

Figure 1 - figure supplement 2. Summary of amino acid variation at sites implicated in cardenolide-sensitivity in ATPα1 in surveyed species

	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	6	7	7	7	7	7	8	8	8	8	8	8	9	9									
Position	0	0	1	1	1	1	1	1	1	2	2	2	0	1	1	1	1	2	2	2	3	3	3	6	5	7	8	8	8	9	9	0	0	6	7	8	8	9	7	8					
Reference sequence	C	Y	Q	A	T	V	E	E	P	A	D	D	N	Y	D	V	I	F	G	V	A	N	L	A	T	C	A	P	F	F	I	L	T	C	D	F	L	R	K	E	R	L			
Species																																										specialists	outgroups		
Orthoptera																																										6	9		
Gryllus firmus	D	.	S		
Tetrix japonica		
Romalea microptera	.	.	L	S		
Oedaleus asiaticus	.	.	L	S		
Locusta migratoria	.	.	L	S		
Aularches miliaris	.	.	L	S		
Taphronota calliparea	.	.	L	S	M		
Dictyophorus griseus	.	.	L	S		
Chrotogonus hemipterus	.	.	L	S		
Atractomorpha acutipennis	.	.	L	S		
Sphenarium purpurascens	.	.	L	S	M		
Ochrophlebia cafra	.	.	L	S		
Zonocerus elegans	.	.	L	S		
Poecilocerius pictus B	.	.	L	S		
Phymateus leprosus B	.	.	L	S		
Poecilocerius pictus A	.	.	L	.	.	T	.	.	S	S	.	.	H	.	.	V	M		
Phymateus leprosus A	.	.	L	.	.	T	.	.	S	T	E	N	H	.	.	V	M	M		
Mantodea																																										0	1		
Mantis religiosa		
Hemiptera																																										4	16		
Bemisia tabaci	.	.	E	S	.	I	E	V	.	V	.	.	.	M			
Nilaparvata lugens	M		
Rhodnius prolixus	S	M		
Lygus hesperus	T		
Cimex lectularius	S	M		
Boisea trivittata	S	T		
Leptocoris trivittatus	S	T		
Pyrrhocoris apterus	S	-	-	-	-	-	-	-	-		
Dysdercus cingulatus	S	M		
Dysdercus fasciatus	S	M		
Macrocheraia grandis	.	.	E	T	S	M		
Largus californicus	.	.	E	T	S	M		
Largus sp.	.	.	E	T	S	-	-	-	-	-	-	-	-		
Jalysus sp	S	K		
Metatropis rufescens	S	M		
Ischnodemus falcis	M		
Gyndes sp	S	M		
Geocoris sp	S	R		
Oncopeltus fasciatus D	S	.	.	H	V		
Oncopeltus fasciatus C	S	.	.	H	M	.	S	.	.	.	M			
Lygaeus kalmii C	S	.	.	H	M	.	S	.	.	.	M			
Oncopeltus fasciatus B	.	.	T	S	.	E	.	.	S	S	.	H	.	.	V	N	V	M			
Lygaeus kalmii B	.	.	T	S	.	E	.	.	S	S	.	H	.	.	V	N	V	M			
Oncopeltus fasciatus A	.	.	T	S	A	S	.	N	H	.	.	V	N	V	.	A	.	.	E	.	.	Q		
Lygaeus kalmii A	.	.	T	S	A	S	.	N	H	.	.	V	N	V	.	A	.	.	M	.	.	.	Q	
Phthiraptera																																										0	1		
Pediculus humanus corporis	.	.	L	M	F		
Hymenoptera																																										2	20		
Neodiprion lecontei	D	.	N	T		
Athalia rosae	D	.	N		
Monophadnus latus	.	.	T	.	.	L	.	.	S	N	.	H	M	T		
Pachyprotasis variegata	D	.	N	-	-	-	-	-	-	-	-		
Cephus cinctus	S	.	D	N	T		
Diachasma alloeum	S	.	D	N	T		
Microplitis demolitor	S	.	D	N	R		
Ceratosolen solmsi	.	.	H	.	.	S	.	D	A	N	E	.	D	T			
Copidosoma floridanum	S	D	.	N	R		
Polistes canadensis	S	.	D	N
Polistes dominula	S	.	D	N
Harpegnathos saltator	S	.	D	N
Dinoponera quadriceps	S	.	D	N
Ooceraea biroi	S	.	D	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

