



	<i>Culex pipiens_gui</i>	<a href="#">Cqup\Atp6v0a2b</a>	<a href="#">CP0083234</a>	52	98	35	117	66	513										66	1587* (A base deletion at 1499)										320	172	59	97	238	intron2?	477																																																																																																																																																																																																																																																																																																																																																		
Diptera (Cecidomyiidae)	<i>Mayetiola_destructor</i>	<a href="#">Mdes\Atp6v0a2</a>		ND	ND	ND	117	81	774											104	73	93	276	71	260	82	510										89	235	66	172	84	103																																																																																																																																																																																																																																																																																																																																												
Lepidoptera	<i>Bombyx_mori</i>	<a href="#">Bmor\Atp6v0a2</a>	<a href="#">77</a>	16009	27	117	4407	177	1000	161	1089	181	1151										177	1158	213	526	151	ND	374	1362	110	568	128	1143	221	697	235	379	172	526	100	95	intron1	13141																																																																																																																																																																																																																																																																																																																																										
	<i>Manduca sexta</i>	<a href="#">Msex\Atp6v0a2</a>				117	4168	177	1269	161	563	181	346										177	256	213	369	151	166	374	198	110	272	128		227	279	226	654	172	386	100		5'	>-600																																																																																																																																																																																																																																																																																																																																										
	<i>Danaus_plexippus</i>	<a href="#">Dple\Atp6v0a2</a>				117	2912	177	794	161	452	181	319										177	86	213	86	151?	156	374	71	110	117	128	382	224	161	220?	443	172	335	94																																																																																																																																																																																																																																																																																																																																													
	<i>Heliconius_melpomene</i>	<a href="#">Hmel\Atp6v0a2a</a>				117	2468	177	792	161	424	181	309										177	226	213	303	151	352	374	234	110	218	128	302	224	561	232	465	172	456	97		intron1	>1359																																																																																																																																																																																																																																																																																																																																										
	<i>Heliconius_melpomene</i>	<a href="#">Hmel\Atp6v0a2b</a>				108	4717	168	364	324												177	1455	213	548	151	854	377	407	110	425	128	362	218	245	172?	294	172	188	127																																																																																																																																																																																																																																																																																																																																														
Lepidoptera	<i>Plutella_rylostella</i>	<a href="#">Psy\Atp6v0a2a</a>				117	2397	177	4393	155	464	181	588										177	ND	213	858	151	416	374	316	110	686	128	ND	227	347	241	470	172	335	97																																																																																																																																																																																																																																																																																																																																													
	<i>Plutella_rylostella</i>	<a href="#">Psy\Atp6v0a2b</a>				ND	ND	177	735	155	338	181	459										177	1914	213	900	151	602	374	273	110	413	128	470	227	1057	241	446	172	574	97																																																																																																																																																																																																																																																																																																																																													
Strepsiptera	<i>Mengenilla_moldrzyki</i>	<a href="#">Mmol\Atp6v0a2</a>				117	ND	522										ND	177	2944	213	57	151	ND	371	ND	110	53	128	ND	224	ND	214	66	172	ND	85																																																																																																																																																																																																																																																																																																																																																	
	<i>Tribolium_castaneum</i>	<a href="#">Tcas\Atp6v0a2</a>	<a href="#">47</a>	1994	19	117	48	519										49	390 (177+213)		78	151	ND	484										42	131	49	441										56	172	48	100	67	5'	-39																																																																																																																																																																																																																																																																																																																																	
	<i>Dendroctonus_ponderosae</i>	<a href="#">Dpon\Atp6v0a2a</a>	<a href="#">58</a>	527	20	117	ND	177	51	190	51	128	53	217	56	173	53	151	1457	166	52	229	ND	110	65	137	55	239	52	199	58	281										60	5' intron1	-11 106																																																																																																																																																																																																																																																																																																																																										
<i>Dendroctonus_ponderosae</i>	<a href="#">Dpon\Atp6v0a2b</a>				117	65	177	997	165	190	216	203	174	53	151	54	208	88	190	60			110	64	134	62	236	2236	238	58	272										155																																																																																																																																																																																																																																																																																																																																													
Hymenoptera	<i>Apis_mellifera</i>	<a href="#">Amel\Atp6v0a2</a>	<a href="#">160</a>	>24746	24	117	845	180	1032	129	110	83	654	127	1462	177	206	213	289	214	245	424										343	128	89	233	277	389										568	97	1130	intron1	16102																																																																																																																																																																																																																																																																																																																																			
	<i>Apis_florea</i>	<a href="#">Afla\Atp6v0a2</a>				117	906	180	380	129	110	83	610	127	1454	177	277	213	387	214	297	424										301	128*	86	233	314	389										594	97		5'	>-1507																																																																																																																																																																																																																																																																																																																																			
	<i>Bombus_terrestris</i>	<a href="#">Bter\Atp6v0a2</a>	<a href="#">619</a>	10596	24	117	1319	180	1493	129	112	83	2814	127	2050	177	956	213	576	214	1114	421										1978	128	103	230	785	389										523	97	1581	intron1	9973																																																																																																																																																																																																																																																																																																																																			
	<i>Bombus_impatiens</i>	<a href="#">Bimp\Atp6v0a2</a>				117	1257	180	800	129	112	83	2530	127	1997	177	1756	213	554	214	1081	421										1986	128	110	230	545	389										542	97		5' intron1	>-1463 >331																																																																																																																																																																																																																																																																																																																																			
	<i>Megachile_rotundata</i>	<a href="#">Mrot\Atp6v0a2</a>				117	1756	180	1705	129	110	83	1331	127	2379	177	554	213	190	214	643	421										300	128	58	233	277	389										94	100																																																																																																																																																																																																																																																																																																																																						
	<i>Acromyrmex_echinator</i>	<a href="#">Aech\Atp6v0a2</a>				117	1138	180	487	129	119	83	712	127	233	177	240	213	478	214	101	427										365	128	94	233	360	398										359	97		5' 5' intron1	-5545 -4818 658																																																																																																																																																																																																																																																																																																																																			
	<i>Atta_cephalotes</i>	<a href="#">Acep\Atp6v0a2</a>				117	1147	180	494	129	119	83	ND	127	235	177	254	213	ND	214	94	427										347	128	87	233	353	398										352	97		5' 5' intron1	>-4813 >-1055 >537																																																																																																																																																																																																																																																																																																																																			
	<i>Solenopsis_invicta</i>	<a href="#">Sinv\Atp6v0a2</a>				117	733	180	689	129	113	83	1182	127	210	177	298	213	632	214	108	424										315	128	605	230	875	392										720	97																																																																																																																																																																																																																																																																																																																																						
	<i>Pogonomyrmex_barbatus</i>	<a href="#">Pbar\Atp6v0a2</a>				117	430	180	364	129	116	83	696	127	240	177	245	213	454	214	90	427										352	128	74	233	151	398										383	97																																																																																																																																																																																																																																																																																																																																						
	<i>Camponotus_floridanus</i>	<a href="#">Cflo\Atp6v0a2</a>				117	349	180	659	129	113	83	ND	ND	ND	177	238	213	279	214	96	430										363	128	76	233	462	395										380	97																																																																																																																																																																																																																																																																																																																																						
	<i>Linepithema_humile</i>	<a href="#">Lhum\Atp6v0a2</a>				117	257	180	179	129	113	83	692	127	306	177	120	213	385	214	89	430										260	128	70	233	127	401										267	97		5'	>-1921																																																																																																																																																																																																																																																																																																																																			
	<i>Harpegnathos_saltator</i>	<a href="#">Hsal\Atp6v0a2</a>				117	423	180	204	129	113	86	443	127	264	177	228	213	96	214	150	421										381	128	86	239	330	416										415	97																																																																																																																																																																																																																																																																																																																																						
	<i>Nasonia_vitripennis</i>	<a href="#">Nvit\Atp6v0a2a</a>	<a href="#">352</a>	13600	60	117	76	309												?	86	116	127	73	177	74	213	87	214	111	433												92	128	83	227	88	395	97	106	902																																																																																																																																																																																																																																																																																																																																			
	<i>Nasonia_vitripennis</i>	<a href="#">Nvit\Atp6v0a2b</a>	<a href="#">96</a>	747	21	117	72	309												131	74	68	127	60	177	85	213	72	214	73	433												70	128	68	224	78	401	76	103	89	5'	-6																																																																																																																																																																																																																																																																																																																																	
	<i>Nasonia_giraulti</i>	<a href="#">Ngir\Atp6v0a2a</a>				117	74	309												110	86	116	127	73	177	74	213	87	214	111	433												92	128	81	227	96	395	96	106																																																																																																																																																																																																																																																																																																																																				
	<i>Nasonia_giraulti</i>	<a href="#">Ngir\Atp6v0a2b</a>				117	72	309												134	74	71	127	60	177	85	213	72	214	62	433			70	128	67	224	73	401	76	103		5'	>-870																																																																																																																																																																																																																																																																																																																																										
<i>Nasonia_longicornis</i>	<a href="#">Nlon\Atp6v0a2a</a>				117	74	309												110	86	116	127	73	177	74	213	87	214	145	433			93	128	81	227	90	395	97	106																																																																																																																																																																																																																																																																																																																																														
<i>Nasonia_longicornis</i>	<a href="#">Nlon\Atp6v0a2b</a>				117	72	309												131	74	71	127	60	177	85	213	72	214	62	433			70	128	67	224	73	401	76	103		5'	>-868																																																																																																																																																																																																																																																																																																																																											
Order	Species	Atp6v0a orthologs	5' exon	intron	5'exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron	exon	intron

[illegible]