

Supplementary table 1. Number of insulin receptors in some insect species

Order	Species	Common name	No. of InRs	GenBank accession No.
Hemiptera	<i>Nilaparvata lugens</i>	Brown planthopper hopper	2	AIY24638; AIY24639
	<i>Acyrtosiphon pisum</i>	Pea aphid	2	XP_008185917; XP_001942660
	<i>Cimex lectularius</i>	Bed bug	2	XP_014256336; XP_014242610
Anoplura	<i>Pediculus humanus corporis</i>	Human body louse	1	XP_002430961
Coleoptera	<i>Tribolium castaneum</i>	Red flour beetle	2	EFA11583; EFA02828
	<i>Dendroctonus ponderosae</i>	Mountain pine beetle	1	ENN74143
	<i>Leptinotarsa decemlineata</i>	Colorado potato beetle	1	AKQ48960
Diptera	<i>Drosophila melanogaster</i>	Fruit fly	1	CAY93032
	<i>Culex quinquefasciatus</i>	Southern house mosquito	1	XP_001847438
	<i>Aedes aegypti</i>	Yellow fever mosquito	1	Q93105
	<i>Anopheles gambiae</i>	African malaria mosquito	1	XP_320130
	<i>Anopheles darlingi</i>	South American malaria mosquito	2	ETN63231; ETN61928
	<i>Anopheles sinensis</i>	Malaria mosquito	2	KFB49958; KFB49143
	<i>Bactrocera cucurbitae</i>	Melon fruit fly	2	XP_011197118; XP_011188402
	<i>Bactrocera dorsalis</i>	Oriental fruit fly	1	XP_011210333
	<i>Ceratitis capitata</i>	Mediterranean fruitfly	1	XP_004518075
Lepidoptera	<i>Bombyx mori</i>	Domesticated silkworm	1	NP_001037011
	<i>Danaus plexippus</i>	Monarch butterfly	2	EHJ65074; EHJ69301
	<i>Papilio machaon</i>	Swallowtail butterfly	1	KPJ08671
	<i>Papilio xuthus</i>	Citrus-feeding swallowtail butterfly	1	KPI95007
	<i>Plutella xylostella</i>	diamondback moth	1	XP_011567916

Blattodea	<i>Zootermopsis nevadensis</i>	Dampwood termite	3	KDR21367; KDR21366; KDR13786
	<i>Blattella germanica</i>	German cockroach	1	HG518668
Hymenoptera	<i>Apis mellifera</i>	Honeybee	2	NP_001233596; XP_394771
	<i>Acromyrmex echinator</i>	Leaf-cutting ant	2	EGI67492; EGI60406
	<i>Athalia rosae</i>	Sawfly	2	XP_012260906; XP_012259845
	<i>Atta cephalotes</i>	Leafcutter ant	2	XP_012056411; XP_012056634
	<i>Bombus impatiens</i>	Common eastern bumble bee	2	XP_003490625; XP_003484422
	<i>Bombus terrestris</i>	Buff-tailed bumble bee	2	XP_003393794; XP_003397946
	<i>Camponotus floridanus</i>	Florida carpenter ant	2	EFN71461; EFN73169
	<i>Cerapachys biroi</i>	Clonal raider ant	2	EZA48949; EZA49388
	<i>Ceratosolen solmsi marchali</i>	Fig wasp	1	XP_011494410
	<i>Fopius arisanus</i>	Tephritid fruit fly parasitoid wasp	2	XP_011300657; XP_011310956
	<i>Harpegnathos saltator</i>	Jerdon's jumping ant	2	EFN89247; EFN83767
	<i>Linepithema humile</i>	Argentine ant	2	XP_012228695; XP_012223767
	<i>Megachile rotundata</i>	Alfalfa leafcutting bee	2	XP_003701556; XP_003700128
	<i>Microplitis demolitor</i>	Braconid wasp	2	XP_014295647; XP_008551856
	<i>Nasonia vitripennis</i>	Jewel wasp	1	XP_003425750
	<i>Pogonomyrmex barbatus</i>	Red harvester ant	2	XP_011648401; XP_011632353
	<i>Solenopsis invicta</i>	Fire ant	2	ADZ56367; ADZ56366
	<i>Vollenhovia emeryi</i>	Myrmicina Japanese ant	2	XP_011864732; XP_011882700
<i>Wasmannia auropunctata</i>	Tramp ant	2	XP_011696536; XP_011690939	