

	10	20	30	40	50	60	70	80	90
<i>Acyrtosiphon_pisum</i>	-----	a t g g c g g t t t t t g a c c c c g a a a c g	-----	c t c t c a c t t g t g a c g g t c	-----	-----	g g t t g g c a a c t g c a t a g	t a t a t a a g a a a c g t t c a g a c	
<i>Aedes_aegyptii</i>	-----	-----	a a c g t g t c g c t g	-----	c t a c g c a t c g c t a g a	-----	a c c a g a a a a c t g c a c a c t c g c	t a t a t a a t c c c c t g c c g t g a	
<i>Agrilus_planipennis</i>	-----	g t t g a a a a a a t c t a c c a a a	-----	a c c t g g t c t c t a c c g	-----	-----	c t a t t a a t t t c t g t c g a g g a a g	t a t a t a t a c g t c c c g t g a a	
<i>Anopheles_arabiensis</i>	-----	-----	t c t g c g	-----	t t a g a c a t c g c t a g a	-----	a g c g g g a t t t t t g t g c g c c g	t a t a t a a c c g g a c g g g t t g g	
<i>Anopheles_gambiae</i>	-----	-----	t c t g c g	-----	t t a g a c a t c g c t a g a	-----	a g c g g g a t t t t t g t g c g c c g	t a t a t a a g c g g a c g g g t t g g	
<i>Anoplophora_glabripennis</i>	---	g t g a a a a t g t c t t t a a - t t t g c g g t	-----	t t a t a t c t c a c c g -	-----	-----	a c a c t c a a t c t g t a c g g t a a g	t a c a t a t a c c a g c a a a a t a	
<i>Apis_mellifera</i>	---	a t t t a t g g t t g a g t a c c a c t g a t a c c	-----	t t t c t c g c a a g t g g t c	-----	-----	g t t t c a g c c t t c g t t g c	t t a t a a g a g a a t t c c a t a c	
<i>Atta_cephalates</i>	---	a t a t a t a t t t t t c t a t t t t c c a a g	-----	t t t t c t c g a g a g t g c t	-----	-----	t g t c g a a c c a t g t t t c a c	t a t a t a t a c t c t t t t t g a a	
<i>Bombyx_mori</i>	-	a t a a a g t a a t t a t t t a c t a a a t a g a a g c	-	t g a a c t g c a c t a t t g a t t t	-----	-----	- t t t t c t a a a t c t t a g	t a t a t a a a a g a t g t a g t c t t	
<i>Ceratitis_capitata</i>	-----	-----	a a a t g c g	-----	c a c c a a t t c g t a g a	-----	t g c t t t t c a a a t g c t a a t a c a c a	t a t a t a c c g t t c a t t a g c a t	
<i>Culex_quinquefasciatus</i>	-----	-----	t g g t c g t t	-----	t t g c c c a t c c a t c g c t a g a	-----	a c c a a a g c a t c a g c t c g c t c g c	t a t a t a t a c c c c c t t a c g c c	
<i>Diphorina_citri</i>	-----	a t c t t c c c g t g a t g t t t t g g	-----	t a a c t t c t c g g t t t	-----	-----	c c c a t t t t t g t c a a t t g a g g a g t t	t a a a t a c t a c t t t t t c g g a c	
<i>Drosophila_grimshawi</i>	-----	g c t c t t t a g g t t a t t t a a t t g c	-----	t t a a a a t t c c c a a c a c	-----	-----	g t t a t t c g g c g a g c g g c g c g	t a t a a a t a g c g g c g a c c g a c	
<i>Drosophila_melanogaster</i>	-----	c t a t t c a t a t c g c g t t c g g c t g g	-----	t t a t g a t t c c c a a c t c	-----	-----	g t t t t t c g c t g a t g g c g c g	t a t a a a t a g c g c t g a t a g c a	
<i>Drosophila_pseudoobscura</i>	-----	t t t t c g t a g a t t t c t a a t c t g c	-----	t t t a a a t t c c c a a g t c	-----	-----	t t t t c c g c t c g g t t c t c a g t t	t a t a t a c c g c t c t t t t c g t a	
<i>Drosophila_virilis</i>	-----	a c g t g t g t a t t t t t t c a c g c	-----	t t a a a a t t c c c a a c t c	-----	-----	a t t t t t c g g c g t g c g t c a c a c a	t a a a t a g c g g c a a a c g a t a a	
<i>Ephemera_Danica</i>	-----	a a a a a t a t t c a a t a g c a a a g	-----	t t t g a a a c a t g c g t t	-----	-----	g g c a a g c c a a c g g c a g a g a a a a c t	t a t a t a c g a t t g g t g t a a t	
<i>Glossina_morsitans</i>	-----	-----	a g	-----	a a a a a t t t c t a g a t a	-----	c t t t t t a c g t a g a c c t a t g t a t t a a	t a t a c a a c a c t a t c g a c t g t	
<i>Ladona_fulva</i>	-----	t t t t c t t g a a t a a c g t g a t t	-----	a a c t c t c g c t a c t c c g c	-----	-----	a g a g c t t c a a c t t c g g c	t a t a a a t a c t g g c t a t t a t c	
<i>Leptinotarsa_decemlineata</i>	-----	a c a c t t a a t a c a c c a a c t c c a a c a	-----	c t t a c a t c t c g c g c a g	-----	-----	c a c a c t t a g g c t c t t t c a g	t a t a t a t a c g a c t t a c c a g c	
<i>Lutzomyia_longipalpis</i>	-----	-----	a a t a g g t t t t	-	t g t a c a a t g t t c g a t a t a	-----	-----	c t t c a g t g g a g a c a a c t t g a g	t a t t t g t g c a a c t c a a g t a g
<i>Mayetiola_destructor</i>	-----	-----	aa	-----	a t t g g a t t t c c a t t t	-----	g g a a a a t t c c a a a a a g t t g a a a a a t	c a t t t g a a c g g a t t c c g c g	
<i>Nasonia_vitripennis</i>	-----	g c g c c c g g a c g a a a t a c a c c g a a	-----	g c t c t c c c g c a a g c g	-----	-----	g c a a g a t t c t t g g c t g g t a a c	t a t a t a t a c t c g a g c g g c a	
<i>Onthophagus_taurus</i>	-----	-----	t a g a a a a t a a a t c g c t	-	t a a a a a g t c g a t t c t t t t t	-----	-----	a c g t t a t c t t g g a g a t c g a g c	t a a a a g g t c g a t g t a t a a a
<i>Pediculus_humanus</i>	a	t t a a g g g a t g a a t a a a a a t c g a a a t c g	-----	t t t c g c g g t g a a t g	-----	-----	t g a t t c g c g t c g t t c g a a t a	t a t a t a a c g c t t g a a t t t t	
<i>Rhodnius_prolixus</i>	-----	-----	t a g t t a c c t a a a a a a	-----	t t a t t g c c t c t t c c g t	-----	g t a a t c a a a c t t a c c t c t a c t a a g t c	t a t a t a a a g g t a g t a g t c g t	
<i>Tribolium_castaneum</i>	----	c c g t a a a t a g t g t t a a t t a a a t t c g	-----	t t a c a t c t a c t a c	-----	-----	c g g t t a t c g t c c g c t c g t a c g c t	t a t a t a c g a g t a t t c g a a g	

Consensus



	110	120	130	140	150	160	170	180	190
<i>Acyrtosiphon_pisum</i>	acgtacccttc	-----	ACCTCACCTCCGAT-ACCTTACCA	---	TCGGGTCTAC-ACCTTTGGC	---	G---	CGGTAACCGAGCGGTTA	
<i>Aedes_aegyptii</i>	ccctcgtccatccgggtagcgt	-----	GGTCTTTTCTA--GCTCAATT	---	TCGTGGTTAC-ATTC-GAGT	---	TTC-TGATAACTC	---	TCAT
<i>Agrilus_planipennis</i>	caccgtcgtgtaa	-----	GGTCTTTCGGA--GCTAGCCTT	---	ACGGGGTTAT--TTCAGAGT	---	TC--TAATGACTC	-----	
<i>Anopheles_arabiensis</i>	ccctctcgccctgtggagaagatgcttt	-----	GTGGTCTTCTCTA--GCTCAACTC	---	TCGTGGTTCC-ATAC-GAGC	---	TG--TCATAGCTC-ACTCGTT	-----	
<i>Anopheles_gambiae</i>	ccctttggcccggtggagaagatgcttt	-----	GTGGTCTTCTCTA--GCTCAACTC	---	TCGTGGTTCC-ATAC-GAGC	---	TG--TCATAGCTC-ACCGTT	-----	
<i>Anoplophora_glabripennis</i>	ccgtagaaatgt	-----	AGATCCTCCCAA--GTTGACTC	---	GCAAAGCCAC-ACGAGAGT	---	TC--TCGTAACTC	-----	
<i>Apis_mellifera</i>	catagctcttc	-----	GAGGAGTTCCTCTCGTCAACACC	---	GCGGAGCCAC-AATCGGAGT	---	CCGTTAGTGACTC	-----	
<i>Atta_cephalates</i>	agattcctttaac	-----	GAAGTTCCTTCGGGAACACC	---	GCGGAGCCAC-TATCGGAGC	---	CTGCAATGACTC	-----	
<i>Bombyx_mori</i>	atatttga	-----	GGGGTTCCAACCA--GTTCAACTT	---	TCGGGGTCAC-ATGC-GAGT	---	TC--TTGTAACTC	-----	
<i>Ceratitis_capitata</i>	agttaaatctgaggtcgacgctagtt	-----	GTTCGAATCTTCCAT--GCTTGTTTC	---	TCGGGGTCAC-AAAC-GAGT	---	TCC-TGGTAACTC	-----	
<i>Culex_quinquefasciatus</i>	gcagcgactctccgggtaaac	-----	GTGGTCTTTTCTA-GCTCAATT	---	TCGTGGTAC-ATAC-GAGT	---	TCTTCTTTGTAAGTACTC	-----	
<i>Diphorina_citri</i>	cgggtcaggcaa	-----	GGGGTTCAAAGAGTTCAGCT	---	TCGTAGCTAC-ATACGGGGT	---	GCT-TGGTCAACC	-----	
<i>Drosophila_grimshawi</i>	tcgtttggtag	-----	GCTGTTTTGAGTTTTCTTGCTTGCTCTCGGGGTCAC-AAAC-GAGC	---	TCC-TGGTAGCTC	---		-----	
<i>Drosophila_melanogaster</i>	gcaaatgtgat	-----	GCCGGTTTGAGTCTTCCATGCTTGCTCTCGGGGCCACAAAAC-GAGT	---	TCC-TGGTAACTC	---		-----	
<i>Drosophila_pseudoobscura</i>	gttctatga	-----	GCCGGTTTGAGTTTTCTTGCTTGCTCTCGGGGTCAC-AAAC-GAGT	---	TCC-TGGTAACTC	---		-----	
<i>Drosophila_virilis</i>	cctgttttagccc	-----	GCTTTGAGTTTTCTTGCTTGCTCTCGGGGTCAC-AAAC-GAGC	---	TCC-TAGTAGCTC	---		-----	
<i>Ephemera_Danica</i>	gaagtgtgc	-----	GGCGGAGG	-----	TGG-GTGCAGCGC	-----		-----	
<i>Glossina_morsitans</i>	tcaagcgagagtacgtatagttg	-----	GTTTCGAGTCTTCTATGCTTGCTT	---	TCGGGGTTAC-ATAC-GAGT	---	TCT-TAGTAACTC	-----	
<i>Ladona_fulva</i>	attctcatcacgt	-----	GTTCTCCTCAA--TACCCACTG	---	GCGGGATGAC-TAACTGAGT	---	AC--TTGTTACTC	-----	
<i>Leptinotarsa_decemlineata</i>	tgaactctct	-----	AGAAACCTCTCAAGTCCGACTG	---	TCGGGGTCTC-ATACAGAGT	---	TC--TCGTAACTC	-----	
<i>Lutzomyia_longipalpis</i>	gtgctgtaatcttgcctct	-----	GTGACGACTCATTCAAGCTCGTTCA	---	ACGGGGTGAC-TCAC-GAGT	---	TCATTGTAACTC	-----	
<i>Mayetiola_destructor</i>	aaagtttttgcgatgagaagattttc	-----	ACGAATATTACAA--GCCAACTC	---	ACGGGATCAC-AAAC-GAGT	---	TCC-TAGTAACTC	---	AAAATC
<i>Nasonia_vitripennis</i>	cacgtgtatcc	-----	GGAGGTTCCTCGA--GTGCCACC	---	GCGGAGCTACAATCGGGAGT	---	CC--CAGTGACTC	-----	
<i>Onthophagus_taurus</i>	gagttgcctaa	-----	GTCTTCTCTTGAACTGGCAT	---	TCGGGATTAC-ATACAGGGT	---	CT--TTATGGCTC	-----	
<i>Pediculus_humanus</i>	tgtaac	-----	GTTGGGATTCTGATATGCTTACTG	---	CTGAGTTAC-GTACGGTGT	---	ACG-CGGTTACAC	-----	
<i>Rhodnius_prolixus</i>	acacactgact	-----	GTGTGTTGTGTTGAGTCTGACTGA	---	TCGAGGCAAC-ACGCGGAGC	---	GC--TAGTCGTTT	-----	
<i>Tribolium_castaneum</i>	tactca	-----	GTGGTTCACCAA--GCCTAACTC	---	ACGGGGTAAC-TTACAGAGT	---	TC--TCGTAACTC	-----	

Consensus



	210	220	230	240	250	260	270	280	290
<i>Acyrtosiphon_pisum</i>	CCGATTGTCCACATCACGACCTGAGG-AAAGTCCCCGG	---	AC-CTCCGGCAGAGAGTG-CAACCGGCTCAA	-----	-----	-----	-----	-----	-----
<i>Aedes_aegyptii</i>	CGTAGCAACCTTTGCTCACCATTGGGT-AAAGTCCCCAG	---	GC-CGAGGACAGAAAGTG-TCAGGATCTAAAAC	---	-----	-----	-----	-----	-----
<i>Agrilus_planipennis</i>	-----	AGCATACGCCCTGAGA-AAGTCCCCGG	---	AC-ACGTGGTAGAAAGTA-CGCGCAACAAAATT	CG	-----	-----	-----	-----
<i>Anopheles_arabiensis</i>	GCTTCACACCGAAGCATGCCATGGGA-AAAGTCCCCGG	---	GC-CCCGGGCAGAAAGTG-TCAGGACGTGA	---	-----	-----	-----	-----	-----
<i>Anopheles_gambiae</i>	GCTTCACACCGAAGCATGCCATGGGA-AAAGTCCCCGG	---	GC-CCCGGGCAGAAAGTG-TCAGGACGTGA	---	-----	-----	-----	-----	-----
<i>Anoplophora_glabripennis</i>	-----	CATTTCGCTTTGAGG-AAGTCCCCGG	---	AC-CCGTGGTAGAGAGTA-CCGTGGGTGTA	---	-----	-----	-----	-----
<i>Apis_mellifera</i>	-----	TCAACTGTCTCTGAGG-AAAGTCCCTGG	---	ACAATTGGACAGAAAGTG-TCGTAACATA	---	-----	-----	-----	-----
<i>Atta_cephalates</i>	-----	TTTATCGCTCTGAGG-AAAGTCCCTGG	---	AC-TCGTGGCAGAAAGTG-CCGTAGCTTTTGGCTA	---	-----	-----	-----	-----
<i>Bombyx_mori</i>	-----	ATACTCACCCTGTGG-AAAGTCCCCGG	---	AG-ACGAGGCGGAAAGTA-CCACATCGTTATGATGGTAG	---	-----	-----	-----	-----
<i>Ceratitis_capitata</i>	-----	TATAATTACCCCTGGGT-AAAGTCCCCGG	---	GC-CTAGGATAGAAAGTA-TCAAGGTGTGAAAAGGTGCAAAACAAAAACAACTGTGTTT	---	-----	-----	-----	-----
<i>Culex_quinquefasciatus</i>	-----	CCCGCCCCCTTACCATTGGGT-AAAGTCCCCAG	---	GC-CGAGGACAGAAAGTGTTTCAGGATCTAAC	---	-----	-----	-----	-----
<i>Diphorina_citri</i>	-----	ATATCGCTCAGGGG-AAAGTCCCTCGGATAC-GCAGATAGAAAGTATCGGCAATCTAA	---	-----	-----	-----	-----	-----	-----
<i>Drosophila_grimshawi</i>	--	TCATAATATGATCACACCCTGGGT-AAAGTCCCCGG	---	GC-CTAGGATAGAAAGTA-TCAAGGCGTAAACGAGAAAAGTATTTGTTTCGCCGACAACG	---	-----	-----	-----	-----
<i>Drosophila_melanogaster</i>	-----	AACTGATAATGCCCTGGGGCAAGTCCCCGG	---	GC-CTAGGATAGAAAGTA-TCAAGGTGTA	AAA	---	-----	-----	AGTGTGC
<i>Drosophila_pseudoobscura</i>	-----	TCTCGATCAATGCCCTGGGT-AAAGTCCCCGG	---	GC-CTAGGATAGAAAGTA-TCAAGGTGTAAAATTG	---	-----	-----	-----	CAT
<i>Drosophila_virilis</i>	-----	TCATTTTATCACCCCTGGGT-AAAGTCCCCGG	---	GC-CAAGGATAGAAAGTA-TCAAGGCGTAAAA	---	-----	-----	-----	AA
<i>Ephemera_Danica</i>	---	TGCCCGAGTTCACGCTCGGAG-AAAGTCCCCGG	---	AC-CCTCGGCAGAAAGTG-CCGTGGCGCAAGCCA	---	-----	-----	-----	-----
<i>Glossina_morsitans</i>	-----	TTGTTTGACACCCCTGGGA-AAAGTCCCCGG	---	GT-CCAGGATAGAAAGTA-TCAAGGCGTAAAAAGTATTTATTTAAATGCTCAAAAGACTC	---	-----	-----	-----	-----
<i>Ladona_fulva</i>	-----	TTTCATCCCCAG-AAAGTCCCTGG	---	AT-TCCCCGTAGAGAGTA-CCGCGGTGCAAGCGCG	---	-----	-----	-----	-----
<i>Leptinotarsa_decemlineata</i>	-----	ATTACGACCCCTGGG-AAAGTCCCCGG	---	AT-CCCTGGTAGAGAGTA-CCGCGGATGTGCGG	---	-----	-----	-----	-----
<i>Lutzomyia_longipalpis</i>	-----	TTTACTGTGCCCTGTGG-AAAGTCCCCGG	---	GC-ACGTGGTAGAAAGTATCTTCGAAGTCTAGCGGCTTCCAAAGGCAGTTGGGCATGCGC	---	-----	-----	-----	-----
<i>Mayetiola_destructor</i>	ATTTTATGGTTTTTCTATCTGGA-AAAGTCCCCGG	---	GC-CTGTAGTAGAAAGTA-CTGATGCTAA	---	-----	-----	-----	-----	-----
<i>Nasonia_vitripennis</i>	-----	TCAACGCGCTCTGAGCGAAGTCCCTGG	---	AT-CTCGGGCAGAAAGTG-CCGCGGCTGTATCGCGCTG	---	-----	-----	-----	-----
<i>Onthophagus_taurus</i>	-----	AAATTTATCCTGAG-AAAGTCCCCGG	---	AT-CTCTGGTAGAAAGTA-CCGTGGGTTT	---	-----	-----	-----	-----
<i>Pediculus_humanus</i>	---	ACACACACGCTAATGCTCGGTGG-AAAGTCTCCGG	---	AT-CTTATGACAGAGAGTG-CAGCAGTGTCAAGCTG	---	-----	-----	-----	-----
<i>Rhodnius_prolixus</i>	-----	AAAATAGCCTTGTTGG-AAAGTCCCCGG	---	AC-ATCCAACAGAAAGTG-TTGATCTAGTTTCA	---	-----	-----	-----	-----
<i>Tribolium_castaneum</i>	-----	ACACACCTTGTTGG-AAAGTCCCCGG	---	AT-CCGTGGTAGAAAGTA-CCGTGGGTT	---	-----	-----	-----	-----

Consensus



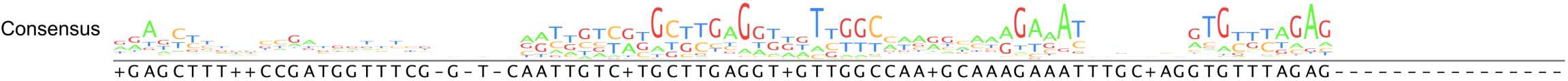
	310	320	330	340	350	360	370	380	390
<i>Acyrtosiphon_pisum</i>	-----	CGCCGTTTCGATTCCGCCCCGCTC	---	-----	-----	-----	-----	-----	-----
<i>Aedes_aegyptii</i>	-----	TTGGTCCC	---	TATTGCATGGTCACGTCAAAACTGACCCGTTGCAACATGCAAAATCGCAAT	---	-----	-----	-----	-----
<i>Agrilus_planipennis</i>	-----	GTAGCCTCGAATCCGAGCCGATGCA	---	-----	-----	-----	-----	-----	-----
<i>Anopheles_arabiensis</i>	-----	CTCGTCCCGCTTGTCACAC	---	-----	-----	-----	-----	-----	-----
<i>Anopheles_gambiae</i>	-----	CTCGTCCCGCTTGTCACAC	---	-----	-----	-----	-----	-----	-----
<i>Anoplophora_glabripennis</i>	-----	CCAGTC	---	-----	-----	-----	-----	-----	-----
<i>Apis_mellifera</i>	-----	TTGTTTA	---	-----	-----	-----	-----	-----	-----
<i>Atta_cephalates</i>	-----	TCAGCCTCCGTCTTTCGCGAATTT	---	-----	-----	-----	-----	-----	-----
<i>Bombyx_mori</i>	-----	-----	-----	-----	-----	-----	-----	-----	-----
<i>Ceratitis_capitata</i>	GTGATTGTTTGTGTTGTC	-----	-----	TTCGCCTA	---	TATTCCGAGGAAATC	-----	CGCCAGACGCCATAAACGAAGAGAG	---
<i>Culex_quinquefasciatus</i>	-----	-----	-----	CGGGTCCA	---	TATTGCATAGTCTCGTAACAAAGGACTTGTTGCAAAATCGCAAAATCGAC	---	-----	-----
<i>Diphorina_citri</i>	-----	-----	-----	-----	-----	TCGATTGAACTTC	---	CGCAATACAACGCTTGATGAGAG	---
<i>Drosophila_grimshawi</i>	GTTCGCAAAATATTATATA	-----	-----	TACGCCTA	---	TATTTTCGCGGTATTT	---	CGCCATGCGT-ACTCCAATGAAGAG	---
<i>Drosophila_melanogaster</i>	ACAAAACACCCACCCCTGTGGTGGGTGGTGCATTCGCTA	---	-----	TATTTCTCGGAATTT	---	-----	-----	CGCCTGGCGTATGGATGAAGAGGAT	---
<i>Drosophila_pseudoobscura</i>	GTTTCTTGGCCTCTCTAGAGAAAGGCGACATTCGCCTA	---	-----	TATTCGCGGAAGT	---	-----	-----	CGCCTGGCT-ATGATGAAGAG	---
<i>Drosophila_virilis</i>	ACAGTTGGTGGCAGCATCCCGCCGTCTGTTTACAATTCGCCTA	---	-----	TATTTTCGCGGTATTT	---	-----	-----	CGCCTTGGCT-ACTCCAATGAAGAG	---
<i>Ephemera_Danica</i>	-----	-----	-----	CTGTCTCCAGCACAGC	---	-----	-----	CACCTTTGGGATGGGAAGAGGAAACTC	---
<i>Glossina_morsitans</i>	TCGTCCGATAGTTCTGCTGCAATTTTAATTAATATTCGCCTA	---	-----	TATTCATGGAATTT	---	-----	-----	CTCTTAGCATGAATCAATGAAGAGT	---
<i>Ladona_fulva</i>	-----	-----	-----	TTAG	---	-----	-----	CACCACGCGCATCGCATCGGAGGGA	---
<i>Leptinotarsa_decemlineata</i>	-----	-----	-----	TTAGCGACAAGCGACGCTGA	---	-----	-----	CGCAAGATAGGACAGATCGGTG	---
<i>Lutzomyia_longipalpis</i>	GCTACTCCAAATGACGAGA	-----	-----	TACCTTCGGTAGATTGT	---	-----	-----	CGTCCGCGGCTGAGGCGGAGCAAA	---
<i>Mayetiola_destructor</i>	-----	-----	-----	CTCGCATTTATTACAGT	---	-----	-----	TGTGAGCGTTTGGCCCATAAATGCGAT	---
<i>Nasonia_vitripennis</i>	-----	-----	-----	TTAGCCTC	---	-----	-----	CGCCGTCCGC	---
<i>Onthophagus_taurus</i>	-----	-----	-----	-----	-----	-----	-----	CGTAGATGACGCCATTTTATAGGTTG	---
<i>Pediculus_humanus</i>	-----	-----	-----	-----	-----	-----	-----	-----	-----
<i>Rhodnius_prolixus</i>	-----	-----	-----	-----	-----	-----	-----	-----	-----
<i>Tribolium_castaneum</i>	-----	-----	-----	-----	-----	-----	-----	-----	-----

Consensus





	410	420	430	440	450	460	470	480	490													
<i>Acyrtosiphon_pisum</i>	GGTG	CACG	TTTC	GGGCGT	GTCC	GC	GATCCG	TAGGCC	GGCCGTGGGCG	ATTT	CG	ACTGGT	CCT	AG	A	T	---	ACAG	TATG	TAAAG	-----	
<i>Aedes_aegyptii</i>	AAAG	TTAT	GTCT	GAG	-----	-----	-----	AGTG	TCCGGGGAGC	AGGGGAG	ACGGCG	ACAGTGGG	CG	AC	---	---	---	GTGT	-----	-----	-----	
<i>Agrilus_planipennis</i>	-----	-----	-----	-----	-----	-----	-----	GGTG	TTTAAATT	CG	AGG	---	AATT	GT	CG	AG	AGCT	AG	AC	AT	-----	
<i>Anopheles_arabiensis</i>	-----	-----	-----	-----	-----	-----	-----	ATCT	CTCTTGGC	TTAG	AC	ATTGTG	---	---	---	---	---	AACT	TGCC	AG	ATATTTAC	AG
<i>Anopheles_gambiae</i>	-----	-----	-----	-----	-----	-----	-----	ATCT	CTCTTGGC	TTAG	AC	ATTGTG	---	---	---	---	---	AACT	TGCC	AG	ATATTTAC	AG
<i>Anoplophora_glabripennis</i>	TGGG	CCAT	CGGCG	-----	-----	-----	-----	CGCC	GATATGTCTG	CGGTGTTT	GT	CTAGT	ACG	AG	AG	AT	---	---	---	---	---	
<i>Apis_mellifera</i>	GAAG	CTT	CGG	CAGATCCTTTT	-----	-----	-----	CG	AGTTAGG	ACGAGAGT	G	TATTGGTCAA	AG	AAAAGT	CAT	---	---	---	---	---	---	
<i>Atta_cephalates</i>	GAAG	CTT	CGGCCG	GATCCTTCGC	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Bombyx_mori</i>	-----	-----	-----	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Ceratitis_capitata</i>	CAAT	CG	-----	-----	-----	-----	-----	AG	TTTTCG	TGCGTT	CGGTG	TCC	AC	---	---	---	---	---	---	---	---	
<i>Culex_quinquefasciatus</i>	-----	-----	-----	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Diphorina_citri</i>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Drosophila_grimshawi</i>	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Drosophila_melanogaster</i>	TTT	AT	CCG	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Drosophila_pseudoobscura</i>	GG	AT	CC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Drosophila_virilis</i>	AG	ACCC	CTT	ATTAAGGGTCTCG	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Ephemera_Danica</i>	TG	AT	CT	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Glossina_morsitans</i>	AA	AG	TTTG	ACGAATTG	ATGCTAGG	TGTC	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Ladona_fulva</i>	AG	AT	CTT	CATCTG	ACCGT	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Leptinotarsa_decemlineata</i>	-----	-----	-----	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Lutzomyia_longipalpis</i>	GG	AA	AT	GAA	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Mayetiola_destructor</i>	AAA	AG	TTTT	CG	ACTTTTTG	ATTTTCG	TGG	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Nasonia_vitripennis</i>	GA	AG	CCT	CTCG	CGGCTG	ATCTT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Onthophagus_taurus</i>	GG	ATTT	G	AT	CCTG	TAA	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Pediculus_humanus</i>	ACT	G	CT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Rhodnius_prolixus</i>	TG	AT	TG	-----	-----	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<i>Tribolium_castaneum</i>	ATT	CT	G	T	AC	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	



	510	520	530	540	550	560	570	580	590
<i>Acyrtosiphon_pisum</i>	---	---	---	---	---	---	---	---	---
<i>Aedes_aegyptii</i>	---	---	---	---	---	---	---	---	---
<i>Agrilus_planipennis</i>	---	---	---	---	---	---	---	---	---
<i>Anopheles_arabiensis</i>	---	---	---	---	---	---	---	---	---
<i>Anopheles_gambiae</i>	---	---	---	---	---	---	---	---	---
<i>Anoplophora_glabripennis</i>	---	---	---	---	---	---	---	---	---
<i>Apis_mellifera</i>	TT	A	CA	AT	C	CT	T	T	T
<i>Atta_cephalates</i>	---	---	---	---	---	---	---	---	---
<i>Bombyx_mori</i>	---	---	---	---	---	---	---	---	---
<i>Ceratitis_capitata</i>	---	---	---	---	---	---	---	---	---
<i>Culex_quinquefasciatus</i>	---	---	---	---	---	---	---	---	---
<i>Diphorina_citri</i>	---	---	---	---	---	---	---	---	---
<i>Drosophila_grimshawi</i>	---	---	---	---	---	---	---	---	---
<i>Drosophila_melanogaster</i>	---	---	---	---	---	---	---	---	---
<i>Drosophila_pseudoobscura</i>	---	---	---	---	---	---	---	---	---
<i>Drosophila_virilis</i>	---	---	---	---	---	---	---	---	---
<i>Ephemera_Danica</i>	---	---	---	---	---	---	---	---	---
<i>Glossina_morsitans</i>	---	---	---	---	---	---	---	---	---
<i>Ladona_fulva</i>	---	---	---	---	---	---	---	---	---
<i>Leptinotarsa_decemlineata</i>	---	---	---	---	---	---	---	---	---
<i>Lutzomyia_longipalpis</i>	---	---	---	---	---	---	---	---	---
<i>Mayetiola_destructor</i>	---	---	---	---	---	---	---	---	---
<i>Nasonia_vitripennis</i>	---	---	---	---	---	---	---	---	---
<i>Onthophagus_taurus</i>	---	---	---	---	---	---	---	---	---
<i>Pediculus_humanus</i>	---	---	---	---	---	---	---	---	---
<i>Rhodnius_prolixus</i>	---	---	---	---	---	---	---	---	---
<i>Tribolium_castaneum</i>	---	---	---	---	---	---	---	---	---



	610	620	630	640	650	660	670	680	690
<i>Acyrtosiphon_pisum</i>	CC	CTTG	ACTT	AA	TGGGGCTT	ATCA	ACGG	---	---
<i>Aedes_aegyptii</i>	---	---	---	---	---	---	---	---	---
<i>Agrilus_planipennis</i>	---	---	---	---	---	---	---	---	---
<i>Anopheles_arabiensis</i>	TCT	CT	CAC	ACA	ATGGGGCTT	AC	---	---	---
<i>Anopheles_gambiae</i>	TCT	CT	CAC	ACA	ATGGGGCTT	AC	---	---	---
<i>Anoplophora_glabripennis</i>	---	---	---	---	---	---	---	---	---
<i>Apis_mellifera</i>	TG	TCT	AACT	AA	ACAGGGCT	CAT	---	---	---
<i>Atta_cephalates</i>	AT	TT	AA	ACCG	AACAGGGCTT	ATCG	---	---	---
<i>Bombyx_mori</i>	GCT	CAA	ACG	AA	ATGGGGCTT	AC	---	---	---
<i>Ceratitis_capitata</i>	T	CGT	G	C	ACGAATGGGGCTT	AT	---	---	---
<i>Culex_quinquefasciatus</i>	CG	T	CA	AG	CACAATGGGGCTT	AC	---	---	---
<i>Diphorina_citri</i>	---	---	---	---	---	---	---	---	---
<i>Drosophila_grimshawi</i>	G	T	CT	AC	ACGGAATGGGGCTT	AC	---	---	---
<i>Drosophila_melanogaster</i>	G	C	CT	AC	ACAGAATGGGGCTT	AC	---	---	---
<i>Drosophila_pseudoobscura</i>	G	C	CT	AC	ACAGAATGGGGCTT	AC	---	---	---
<i>Drosophila_virilis</i>	G	C	CT	AC	ACGGAATGGGGCTT	AC	---	---	---
<i>Ephemera_Danica</i>	---	---	---	---	---	---	---	---	---
<i>Glossina_morsitans</i>	---	---	---	---	---	---	---	---	---
<i>Ladona_fulva</i>	---	---	---	---	---	---	---	---	---
<i>Leptinotarsa_decemlineata</i>	---	---	---	---	---	---	---	---	---
<i>Lutzomyia_longipalpis</i>	---	---	---	---	---	---	---	---	---
<i>Mayetiola_destructor</i>	A	A	T	CT	ACCTT	AA	TGGGGCTT	AC	---
<i>Nasonia_vitripennis</i>	---	---	---	---	---	---	---	---	---
<i>Onthophagus_taurus</i>	---	---	---	---	---	---	---	---	---
<i>Pediculus_humanus</i>	---	---	---	---	---	---	---	---	---
<i>Rhodnius_prolixus</i>	---	---	---	---	---	---	---	---	---
<i>Tribolium_castaneum</i>	---	---	---	---	---	---	---	---	---



	710	720
<i>Acyrtosiphon_pisum</i>	a	a
<i>Aedes_aegyptii</i>	t	t
<i>Agrilus_planipennis</i>	c	c
<i>Anopheles_arabiensis</i>	a	a
<i>Anopheles_gambiae</i>	a	a
<i>Anoplophora_glabripennis</i>	c	c
<i>Apis_mellifera</i>	a	a
<i>Atta_cephalates</i>	t	t
<i>Bombyx_mori</i>	c	c
<i>Ceratitis_capitata</i>	---	---
<i>Culex_quinquefasciatus</i>	t	t
<i>Diphorina_citri</i>	t	t
<i>Drosophila_grimshawi</i>	g	g
<i>Drosophila_melanogaster</i>	t	t
<i>Drosophila_pseudoobscura</i>	c	c
<i>Drosophila_virilis</i>	c	c
<i>Ephemera_Danica</i>	t	t
<i>Glossina_morsitans</i>	a	a
<i>Ladona_fulva</i>	t	t
<i>Leptinotarsa_decemlineata</i>	t	t
<i>Lutzomyia_longipalpis</i>	t	t
<i>Mayetiola_destructor</i>	t	t
<i>Nasonia_vitripennis</i>	c	c
<i>Onthophagus_taurus</i>	a	a
<i>Pediculus_humanus</i>	t	t
<i>Rhodnius_prolixus</i>	a	a
<i>Tribolium_castaneum</i>	a	a

