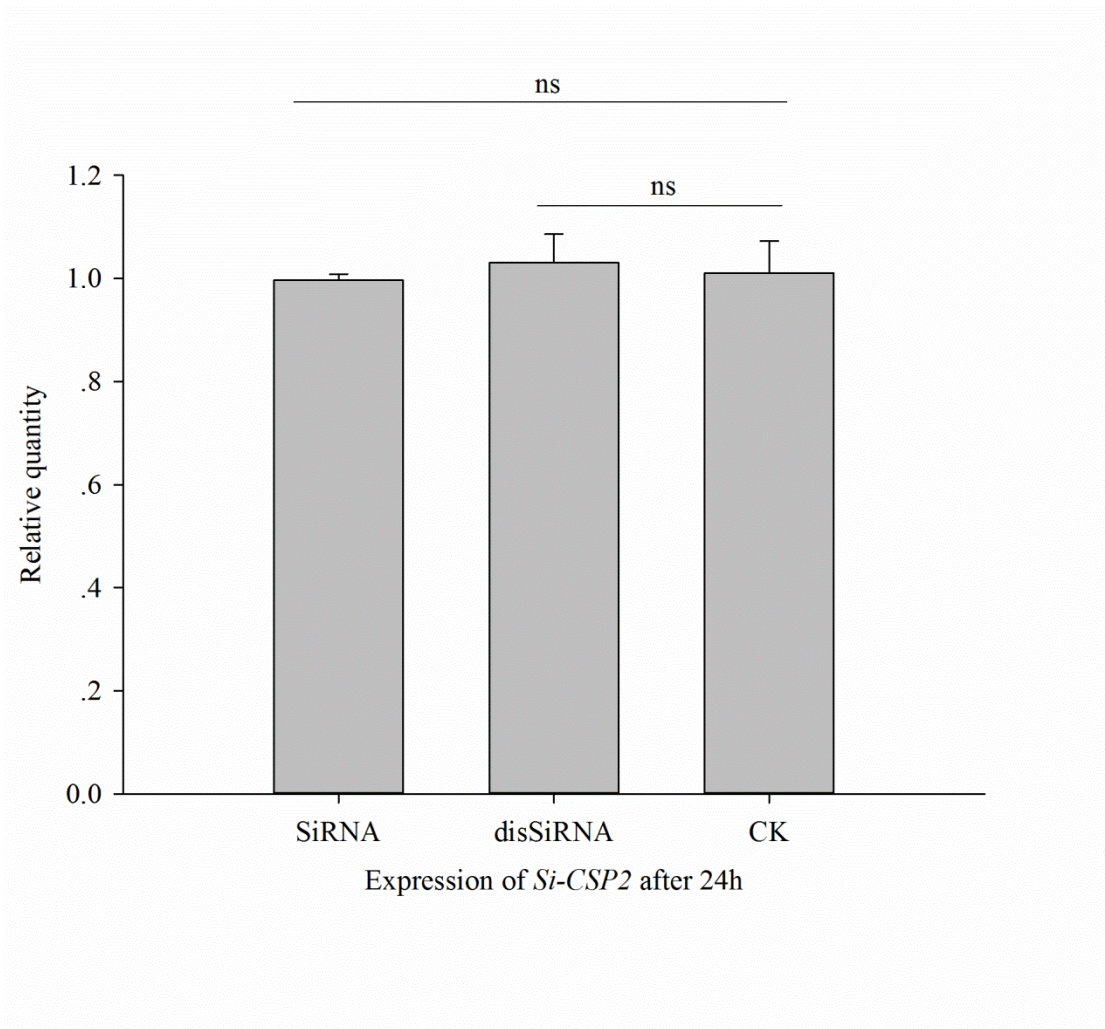
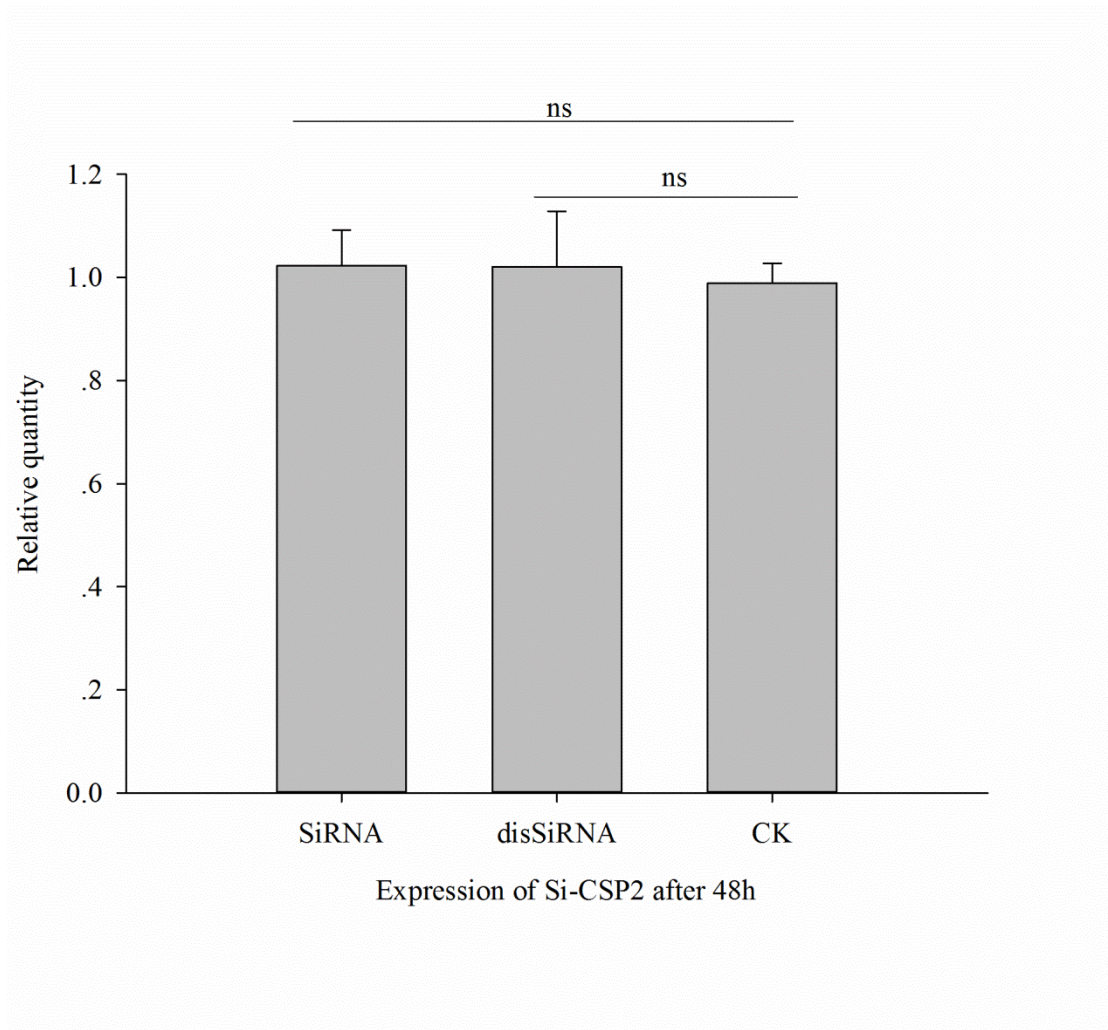
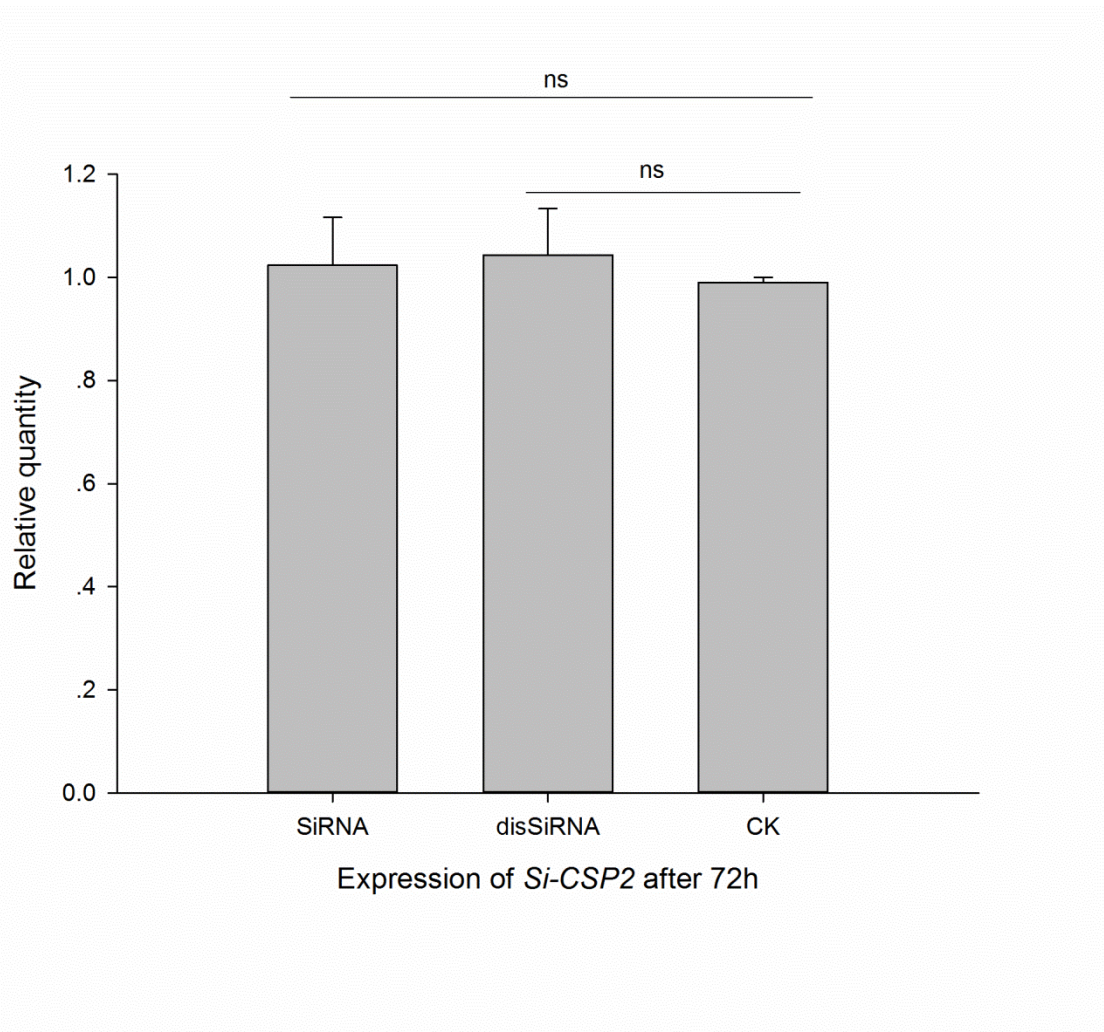


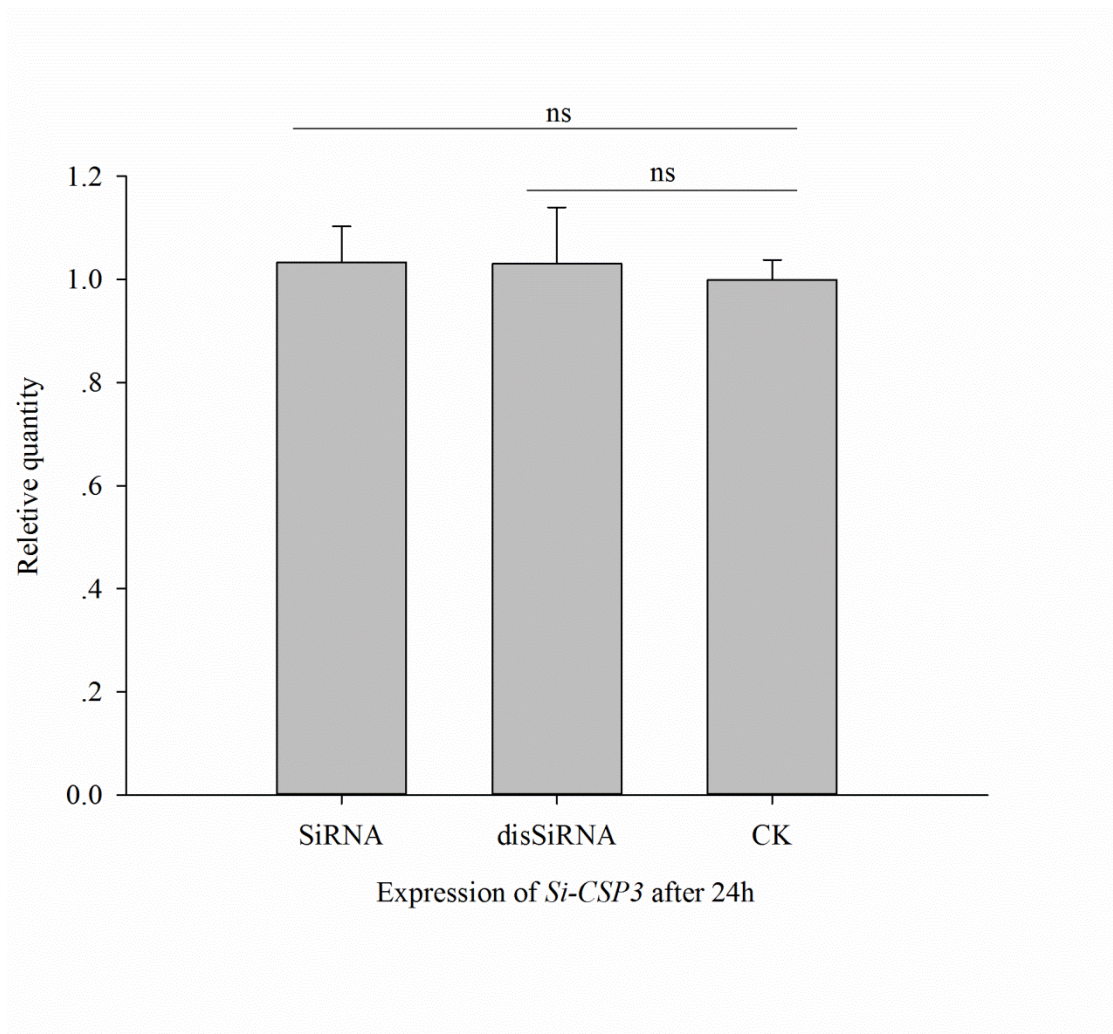
1 Functions of Si-CSP: Si-CSP9 regulates the integument and molting process of larvae in the red
2 imported fire ant, *Solenopsis invicta*
3 Daifeng Cheng Yongyue Lu Ling Zeng Xiaofang He* Guangwen Liang*

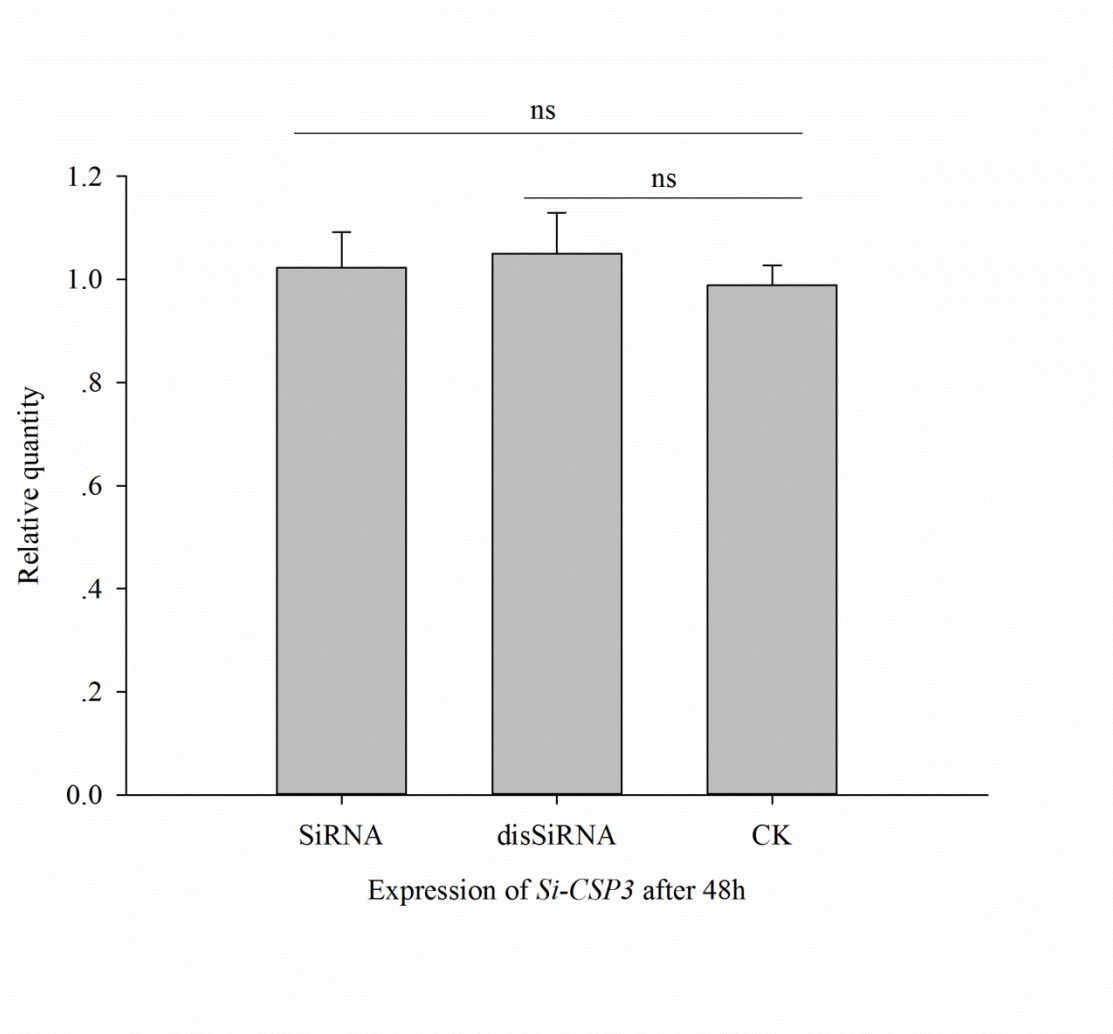


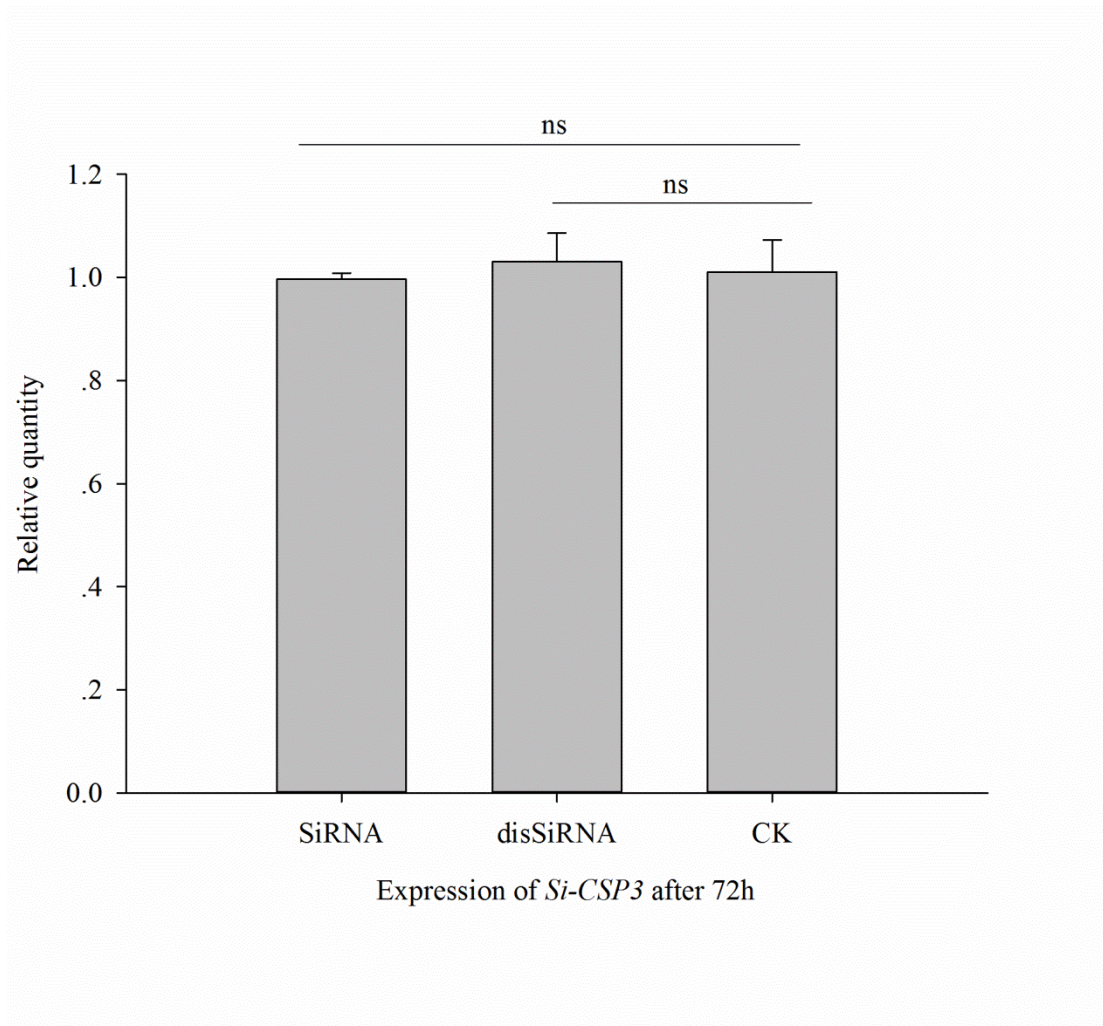
4











9

10 Supplementary Figure S1 Expression of *Si-CSP2* and *Si-CSP3* after *Si-CSP9* being
 11 silenced.

12

13

SupplementaryTable S1 Genes used in phylogenetic tree reconstruction

	<i>Order</i>	<i>Species</i>	<i>Name</i>	<i>Accession number</i>
<i>PKA</i>	<i>Diptera</i>	<i>Muscadomestica</i>	<i>MdomXP_005178559</i>	<i>XP_005178559</i>
	<i>Diptera</i>	<i>Ceratitiscapitata</i>	<i>CcapXP_004535521</i>	<i>XP_004535521</i>
	<i>Diptera</i>	<i>Drosophila melanogaster</i>	<i>DmelAAM50541</i>	<i>AAM50541</i>
	<i>Hymenoptera</i>	<i>Harpegnathossaltator</i>	<i>HsalEFN86858</i>	<i>EFN86858</i>
	<i>Hymenoptera</i>	<i>Nasoniavitripennis</i>	<i>NvitXP_001603535</i>	<i>XP_001603535</i>
	<i>Hymenoptera</i>	<i>Acromyrmex_echinator</i>	<i>AechEGI70994</i>	<i>EGI70994</i>
	<i>Hymenoptera</i>	<i>Camponotus_floridanus</i>	<i>CfloEFN64599</i>	<i>EFN64599</i>
	<i>Hymenoptera</i>	<i>Apismellifera</i>	<i>AmelXP_393711</i>	<i>XP_393711</i>
	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	<i>PKA</i>	<i>EFZ22638</i>
	<i>Lepidoptera</i>	<i>Bombyxmori</i>	<i>BmorXP_004929251</i>	<i>XP_004929251</i>
	<i>Lepidoptera</i>	<i>Mamestrabrassicae</i>	<i>MbraAFP95722</i>	<i>AFP95722</i>

FAT	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	FAT1	EFZ12838
	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	FAT2	EFZ11472
	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	FAT3	EFZ16301
	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	FAT4	EFZ11482
	<i>Hymenoptera</i>	<i>Acromyrmexechinator</i>	AechiEGI66297	EGI66297
	<i>Hymenoptera</i>	<i>Camponotusfloridanus</i>	CfloEFN75053	EFN75053
	<i>Hymenoptera</i>	<i>Harpegnathossaltator</i>	HsalEFN81866	EFN81866
	<i>Hymenoptera</i>	<i>Apis mellifera</i>	AmelXP_395426	XP_395426
	<i>Hymenoptera</i>	<i>Apis florea</i>	AfloXP_003690209	XP_003690209
	<i>Hymenoptera</i>	<i>Bombus terrestris</i>	BterNP_001267840	NP_001267840
	<i>Homoptera</i>	<i>Acyrtosiphon pisum</i>	ApisXP_001949072	XP_001949072
	<i>Diptera</i>	<i>Musca domestica</i>	MdomXP_005189399	XP_005189399
	<i>Diptera</i>	<i>Ceratitiscapitata</i>	CcapXP_004524714	XP_004524714
	<i>Diptera</i>	<i>Aedes aegypti</i>	AaegXP_001654967	XP_001654967
	<i>Coleoptera</i>	<i>Tribolium castaneum</i>	TcasXP_970384	XP_970384
FAAH	<i>Hymenoptera</i>	<i>Solenopsisinvicta</i>	FAAH	EFZ09899
	<i>Hymenoptera</i>	<i>Acromyrmexechinator</i>	AechEGI60868	EGI60868
	<i>Hymenoptera</i>	<i>Harpegnathossaltator</i>	HsalEFN75981	EFN75981
	<i>Hymenoptera</i>	<i>Apis florea</i>	AfloXP_003698394	XP_003698394
	<i>Lepidoptera</i>	<i>Bombyx mori</i>	BmorXP_004923963	XP_004923963
	<i>Lepidoptera</i>	<i>Bombyx mori</i>	BmorXP_004924016	XP_004924016
	<i>Lepidoptera</i>	<i>Bombyx mori</i>	BmorXP_004931785	XP_004931785
	<i>Diptera</i>	<i>Musca domestica</i>	MdomXP_005185712	XP_005185712
	<i>Diptera</i>	<i>Ceratitiscapitata</i>	CcapXP_004536939	XP_004536939
	<i>Diptera</i>	<i>Ceratitiscapitata</i>	CcapXP_004523064	XP_004523064
	<i>Homoptera</i>	<i>Acyrtosiphon pisum</i>	ApisXP_001946922	XP_001946922
	<i>Coleoptera</i>	<i>Anoplophora glabripennis</i>	AglaJAB65838	JAB65838

