GKFR
snout_contig_6410	-----ATCQL-----GKFR
fat-body_contig_11849	-----DFE-TPS-HEGRSRVKRATCQL-----GKFR
head_contig_18717	-----ATCQL-----GKFR
antennae_contig_25540	-----ATCQL-----GKFR
antennae_contig_54400	-----ATCQL-----GKFR
fat-body_contig_8241	-----ATCQL-----GKFR
legs_contig_14898	-----ATCQL-----GKFR
legs_contig_7207	-----ATCQL-----GKFR
wings_contig_17449	-----ATCQL-----GKFR
thorax_contig_3348	-----ATCDL-----LSFE
legs_contig_22292	-----PEEELTQ-VSEHSRFRKATCDL-----LSFE
antennae_contig_9625	-----ATCDL-----LSFE
head_contig_1816	-----DFQ-DDL-AEGPVRVKRATCDL-----LSFE
legs_contig_12290	-----ATCDL-----LSFE
snout_contig_94	-----DFQ-DDL-AEGPVRVKRATCDL-----LSFE
wings_contig_501	-----ATCDL-----LSFE
gut_contig_33663	-----ATCDL-----LSFE
legs_contig_8953	-----ATCDL-----LSFE
snout_contig_14149	-----ATCDL-----LSFE
snout_contig_4937	-----FEEELIQ-VSEHGRVKRATCDL-----LSFE
head_contig_7282	-----L-----LSFE
snout_contig_809	-----PEEELTQ-VSEHSRFRKATCDL-----LSFE
wings_contig_1880	-----ATCDL-----LSFE
wings_contig_3598	-----ATCDL-----LSFE
fat-body_contig_10700	-----ATCDL-----LSFE
abdomen_contig_11291	-----ATCDL-----LSFE
head_contig_7550	-----ATCDL-----LSFE
thorax_contig_10906	-----LEEELTQ-VSEHGRVKRATCDL-----LSFE
head_contig_5676	-----FEEELIQ-VSEHGRVKRATCDL-----LSFE
antennae_contig_42989	-----ATCDL-----LSFE

antennae_contig_49987	-----ATCDL-----LSFE-----
fat-body_contig_12309	-----FEEELIQ-VSEHGRFKRATCDL-----LSFE-----
head_contig_7170	-----ATCDL-----LSFE-----
legs_contig_5967	-----ATCDL-----LSFE-----
wings_contig_6351	-----ATCDL-----LSFE-----
fat-body_contig_9117	VGKKL-----
legs_contig_67134	-EKAVRRVRDRAKENLGVA- GYVGVAQQLGLLPGR-----
wings_contig_11242	LEKAVRRVRDRARENLPVVS- DYVGVAQAAGLIKGG-----
abdomen_contig_11013	AENGVRVRDRAQENLPVVA- GYVGVAQAAGLLPGK-----
fat-body_contig_4257	AENGVRVRDRAQENLPVVA- GYVGVAQAAGLLPGK-----
wings_contig_33172	AENGVRVRDRAQENLPVVA- GYVGVAQAAGLLPGK-----
wings_contig_26325	AENGVRVRDRAQENLPVVA- GYLGVAQAAGLLPGK-----
thorax_contig_19456	VEKAVRRVRDRAQENLPVQ- GYVGVAQAAGLLPGR-----
gut_contig_36950	VEKAVRRVRDRAQENLPVQ- GYVGVAQAAGLLPGR-----
wings_contig_3463	VEKAVRRVRDRAQENLPVQ- GYVGVAQAAGLLPGR-----
head_contig_10176	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
head_contig_8472	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
wings_contig_19057	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
wings_contig_20315	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
thorax_contig_12006	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
gut_contig_19714	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
abdomen_contig_18046	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
antennae_contig_44920	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP-----
head_contig_12656	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLV-----
legs_contig_33582	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGL-----
legs_contig_4480	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
snout_contig_13632	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLVP GK-----
snout_contig_15631	VEKSVRRVRDRAQENLPVVA- GYVGVAQAAGLV-----
thorax_contig_12294	VEKSVRRVRDRA-----
wings_contig_24175	VEKSVRRVR-----
legs_contig_15450	-----AGDWS- SDVCSSDPKI-----
legs_contig_9154	-----KI-----
antennae_contig_22825	-----SEAKV-----
wings_contig_11135	-----MLT- LAVYECNCKV-----
antennae_contig_8550	-----MLT- LAVYECNCKV-----
antennae_contig_4078	-----KV-----
head_contig_13466	-----KV-----
head_contig_4570	-----KV-----
legs_contig_3439	-----KV-----
legs_contig_3479	-----MLT- LAVYECNCKV-----
wings_contig_7149	-----KV-----
gut_contig_26997	-----KV-----
abdomen_contig_2669	-----KV-----
abdomen_contig_2430	-----KV-----
head_contig_10969	-----KV-----
gut_contig_9902	-----YVP-----NVAQGL-----
legs_contig_248	-----QYYGGDYVP-----NVAQGL-----
wings_contig_96	-----ASS-----HASASA-----
gut_contig_1266	-----HASASA-----
wings_contig_310	-----ASASASASSGSGG- GGQYYGG- AP-----QAFAG-----
head_contig_1777	-----ASASASASSGSGG- GGQYYGG-----
thorax_contig_875	-----ASASASASSGSGG- GGQYYGG- AP-----QAFAG-----
wings_contig_282	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
legs_contig_679	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
gut_contig_1217	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
abdomen_contig_7701	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
antennae_contig_4063	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
gut_contig_631	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
snout_contig_872	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
thorax_contig_5237	-----ASASASASSGSGG- GGQYYGGAGAP-----QAFAG-----
legs_contig_17294	-----ASASASASSGSGGNGQYYGGAGAP-----QAFAGA-----
wings_contig_264	-----ASASASASSGSGGNGQYYGGDYVP-----NVAQGL-----
wings_contig_247	-----ASASASASSGSGGNGQYYGGDYVP-----NVAQGL-----
thorax_contig_5238	-----ASASASASSGSGGNGQYYGGAGAP-----QAFAGA-----
legs_contig_738	-----ASASASASSGSGGNGQYYGGDYVP-----NV- AQ-----
legs_contig_678	-----ASASASASSGSGGNGQYYGGAPQA-----FA- GA-----
legs_contig_236	-----ASASASASSGSGGNGQYYGGAPQA-----FA- GA-----
legs_contig_1006	-----ASASASASSGSGGNGQYYGGDYVP-----NV- AQ-----
head_contig_2691	-----ASASASASSGSGGNGQYYGGAPQA-----FA- GA-----
head_contig_1779	-----ASASASASSGSGGNGQYYGGAPQA-----FA- GA-----

gut_contig_630	-----ASASASASSGSGGGNGQYYGGDYVP-----NV-AQ-----
antennae_contig_5028	-----ASASASASSGSGGGNGQYYGGAPQA-----FA-GA-----
antennae_contig_304	-----ASASASASSGSGGGNGQYYGGD-----
abdomen_contig_7702	-----ASASASASSGSGGGNGQYYGGAPQA-----FA-----
gut_contig_1216	-----ASASASASSGSGGGNGQYYGG-----
wings_contig_11007	-----KVFG-----
head_contig_25197	IMKTVAVF-----ALFLLIGLGTVDHETESKVFT-----
snout_contig_3247	IMKTVAVF-----AAFVLIGLGNVHETESKVFT-----
head_contig_10144	IMKTVAVF-----PAFVLIGMGNVHETESKVFT-----
abdomen_contig_1463	IMKTVAVF-----AAFVLIGLGNVHETESKVFT-----
wings_contig_1696	-----KVFT-----
fat-body_contig_1889	-----KVFT-----
head_contig_4692	IMKTVAVF-----AAFVLIGLGNVHETESKVFT-----
thorax_contig_703_ORF	-----KVFT-----
wings_contig_37004	LCP-----
antennae_contig_20969	IIPFSTEF-----SQNDLSVENNLTS-TTQIST-----
fat-body_contig_6280	-----
abdomen_contig_17815	IIKILITV-----Q-----LQK-YTTI-----
legs_contig_15521	IIKILITV-----Q-----LQK-YTTI-----
wings_contig_9480	I-----
head_contig_21464	IIRGIT-----GIIWGK-----R-----
wings_contig_67750	-----GAGILSGK-----IVTGILPALS-----GPPDGDSDMTSTKAPQL
legs_contig_59268	IIKGIAN---PPGAKGAGILSGK---IVTGILPALS---GPPDGDSDMTSTKAPQL
snout_contig_65174	IIKGIAN---PPGAKGAGILSGK---IVTGILPALS---GPPDGDSDMTSTKAPQL
legs_contig_31199	-----AKPLGPGATCKKDGS�-GTCKSNICVQEKNADE-----
abdomen_contig_3971	-----PPEQKSEAQLYEGGFHHRDGVG-VV-----GFVNPNGS-----
head_contig_8773	-----PPEQKSEAQLYEGGFHHRDGVG-VV-----GFVNPNGS-----
abdomen_contig_17826	-----QAQFGGGGFQHRDGGG-AA-----GFVNPDGS-----
abdomen_contig_9129	-----PTEQKSAQFGGGGFQHRDGGG-AA-----GFVNPDAS-----
head_contig_9541	-----HE-----
snout_contig_6309	-----HE-----
legs_contig_20987	-----HE-----
legs_contig_6429	-----EV-----
gut_contig_2593	-----SA-----
wings_contig_34073	-----IV-----
head_contig_27719	-----C-----AIFHS-----
wings_contig_21115	-----VPVGCSTDVHGRVGC-----GYFNLN-----
wings_contig_145	-----KAIGCHMDV-GSLSC-----GYYQIK-----
wings_contig_9037	-----RPVGCCHMDV-GSLSC-----GYYQIK-----
wings_contig_12979	-----EKVGCFFNGGPESYFC-----GPYQIS-----
wings_contig_24016	-----EKIGCHNAGPESYFC-----GPYQIT-----
abdomen_contig_9311	-----LTKGCDK-----GYC-----GPYKIS-----
antennae_contig_3005	-----LTKGCDK-----GYC-----GPYKIS-----
head_contig_7167	-----LTKGCDK-----GYC-----GPYKIS-----
legs_contig_12571	-----LTKGCDK-----GYC-----GPYKIS-----
thorax_contig_6557_ORF	-----LTKGCDK-----GYC-----GPYKIS-----
thorax_contig_4396	-----TSSSCSG-----DVC-----GPFRIT-----
wings_contig_254	-----TSSSCSG-----DVC-----GPFRIT-----
wings_contig_13576	--SKNEVA--PGEDIEITISGRSYLGVFL-----Q-FRNS-----
snout_contig_51353	-----W-GALVLVIESSPSGGPLKAGRIPVTI-----FPDKIP-----
head_contig_92	FIDGIIDS--FGYSLDLVILMGHSLGAHVAGYA-----GKN-----
head_contig_1114	-ISGLRKF--TNSYITVLAYTGSGDGVRSPSVF--C-----QTEED-----
head_contig_1035	-DIGA--PSEKMPVEKPTEEGLLLDK-----HEEG-----
fat-body_contig_22298	-PS-----KPPSIR-----
gut_contig_24519	-NEA--AKEPLGRRHH-SLSLSLSLSITY--C-----FSFRS-----
head_contig_21158	-DNEA--PKEPLGVTCN-GHNGGTTVACTV--H-----CMVDG-----
head_contig_25408	-DNEA--PKEPLGVTCN-GHNGGTTVACTV--H-----CMVDG-----
head_contig_29881	-PSSD--DSAPLRITCN-GHDGGTTIPCTV--H-----CMVDG-----
fat-body_contig_5939	-PSSD--DSAPLRITCN-GHDGGTTIPCTV--H-----CMVDG-----
gut_contig_19950	-PSSD--DSAPLRITCN-GHDGGTTIPCTV--H-----CMVDG-----
thorax_contig_22215	-----IDQNLARSLE-GEKTLNKL--ML--I-----DKA-----
gut_contig_34426	-----IDENLGRSLD-DKNAVLNKL--IL--V-----DKA-----
wings_contig_8642	-----IDENLGRSLD-DKNAVLNKL--IL--V-----DKA-----
wings_contig_20348	-----KKYM-GKHNVFPE-MV--L-----QLG-----
wings_contig_9143	-----QTLPK-----
legs_contig_41913	--MGFV--TKDFTRKGLTPDALGGNLGYV-----NKPSSGNLIGADSIRGYGT
thorax_contig_11735_ORF	SGMGFV--TKDFTRKGLTPDALGGNLGYV-----NKPSSGNLIGADSIRGYGT
head_contig_13019	SGMGFV--TKDFTRKGLTPDALGGNLRYV-----NKPSSGNLIGADSIRGYGT



snout_contig_18124	--MGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSIIRGYGT
wings_contig_3386	--MGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSIIRGYGT
antennae_contig_12759	SGMGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSIIRGYGT
head_contig_18386	--MGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSIIRGYGT
antennae_contig_19867	--MGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSKRGYGT
legs_contig_16152	SGMGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSKRGYGT
snout_contig_18125	--MGFV--TKDFTRKGLTPDALGNNLRYV-----	NKPSGSNLGIGADSKRGYGT
snout_contig_35068	--MGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTRSNLIGIGADSIIRGYGT
snout_contig_10012	NGMGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTGSNLGIGADSIKGYGT
wings_contig_35199	NGMGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTGSNLGIGADSIKGYGT
legs_contig_56079	NGMGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTGSNLGIGADSIIRGYGT
head_contig_20645	NGMGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTGSNLGIGADSIIRGYGT
head_contig_22785	NGMGFV--TKDFTRKGLAPDAFGGSLGYV-----	NKPTGSNLGIGADSIIRGYGT
gut_contig_26424	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
antennae_contig_36996	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
snout_contig_1435	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
thorax_contig_5468	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
snout_contig_1436	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
head_contig_18056	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
antennae_contig_18354	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
gut_contig_34289	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
legs_contig_18143	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
snout_contig_25043	SGTGYL--SKNLRGGGFAPETYGGNVGYI-----	HKPTGSNLGVGADHTRGSGT
wings_contig_10243	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
legs_contig_25911	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
abdomen_contig_20364	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
legs_contig_11863	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
thorax_contig_12619_ORF	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
head_contig_3380	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
snout_contig_16031	GGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
gut_contig_12195	DGMGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
antennae_contig_31250	--MGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
wings_contig_26271	--MGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
wings_contig_17859	DGMGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
thorax_contig_8376_ORF	--MGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
snout_contig_8906	DGMGYV--QKNLRGHGIEPEVFG-----	
head_contig_11479	DGMGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
legs_contig_12933	DGMGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
snout_contig_6533	DGMGYV--QKNLRGHGIEPEVFGGGLKYT-----	HKPSESNLKIGADHARGFGT
fat-body_contig_23056	--MGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSNLSNLKIGADHAPGLGT
wings_contig_7236	--MGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
snout_contig_39063	--MGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
head_contig_7710	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
head_contig_15936	--MGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
antennae_contig_31537	--MGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
head_contig_12473	EGMGYA--QKNLRGHGIEPEVFGGGLKYT-----	HIPSESNLKIGADHAPGFGT
gut_contig_11250	--MGYI--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
antennae_contig_13155	-----GGLKYT-----	HIPSNLSNLKIGADHARGLGT
head_contig_7109	GGMGYV--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
gut_contig_40919	--MGYV--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
antennae_contig_12922	--MGYV--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
antennae_contig_17487	-----GGLKYT-----	HIPSNLSNLKIGADHARGLGT
fat-body_contig_18846	GGMGYV--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
legs_contig_1172	GGMGYV--QKNLRGHGIEPEVLGGGLKYT-----	HIPSNLSNLKIGADHARGLGT
thorax_contig_23718	-----GGGLKYT-----	HIPSNLSNLKIGADHARGLGT
abdomen_contig_18023	-----	IFGVKYNDSLCAAHCL-----
fat-body_contig_15296	-----	IFGVKYNDSLCAAHCL-----
head_contig_19818	-----	IFGVKYNDSLCAAHCL-----
legs_contig_14899	-----	IFGVKYNDSLCAAHCL-----
legs_contig_7206	-----	IFGVKYNDSLCAAHCL-----
snout_contig_25846	-----	IFGVKYNDSLCAAHCL-----
snout_contig_6410	-----	IFGVKYNDSLCAAHCL-----
abdomen_contig_14676	-----	MKYNDSLCAAHCL-----
fat-body_contig_11849	-----	IFGMKYNDSLCAAHCL-----
head_contig_18717	-----	IFGMKYNDSLCAAHCL-----
antennae_contig_25540	-----	IFGMKYNDSLCAAHCL-----
antennae_contig_54400	-----	IFGMKYNDSLCAAHCL-----
fat-body_contig_8241	-----	IFGMKYNDSLCAAHCL-----
legs_contig_14898	-----	IFGMKYNDSLCAAHCL-----
legs_contig_7207	-----	IFGMKYNDSLCAAHCL-----

wings_contig_17449	-----IFGMKYNDSLCAAHCL-----
thorax_contig_3348	-----VKGFKLNSACAAHCL-----
legs_contig_22292	-----VKGFKLNSACAAHCL-----
antennae_contig_9625	-----VKGFKLNSACAAHCL-----
head_contig_1816	-----VKGFKLNSACAAHCL-----
legs_contig_12290	-----VKGFKLNSACAAHCL-----
snout_contig_94	-----VKGFKLNSACAAHCL-----
wings_contig_501	-----VKGFKLNSACAAHCL-----
gut_contig_33663	-----AFGIKLNSACAAHCL-----
legs_contig_8953	-----AFGIKLNSACAAHCL-----
snout_contig_14149	-----AFGIKLNSACAAHCL-----
snout_contig_4937	-----AFGIKLNSACAAHCL-----
head_contig_7282	-----AFGIKLNSACAAHCL-----
snout_contig_809	-----AFGIKLNSACAAHCL-----
wings_contig_1880	-----AFGIKLNSACAAHCL-----
wings_contig_3598	-----AFGIKLNSACAAHCL-----
fat-body_contig_10700	-----AFGIKLNSACATHCL-----
abdomen_contig_11291	-----AFGIKLNSACAAHCL-----
head_contig_7550	-----AFGIKLNSACAAHCL-----
thorax_contig_10906	-----AFGIKLNSACAAHCL-----
head_contig_5676	-----AFGIKLNSACAAHCL-----
antennae_contig_42989	-----AFGIKLNSACAAHCL-----
antennae_contig_49987	-----AFGIKLNSACAAHCL-----
fat-body_contig_12309	-----AFGIKLNSACAAHCL-----
head_contig_7170	-----AFGIKLNSACAAHCL-----
legs_contig_5967	-----AFGIKLNSACAAHCL-----
wings_contig_6351	-----AFGIKLNSACAAHCL-----
legs_contig_15450	---YSRCEFAKAIKKYGITS---NLGTWTCI-----ASHESNFNTQA-----
legs_contig_21173	-----HESNFNTQA-----
legs_contig_41848	-----QA-----
legs_contig_9154	---YSRCEFAKAIKKYGITS---NLGTWTCI-----ASHESNFNTQA-----
wings_contig_30037	-----NFNTQA-----
wings_contig_3613	-----MKNQGVND---DLGTWTCI-----ASHESNFNTQA-----
snout_contig_11181	-----ICTSNEEPRRND---DLGTWTCI-----ASHESNFNTQA-----
antennae_contig_22825	---YSPCEFAQAMKQGVND---DLGTWTCI-----ASHESNFNTQA-----
wings_contig_4225	-----MKNQGVND---DLGTWTCI-----ASHESNFNTQA-----
legs_contig_3478	-----NGIKSIADLGTWTCI-----AFHESRFDTNA-----
head_contig_2467	-----MKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
fat-body_contig_17909	-----TWTCI-----AFHESRFDTNA-----
antennae_contig_10005	-----YI-----TFHESRFDTNA-----
antennae_contig_5138	-----NA-----
wings_contig_9391	-----MKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
wings_contig_11135	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
snout_contig_4938	-----MKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
legs_contig_3477	-----NGIKSIADLGTWTCI-----AFHESRFDTNA-----
legs_contig_32468	-----TWTCI-----AFHESRFDTNA-----
antennae_contig_8550	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
antennae_contig_4078	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
head_contig_13466	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
head_contig_4570	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
legs_contig_3439	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
legs_contig_3479	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
wings_contig_7149	---YBKCEFAKTMKYNGIKSIADLGTWTCI-----AFHESRFDTNA-----
wings_contig_27298	-----LKAHGISSRAQIATWTCI-----ASHESGFNTKA-----
gut_contig_26997	---YBKCAFAKQLKAHGISSRAQIATWTCI-----ASHESGFNTKA-----
abdomen_contig_2669	---YBKCAFAKQLKAHGISSRAQIATWTCI-----ASHESGFNTKA-----
abdomen_contig_2430	---YBKCAFAKQLKAHGISSRAQIATWTCI-----ASHESGFNTKA-----
head_contig_10969	---YTKCEFAQEMKKHGVTAHADLGTWTCI-----ASHESAFNTKA-----
antennae_contig_32201	-----MKKHGVTSHADLGTWTCI-----ASHESAFNTKA-----
gut_contig_9902	---YTKCEFAQEMKKHGVTSHADLGTWTCI-----ASHESAFNTKA-----
wings_contig_20241	-----GQPSSFAGASSSSNSGV-----
antennae_contig_992	-----GASSSSNAGV-----
legs_contig_248	---SQIHGQVQDL-----LNNIASGVGAGAPQAFAGASSSSNAGV-----
thorax_contig_2506	-----GAGAPQAFAGASSSSNAGV-----
thorax_contig_711	-----GAPQAFAGASSSSNAGV-----
wings_contig_96	---SQIHGQVQDL-----LNNIASGVGAGAPQAFAGASSSSNAGV-----
wings_contig_522	-----VASGVGAPQAFAGASSSSNAGV-----
wings_contig_4999	-----PSSFAGASSSSNSGV-----



TAYEIS~~RS~~DWSSDVCSSDPASSNAGV-  
 SASSGSGGGN- GQYYGG- APQAFAGASSSSNAGV-  
 -GGN- GQYYGG- APQAFAGASSSSNAGV-  
 SASSGSGGGN- GQYYGG- APQAFAGASSSSNAGV-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSS-  
 - - - - - ASSSSNAGV-  
 - - - - - ASSSSNA-  
 SSSSNA-  
 S- - - - - QIHGVQ- DLLNNIASGVGAPQAFAGASSSSNAGV-  
 S- - - - - QIHGVQ- DLLNNIASGVGAPQAFAGASSS-  
 SSSSNAG-  
 GLSQ- - - - - IHGVQ- DLLNNIA-  
 SSSSNAG-  
 SSSSNAGVGGYG~~PAS~~GQSY- GGLGSGHDA-  
 GLSQIHGVQ- - - - - V-  
 SSSSNAGVGGYG~~PAS~~GQSY- GG~~PES~~-  
 SSSSNAGVG-  
 GLSQ- - - - - IHGVQ- DLLNNIAR~~PVL~~SSV-  
 SSSSNAGVGGYG~~PAS~~GQSY- GG-  
 -RCE~~FKV~~-LARQN- ~~FPAN~~EINDWTCI- - - - - AQHESSYNSKA-  
 -KCGPTKELLNNG- F- - - - -  
 -KCGLTKELLNNG- FERTYVGHV-  
 -KCGLTKELLNNG- FER-  
 - - - - - KCGLTKELLNNG- FERTYVGHVWCL- - - - - VESESAKNTSK-  
 - - - - - KCGLTKELLNNG- FERTYVGHVWCL- - - - - VESESAKNTSK-  
 - - - - - KCGLTKELLNNG- FERTYVGHVWCL- - - - - VESESAKNTSK-  
 - - - - - KCGLTKELLNNG- FERTYVGHVWCL- - - - - VESESAKNTSK-  
 - - - - - KCGLTKELLNNG- FERTYVGHVWCL- - - - - VESESAKNTSK-  
 - - - - - KKERIDPLL- - - - - QNRTTLPDETRN- - - - - PRQEDASSEEE-  
 - - - - - TVIL- - - - - LEKNV-  
 - - - - - VITYIK- - - - - LN-  
 - - - - - VITYIK- - - - - LNRNSIL-  
 - - - - - A- - - - - AQAFIIAKIALVI-  
 - - - - - FLNCLLA-  
 DSGSFITG~~FLK~~TVLGSGGNGTTEGGK- - - - - QSTFTL- - - - - IKLVF-  
 DSGSFITG-  
 DSGSFITG~~FLK~~TVLGSGGNGTTEGG-  
 -T- - - - - GKCK-  
 -G- - - - - GQVKYGHESG- FGQSYG- - - - - A- - - - - DVRV-  
 -G- - - - - GQVKYGHESG- FGQSYG- - - - - A- - - - - DVRV-  
 -G- - - - - GQVKYGHQSG- FGQSFG- - - - - A- - - - - DGRV-  
 -G- - - - - GQVKYGHQSG- FGQSFG- - - - - A- - - - - DGRV-  
 - - - - - EELEP- - - - - RSWSCAVGSV-  
 - - - - - EALEP- - - - - RSWSCAVGSV-  
 - - - - - EALEP- - - - - RSWSCAVGSV-  
 - - - - - MGTA-  
 - - - - - DSIEP- - - - - RSWSCAMGTA-  
 - - - - - CFLDY- - - - - NI-  
 - - - - - A-  
 - - - - - NSVAP- - - - - QG-  
 - - - - - S-  
 - - - - - G-  
 - - - - - G-  
 - - - - - G-  
 - - - - - G-  
 - - - - - G-  
 - - - - - LCR- TSYNKPSGNGQCRRRRRI-  
 - - - - - ILQFRNCH- HPGKVTGEDES- V- - - - - AWIRCAEDFACSS~~ECI~~-  
 - - - - - LPYYEDCG- QPGKKS~~GEST~~ET- - - - - AWKRCSDDYSCSTTCV-  
 - - - - - LPYYIDCG- EP~~GK~~QPGQSTEA- - - - - AWKACADNLSCASTCV-  
 - - - - - RAYWIDAG- QPGN- - - - - V- - - - - DHFEKCLNDMSCAERTV-  
 - - - - - HAYWIDAG- KPGN- - - - - V- - - - - DHFEKCLKDKHCSETAV-  
 - - - - - KLYWKDAK- EVTLPDDDKERA- - - - - GAYEDCSISYQCAQKIV-  
 - - - - - KLYWKDAK- EVTLPDDDKERA- - - - - GAYEDCSISYQCAQKIV-  
 - - - - - KLYWKDAK- EVTLPDDDKERA- - - - - GAYEDCSISYQCAQKIV-

legs_contig_12571	-----KLYWKDAK-EVTLPPDDDKERA--GAYEDCSISYQCAQKIV-----
thorax_contig_6557_ORF	-----KLYWKDAK-EVTLPPDDDKERA--GAYEDCSISYQCAQKIV-----
thorax_contig_4396	-----WAYWADSG-KPTINGESPDPAP--QAYAHACAGDTYCAALSV-----
wings_contig_254	-----WAYWADSG-KPTINGESPDPAP--QAYAHACAGDTYCAALSV-----
wings_contig_13576	-----ENQAIGSF-----QIS-----
snout_contig_8907	-----DSI-----
snout_contig_51353	-----APLAPGGFAIPLI-MAP-----TKLPAKAPI-----
head_contig_92	-----LDGNIG-VIIGL--DPAGPLYLEITPASRL-----
head_contig_511	-----MR-----KLRWVLVPV-----
thorax_contig_4262	-----MR-----KLRWVLVPV-----
wings_contig_95	-----MR-----KLRWVLVPV-----
legs_contig_618	-----MR-----KLRWVLVPV-----
thorax_contig_140	-----MR-----KLRWVLVPV-----
antennae_contig_2181	-----MR-----KLRWVLVPV-----
thorax_contig_139	-----MR-----KLRWVLVPV-----
head_contig_1114	-----VPSAPS-DIKAVL--SAPNKILVSWLPPKFS-----
head_contig_1035	-----V-----D-----VIYDKAPPEDAVKR-----
gut_contig_24519	-----F-----FWIGMR--SASADVTVTTPRRSSL-----
head_contig_21158	-----Y-----HY-GVC-----VDGV-----
head_contig_25408	-----Y-----HY-GVC-----VDGV-----
head_contig_29881	-----Y-----HY-GVC-----KNGI-----
fat-body_contig_5939	-----Y-----HY-GVC-----KNGI-----
gut_contig_19950	-----Y-----HY-GVC-----KNGI-----
thorax_contig_22215	-----S-----DIFGAR--S-----IEISIPKIASL-----
gut_contig_34426	-----T-----SILDSR--T-----MQIFIPKASKE-----
wings_contig_8642	-----T-----SILDSR--T-----MQIFIPKASKE-----
wings_contig_20348	-----Q-----HTTL-----

legs_contig_41913	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
thorax_contig_11735_ORF	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
head_contig_13019	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGD-----RPPPRHN-----
snout_contig_18124	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGD-----RPPPRHN-----
wings_contig_3386	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGD-----RPPPRHN-----
antennae_contig_12759	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
head_contig_18386	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
antennae_contig_19867	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
legs_contig_16152	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
snout_contig_18125	DLSASGRLNLLQL--PNGNFVSGHYGRH-----FGH-----RPPPRHN-----
snout_contig_35068	DLSASGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
snout_contig_10012	DLSANGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
wings_contig_35199	DLSANGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
legs_contig_56079	DLSANGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
head_contig_20645	DLSANGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
head_contig_22785	DLSANGRVNLFLQL--PNGNFGISGHYGRH-----FGH-----RLPTR-P-----
gut_contig_26424	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
antennae_contig_36996	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
snout_contig_1435	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
thorax_contig_5468	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
snout_contig_1436	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
head_contig_18056	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
antennae_contig_18354	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
gut_contig_34289	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
legs_contig_18143	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
snout_contig_25043	NVHASGTYNFLKT--KNGALGLTGEYGRN-----LGG-----P-GG-K-----
wings_contig_10243	NLKASG-----
legs_contig_25911	NL-----
abdomen_contig_20364	NLKASGTYNMYHS--KNA-----
legs_contig_11863	NLKASGTYNMYHS--KNADVGLTGQY-----
thorax_contig_12619_ORF	NLKASGTYNMYHS--KNADVGLTGQYSRV-----IDT-----P-YGNLK-----
head_contig_3380	NLKASGTY-----
snout_contig_16031	NLKAS-----
gut_contig_12195	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
antennae_contig_31250	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
wings_contig_26271	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
wings_contig_17859	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
thorax_contig_8376_ORF	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
head_contig_11479	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
legs_contig_12933	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----
snout_contig_6533	KLHADATYNIYHS--KNADVGLTGQYSRV-----IDT-----P-IGNLK-----

fat-body_contig_23056	NLKASGTYNMYHS - KNADLGLTGQYSRV	IDT	P-YGNLK
wings_contig_7236	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
snout_contig_39063	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
head_contig_7710	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
head_contig_15936	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
antennae_contig_31537	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
head_contig_12473	NLKASGTYNMYHS - KNADVGLTGQYSRV	IDT	P-YGNLK
gut_contig_11250	NLKASGTYNIYHS - KNADLGLTGQYSRV	IDT	P-IW
antennae_contig_13155	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
head_contig_7109	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
gut_contig_40919	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
antennae_contig_12922	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
antennae_contig_17487	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
fat-body_contig_18846	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
legs_contig_1172	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
thorax_contig_23718	NLKASGTYNIYHS - KNADLGLTGQYNRV	INT	P-YGNLK
abdomen_contig_18023	- VIGKKG -		
fat-body_contig_15296	- VIGKKGGYCNRRNTCICRK -		
head_contig_19818	- VIGKKGGYCNRRNTCICRK -		
legs_contig_14899	- VIGKKGGYCNRRNT -		
snout_contig_25846	- VIGKKGGYCNRRNT -		
snout_contig_6410	- VIGKKGGYCNRRNTCICRK -		
abdomen_contig_14676	- VIGKKGGYCNRRNTCICRK -		
fat-body_contig_11849	- VIGKKGGYCNRRNTCICRK -		
head_contig_18717	- VIGKKGGYCNRRNTCICRK -		
antennae_contig_25540	- VIGKKGGYCNRRNTCIC -		
antennae_contig_54400	- VIGKKGGYCNRRNTCICR -		
fat-body_contig_8241	- VIGKKGGYCNRRNT -		
legs_contig_14898	- VIGKKGGYCNRRNT -		
wings_contig_17449	- VIGKKGGYCNRRN -		
thorax_contig_3348	- TLGKKGGHCNSSKVCVCRNYLQI -	- YVLMFLFC -	- CYFSCLE -
legs_contig_22292	- TLGKKGGHCNSSKVCVCRN -		
antennae_contig_9625	- TLGKKG -		
head_contig_1816	- TLGKKGGHCNSSKVCVCRN -		
legs_contig_12290	- TLGKKGGHCNSSKVCV -		
snout_contig_94	- TLGKKGGHCNSSKVCVCRN -		
wings_contig_501	- TLGKKGGHCNSSKVCVCRN -		
gut_contig_33663	- KLGRRGGHCNSRKVCIC -		
legs_contig_8953	- KLGRRGGHCNSRKVC -		
snout_contig_14149	- KLGRRGGHCNSRKVCICRR -		
snout_contig_4937	- KLGRRGGHCNSRKVCICRR -		
head_contig_7282	- KLGRRGGHCNSRKVCICRK -		
snout_contig_809	- KLGRRGGHCNSRKVCICRK -		
wings_contig_1880	- KLGRRGGHCNSRKVCICRK -		
wings_contig_3598	- KLGRRGGHCNSRKVCICRK -		
fat-body_contig_10700	- QLGRRGGHCNEEKVCVCRR -		
abdomen_contig_11291	- KLGRRGGHCNDEKVCVC -		
head_contig_7550	- KLGRRGGHCNDEKVCVCRR -		
thorax_contig_10906	- QLGRRGGHCNDEKVCVCRK -		
head_contig_5676	- QLGRRGGHCNDEKVCVCRR -		
antennae_contig_42989	- QLGRRGGHCNDEKVCVCR -		
antennae_contig_49987	- QLGRRGGHCNDEKVCVC -		
fat-body_contig_12309	- QLGRRGGHCNDEKVCVCRR -		
head_contig_7170	- QLGRRGGHCNDEKVCVCRR -		
legs_contig_5967	- QLGRRGGHCNDEKVCV -		
wings_contig_6351	- QLGRRGGHCNDEKVC -		
legs_contig_15450	- INHQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
legs_contig_21173	- INHQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
legs_contig_41848	- INHQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
legs_contig_9154	- INHQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
wings_contig_30037	- INHQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
wings_contig_61704	- HQTGDYGIL - Q -	- ISHLYWCSNSNSPGKACGITCQS -	
wings_contig_4577	- GDYGIF - Q -	- ISHLFWCFSDTPGKECGITCQS -	
wings_contig_3613	- INYDTGDYGIL - Q -	- ISHLYWCSDSPTPGKECGITCQS -	
snout_contig_11181	- INYDTGDYGIL - Q -	- ISHLYWCSDSPTPGKECGITCQS -	
antennae_contig_22825	- INYDTGDYGIL - Q -	- ISHLYWCSDSPTPGKECGITCQS -	
head_contig_24921	- - - Q -	- ISHLYWCSDSPTPGKECGITCQS -	
head_contig_26317	- - - -	- - - -	- KECGITCQS -
legs_contig_10639	- - - -	- - - -	- ISHLYWCSDSPTPGKECGITCQS -
wings_contig_4225	- INYDTGDYGIL - Q -	- ISHLYWCSDSPTPGKECGITCQS -	

legs_contig_3478	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
head_contig_2467	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
fat-body_contig_17909	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
antennae_contig_10005	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
antennae_contig_5138	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
legs_contig_6570	-----PGKGCHITCQS
wings_contig_9391	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
wings_contig_11135	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
snout_contig_4938	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
legs_contig_3477	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
legs_contig_32468	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
antennae_contig_8550	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
antennae_contig_4078	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
head_contig_13466	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
head_contig_4570	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
legs_contig_3439	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
legs_contig_3479	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
wings_contig_7149	-----INHVTGDYGIL--Q---ISHYFWCSDSNVPGKGCHITCQS
wings_contig_27298	-----INKVTGDYGIL--Q---ISHLYWCSTNTKKKGKCNITCAS
gut_contig_26997	-----INKVTGDYGIL--Q---ISHLYWCSTNT
abdomen_contig_2669	-----INKVTGDYGIL--Q---ISHLYWCSTNTKKKGKCNITCAS
abdomen_contig_21772	-----DYGIL--Q---ISHLYWCSTNTKKKGKCNITCAS
abdomen_contig_2430	-----INKVTGDYGIL--Q---ISHLYWCSTNTKKKGKCNITCAS
head_contig_10969	-----VNSVSGDYGIL--Q---INHYYWCSTTSTPGKGCNITCAS
antennae_contig_32201	-----VNSVSGDYGIL--Q---INHYYWCSTTSTPGKGCNITCAS
gut_contig_9902	-----VNSVSGDYGIL--Q---INHYYWCSTTSTPGKGCNITCAS
wings_contig_20241	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
antennae_contig_992	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
legs_contig_248	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
thorax_contig_2506	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
thorax_contig_711	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
wings_contig_96	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
wings_contig_522	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
wings_contig_4999	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
legs_contig_760	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
legs_contig_1266	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
fat-body_contig_3460	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
gut_contig_1266	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
head_contig_914	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
wings_contig_310	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
head_contig_1777	-----GGYGPPASGQSYGGL-----
wings_contig_282	-----GGYGPPASGQSYGGLGSGHDAGYNGPI-----
legs_contig_679	-----GGYG-----
gut_contig_1217	-----GGYGPPASGQSY-----
abdomen_contig_7701	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-EAEGSGI----
snout_contig_872	-----GGYGPPASGQSYG-----
wings_contig_264	-----GGYGPPASGQSYGGLGSGHDAGYNGPILFSRFG-----
wings_contig_11007	-----TNRTNTGSTDYGIQIN-----NYWWCTPG-KYN-GCKVKCS
abdomen_contig_1463	-----VTDKADRSKSLGLFQIN-----SKEWCKFS-TAGGKCSMKCED
wings_contig_1696	-----VTDKADRSKSLGLFQIN-----SKEWCKFS-TAGGKCSMKCED
fat-body_contig_1889	-----VTEKADRSKSLGLFQIN-----SKEWCKFS-TAGGKCSMKCED
head_contig_4692	-----VTEKADRSKSLGLFQIN-----SKEWCKFS-TAGGKCSMKCED
thorax_contig_703_ORF	-----VTEKADRSKSLGLFQIN-----SKEWCKFS-TAGGKCSMKCED
antennae_contig_20969	-----SSEEDGN-----
wings_contig_9480	---AIIIAVRKFLD-----S---QK-----K---K
wings_contig_67750	---SAITGV-----FS-----S-----
abdomen_contig_3971	---PIYTNKNRYGE---STVNLGAGADYYRG---VG---GSG---FG---DK---R
head_contig_8773	---PIYTNKNRYGE---STVNLGAGADYYRG---VG---GSG---FG---DK---R
abdomen_contig_17826	---PIYSNKNRYGE---STVNLGAGADYHKG---GGG---FG---DK---G
abdomen_contig_9129	---PIYSNKNRYGE---STVNLGAGADYHKG---GGG---FG---DK---R
head_contig_9541	-----SF-KGFKSGNLFCEFHCR---QRHR-GGY-----CD---R
snout_contig_6309	-----SF-KGFKSGNLFCEFHCR---QRHR-GGY-----CD---R
legs_contig_20987	-----SF-KGFKSGNLFCEFHCR---HKHR-GGY-----CE---R
legs_contig_17110	-----SF-KGFKSGNLFCEFHCR---HKHR-GGY-----CE---R
legs_contig_6429	-----SF-KGFKSGNLFCEFHCR---HKHR-GGY-----CE---R
gut_contig_2593	-----KGFNLGSSSLCSLECRM---LKRN-GGQ-----CG---L
wings_contig_28652	-----FVCPMNQALCNTHCRQ---IGRK-GGN-----CG---G
wings_contig_34073	-----FGCPFDKYQCHSHCKD---LGRK-GGY-----CN---W
wings_contig_20868	-----NGCPFNAHECNQFCVS---RRNK-GGY-----CG---G
wings_contig_18351	-----FGCPTNRYECHSHCLS---IGRR-GGY-----CA---G

wings_contig_35590	-----FGCPTNRYQCHSHCLS--IGRR--GGY-----CA--G
wings_contig_55965	-----FGCPFNRYECNNHCRS--IKRQ--GGY-----CA--G
wings_contig_12722	-----FGCPLNRYQCDSHCKS--LGRK--GGY-----CA--G
wings_contig_9173	-----FGCPLNRYQCDSHCKS--LGRK--GGY-----CA--G
wings_contig_10893	-----EERSRPLQLWL-FQ-----AT--Q
head_contig_27719	---GQYFIKY-----
wings_contig_21115	---RRIASRFRTKC--FGKSDCETMARL--HD--GGA--NG--CR--T
wings_contig_145	---QNYYNRYKGLCSSYFGTCEQMSRL--HN--GGP--SG--CK--Y
wings_contig_9037	---RNYMNRYYAARCHP--NPTCEVFSRV--HN--GGP--NG--CK--Y
wings_contig_12979	---DGYMRKWGQDCDRDNTLTCTYDFALM--HK--AGR--FG--CS--A
wings_contig_24016	---IQYMNKYGTDCDNDGKVTCTDDYARM--HK--AGR--FG--CS--A
abdomen_contig_9311	---LNYIAKYGRDCNGDGV-----
antennae_contig_3005	---LNYIAKYGRDCNGDGVTDCCDDYMI-----
head_contig_7167	---LNYIAKYGRDCNGDGVTDCCDDYMMI--NF--NGG--YQ--CH--P
legs_contig_12571	---LNYIAKYGRDCNGDGVTDCCDDYMMI--NF--NGG--YQ--CH--P
thorax_contig_6557_ORF	---LNYIAKYGRDCNGDGVTDCCDDYMMI--NF--NGG--YQ--CH--P
thorax_contig_4396	---QGYMNKFQDCDNGDKIDCD-----
wings_contig_254	---QGYMNKFQDCDNGDKIDCDFFASI--HK--IGG--YG--CK--G
wings_contig_13576	---PDDKYFKTVKCHENKLGAAATHKN--KEDKKDKVIVW-----
snout_contig_8907	---VEDEAGQQYYLV--PL--SRSKR-----
snout_contig_51353	---S-----DPP-----
head_contig_92	---NATDAKYVQAIHTNAMVLGVNYKLA-----
head_contig_511	---Q-----KRGFRFLRL--HR--IWRIGWVRCI--LH--R
thorax_contig_4262	---Q-----KHGFRFLRL--HR--IWRIGWVRCI--LH--R
wings_contig_95	---Q-----KHGFRFLRL--HR--IWRIGWVRCI--LH--R
legs_contig_618	---Q-----KHGFRFLRL--HR--IWRIGWVRCI--LH--R
thorax_contig_140	---Q-----KHGFRFLRL--HR--IWRIGWVRCI--LH--R
antennae_contig_2181	---Q-----KRGFRFLRL--HR--IWRIGWVRCI--LH--R
thorax_contig_139	---Q-----KRGFRFLRL--HR--IWRIGWVRCI--LH--R
head_contig_1114	---NGPLTGYTFYMS--VM--EDGQEEG--T--HK--R
head_contig_1035	---VLTEDDGKI--IKGHKPS--K--VFE-----
fat-body_contig_22298	---RG--SVTTLRN--TR--AS-----
gut_contig_24519	---CQ-----VRLKAYRYVDIYTA--TS--AYR-----
head_contig_21158	---CH-----CKN-----
head_contig_25408	---CH-----CKN-----
head_contig_29881	---CH-----CKN-----
fat-body_contig_5939	---CH-----CKN-----
gut_contig_19950	---CH-----CK-----
thorax_contig_22215	---VKTEGRS--EHHHKNDTYTYTYVE--RR--RRR-----
gut_contig_34426	---VS--EGRS--DEHHEH-----
wings_contig_8642	---VS--EGRS--DEHH-----
wings_contig_20348	---VKAT-----KAGGSEIVTFKIH--HR--IVD-----
wings_contig_9143	---VC-----HRSTVRYKTF-----
legs_contig_41913	-----NEWGV--FA-GTD-FWF-----
thorax_contig_11735_ORF	-----NEWGV--FA-GTD-FWF-----
head_contig_13019	-----NEWGV--FA-GTD-FWF-----
snout_contig_18124	-----NE-----
wings_contig_3386	-----NEWGV--FA-GTD-FWF-----
antennae_contig_12759	-----NEWGV--FA-GTD-FWF-----
head_contig_18386	-----NEWGV--FA-GTD-FWF-----
antennae_contig_19867	-----NEWGV--FA-GTD-FWF-----
legs_contig_16152	-----NEWGV--FA-GTD-FWF-----
snout_contig_18125	-----NE-----
snout_contig_35068	-----SDWGV--YA-GTD-FWF-----
snout_contig_10012	-----SDWGV--YA-GTD-FWF-----
wings_contig_35199	-----SDWGV--YA-GTD-FWF-----
legs_contig_56079	-----SDWGV--YA-G-----
head_contig_20645	-----SDWGV--YA-GTD-FWF-----
head_contig_22785	-----SDWGV--YA-GTD-FWF-----
antennae_contig_36996	-----PNW-----
snout_contig_1435	-----PNWGV--FL-G-----
thorax_contig_5468	-----PNWGV--FL-G-----
snout_contig_1436	-----PNWGV--FL-GG-----
head_contig_18056	-----PNWGV--FL-GGK-WNF-----
antennae_contig_18354	-----PNWGV--FL-----
gut_contig_34289	-----PNWGV--FL-G-----
legs_contig_18143	-----PNWGV--FL-GGK-WNF-----
snout_contig_25043	-----PNWGV--FL-GGK-WNF-----



thorax_contig_12619_ORF			PNWGV	-FL-GGQ-YRF
gut_contig_12195			PNWGR	-KL-NKL
antennae_contig_31250			PNWGV	-FL-EG
wings_contig_26271			PNWG	
wings_contig_17859			PNWGV	-FL-G
thorax_contig_8376_ORF			PNWGV	-FL-GGQ-YRF
head_contig_11479			PNWGV	-FL-G
legs_contig_12933			PNWGV	-FL-GGQ-YRF
snout_contig_6533			PNWGV	-FL-GGQ-YRF
fat-body_contig_23056			PNWGV	-YL-GGQ-Y
wings_contig_7236			PNWGV	-FL-GGQ-YRF
snout_contig_39063			PNWGV	-FL-GG-
head_contig_7710			PNWGV	-FL-GGQ-YRF
head_contig_15936			PNWGV	-FL-GGQ-Y
antennae_contig_31537			PNWG	
head_contig_12473			PNWGV	-YL-GGQ-YRF
antennae_contig_13155			PNWGV	-YL-GGH-
head_contig_7109			PNWG	
antennae_contig_12922			PNWGV	-YL-GGQ-YRF
antennae_contig_17487			PNWGV	-YL-GGQ-YRF
fat-body_contig_18846			PNWGV	-YL-GGQ-YRF
legs_contig_1172			PNWGV	-YL-GGQ-YRF
thorax_contig_23718			PNWGV	-YL-GGQ-YRF
thorax_contig_3348		IKLY		
legs_contig_15450	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
legs_contig_21173	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
legs_contig_41848	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
legs_contig_9154	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
wings_contig_30037	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
wings_contig_61704	LLGDDI	SRDVACAKKVVGETQRIS	GNGFTA	WTTYN-SCKGDQSWWIRNCNV
wings_contig_4577	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
wings_contig_3613	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGD-
snout_contig_11181	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
antennae_contig_22825	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
head_contig_24921	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
head_contig_26317	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
legs_contig_10639	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
wings_contig_4225	LLGDDI	TEDIICAKKVFSSETVAIS	GNGFTA	WTTYS-SCGGDQSSWIKECNL
legs_contig_14718		S	DIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL
legs_contig_3478	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
head_contig_2467	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
fat-body_contig_17909	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
antennae_contig_10005	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
antennae_contig_5138	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
legs_contig_6570	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
snout_contig_17238		V	CAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL
wings_contig_9391	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT		
wings_contig_11135	LLNDDI	TSDIVCAKKIFNETKNGPKK		
snout_contig_4938	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGD	
legs_contig_3477	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRS	
legs_contig_32468	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSK	
antennae_contig_8550	LLNDDI	TSDIVCAKKIF		
antennae_contig_4078	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYC	
head_contig_13466	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
head_contig_4570	LLNDDI	TSDIVCAKKIFNETKNGPK		
legs_contig_3439	LLNDDI	TSDIV		
legs_contig_3479	LLNDDI	TSDIVCAKKIFNETKNGPKKNGFAAWT	TYSKYCTGDQRSWVSGCGL	
wings_contig_7149	LLNDDI	TSDIVCAKKIFNETKNGPKKNG		
wings_contig_27298	LLTD			
abdomen_contig_2669	LLTDNI	SEDIKCAKHIIYSETAKLSKKS	GFTAWVTYKKYCTGNQSKWISGCRL	
abdomen_contig_21772	LLTDNI	SEDIKCAKHIIYSETAKLSKKS	GFTAWVTYKKYCTGNQ	
abdomen_contig_2430	LLTDNI	SEDIKCAKHIIYSETAKLSKKS	GFTAWVTYKKYCTGNQSKWISECRL	
head_contig_10969	LLTDDI	TVDIKCALHIFSETAKGSTKNGFTAWVTYKKYCTGDQSSWISGCSL		
antennae_contig_32201	LLTDDI	TVDIKCALHIFSETAKGSTKNGFTAWVTYKKYCTGDQSSWISGCSL		
gut_contig_9902	LLTDDI	TVDIKCALHIFSETAKGSTKNGFTAWVTYKKYCTGDQSSWISGCSL		
wings_contig_20241			HVAG	QA
antennae_contig_992			HVSG	QA
legs_contig_248			HVSG	QA
thorax_contig_2506			HVSG	QA
thorax contiq_711			HVSG	QA

wings_contig_96	-----HVSG-----QA--
wings_contig_522	-----HVSG-----QA--
wings_contig_4999	-----HVSG-----QA--
legs_contig_760	-----HVSG-----QA--
legs_contig_1266	-----HVSG-----QA--
fat-body_contig_3460	-----HVSG-----QA--
gut_contig_1266	-----HVSG-----QA--
head_contig_914	-----HVSG-----QA--
wings_contig_310	-----HVSG-----QA--
abdomen_contig_7701	-----HVSG-----QA--
abdomen_contig_1463	LLDEDI-----RDDSVCAKKIQ-----RALGFRAWD-----G--WFRSCYRR
wings_contig_1696	LLDEDI-----RDDSVCAKKIQ-----RALGFRAWD-----G--WFRSCYRR
fat-body_contig_1889	LLDEDI-----RDDSVCAKKIQ-----RALGFRAWD-----G--WFRSCYRR
head_contig_4692	LLDEDI-----RDDSVCAKKIQ-----RALGFRAWD-----G--WFRSCYRR
thorax_contig_703_ORF	LLDEDI-----RDDSVCAKKIQ-----RALGFRAWD-----G--WFRSCYRR
wings_contig_9480	PEHPTTP-HTEW-----HSS-----GWETAEPSP
wings_contig_67750	-ASSLSS-KSDW-----
abdomen_contig_3971	VGLNFN-----YRF-----
head_contig_8773	VGLNFN-----YRF-----
abdomen_contig_17826	VGLNFN-----HRF-----
abdomen_contig_9129	VGLNFN-----H-----
head_contig_9541	-----G-----SCRCs-----
snout_contig_6309	-----G-----SCRCs-----
legs_contig_20987	-----G-----TCRCG-----
legs_contig_17110	-----G-----TCRCG-----
legs_contig_6429	-----G-----TCRCG-----
gut_contig_2593	-----N-----NMCIcNN-----
wings_contig_28652	-----FLR-----
wings_contig_34073	-----L-----VCTCITK-----
wings_contig_20868	-----S-----LRSSCLCFKK-----
wings_contig_18351	-----GIWIIIRTtCTcYN-----
wings_contig_35590	-----GIWIIIRTtCTcYN-----
wings_contig_55965	-----S-----LRTTCTCFKN-----
wings_contig_12722	-----S-----LRTTCTCITR-----
wings_contig_9173	-----T-----LRTTCTCITR-----
wings_contig_10893	AL-----NPCCFLT-----ILAQ-----
head_contig_27719	-----RST-----RI
wings_contig_21115	--SKT--AYYWRKVNALCGED-----CKKP-----IFRRH-----
wings_contig_145	--SST--LGYWEAIHKCCGCS-----
wings_contig_9037	--PGT--IGYWNKVAGCCSGK-----HC-----
wings_contig_12979	AWVPNT--EYFKKFQACMEPQ-----AVLD-----ARKKQqNAS
wings_contig_24016	EWVDNS--DYWKSFKECMQGG-----VGK-----
head_contig_7167	PLNRSDAGRSWLARYKACNPkL-----RMSG-----DWS-----
legs_contig_12571	PLNRSDAGRSWLARYKACNPkL-----R-----
thorax_contig_6557_ORF	PLNRSDAGRSWLARYKACNPkL-----R-----
wings_contig_254	VPLPE--PYGERYRQCKAIV-----G-----
wings_contig_13576	-KAPDTAGKYTL-Y-ATV-----AENG-----GVFWVAKPSGT
snout_contig_8907	-SVP-----EKK-----NTQP-----QTDWKVESPGI
head_contig_511	VLIR-VHRSSVL-RPVRI-----HLLR-----RWSWKRHQRRP
thorax_contig_4262	VLIR-VHRSSAL-RPVRI-----HLLR-----RWSWKRHQRRP
wings_contig_95	VLIR-VHRSSVL-RPVRI-----HLLR-----RWSWKRHQRRP
legs_contig_618	VLIR-VHRSSVL-RPVRI-----HLLR-----RWSWKRHQRRP
thorax_contig_140	VLIR-VHRSSVL-RPVRI-----HLLR-----RWSWKRHQRR-
antennae_contig_2181	VLIR-VHRSSVL-RPVRI-----HLLR-----RWSWKRHRSEE
thorax_contig_139	VLIR-VHRSSAL-RPVRI-----H-----
head_contig_1114	ALSPFTDMHEVI-RAHDT-----STLQ-----FWVTASTRI
head_contig_1035	-HSPDT-----VCC-----LSLK-----TW-----
fat-body_contig_22298	--QEL-----SS-----H-----SCR-----RF
thorax_contig_22215	-RRPEH-----SHH-----THHN-----KWK-----KI
gut_contig_34426	-----W-----
wings_contig_20241	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
antennae_contig_992	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
legs_contig_248	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
thorax_contig_2506	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
thorax_contig_711	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
wings_contig_96	-----AGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
wings_contig_522	-----QGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----
wings_contig_4999	-----QGPNAAFSS-----SSSSVDSdGKIkySVQSGKY-----

legs_contig_760	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
legs_contig_1266	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
fat-body_contig_3460	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
gut_contig_1266	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
head_contig_914	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
wings_contig_310	-----QGPNAAFSS-----SSSSVDSGKIKYSVQSGKY-----
abdomen_contig_7701	-----AGLPPPPPP-----
abdomen_contig_1463	-----NLSIPPC-----
wings_contig_1696	-----NLSIPPC-----
fat-body_contig_1889	-----NLSIPPC-----
head_contig_4692	-----NLSIPPC-----
thorax_contig_703_ORF	-----NLSIPPC-----
wings_contig_9480	-----DRR-IS-EAH-----RLA--YKGYRHLHH-----
wings_contig_10893	-----A-----MDLAMLNLNRSEHLTL-----
head_contig_27719	IAR-----
wings_contig_12979	PIRGPTKTKPQARFIHNPIHRPPAPQGGDDPVRISS-----IIQPKKK
wings_contig_13576	--IN--VA-----
snout_contig_8907	--LT--VSHKGTILDNNKH-----QLDGMGY-IQKNLRGHGI-----
head_contig_511	--GE--H-----
thorax_contig_4262	--GE--HRHN--ID-HYH-----H-----
wings_contig_95	--GE--HPRH--TR-C-----
legs_contig_618	--GE--HRHN--I-----
antennae_contig_2181	--HT--SELQ--SP-AMI-----S-----
head_contig_1114	--GE--GESTKI-IT-VT-----
fat-body_contig_22298	--GS--GRAR--SS-AVV-----SLHPE-LHVLQLI-----
thorax_contig_22215	--GE--AILTAI-TA-ALS-----ALVPVAIALIALIAGAALILSKV-----

**Supplementary File S2.** Multiple sequence alignments using coloring methods (Clustal Omega) of the peptide sequences from all parts of the body of male and female *R. ferrugineus* adult, both reared in laboratory and collected in field.