SUPPLEMENTS

Supplementary Table 3.1. List of candidate genes based on CDS estimation of Tajima's D (using outlier values) or MK test (using G test significance). CDS are selected based on consistencies of this parameters across 5 or more group of samples (8 total). Bolded CDS represent genes of interest involved in reproductive isolation and or timing traits. Chromosome number: 1 represents the sex chromosome, subsequent numbers represent different autosomes. Zero represents unassigned chromosome for that CDS.

CDS ID	Top Tajima's D Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Annotation
ostnu00gbab.0.1	**X**			**1**	**Outside**	**Bric-a-brac**
ostnu00g0102506.0.1	**X**			**1**	**Outside**	**Adenylate cyclase type 5-like protein 5NpXX**
ostnu00g0121712.0.1			**X**	**4**	**A**	**Ecdysis triggering hormone receptor isoform B 5NOC3**
ostnu00g0111866.0.1			**X**	**5**	**A**	**Timeless 5NocX**
ostnu00g0117886.0.1	**X**			**8**	**A**	**Female-specific doublesex isoform F2 5NOC3**

ostnu00g0108123.0.1		**X**		**0**	**UN**	**Insect cuticle protein 5NOC3**
ostnu00g0115760.0.1			**X**	**0**	**UN**	**Putative oocyte-testis protein 1 XXpXX**
ostnu00g0103392.0.2			X	1	Outside	Function unknown 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0103775.0.1	X			1	Inside	Pleckstrin homology domain-containing family G member 5-like protein XXpXX
ostnu00g0106797.0.1	X			2		Protein-lysine methyltransferase METTL21D-like protein 5NOC3
ostnu00g0104998.0.2	X			3		Function unknown 5NocX
ostnu00g0100465.0.9	X			4		Protein bunched
ostnu00g0110501.0.2	X			4		Mediator of RNA polymerase II transcription subunit 13-like protein XXpXX
ostnu00g0110507.0.2	X		X	4		Protein outspread 5NpXX

ostnu00g0116878.0.3			X	4		Function unknown 5NOC3
ostnu00g0122853.0.1			X	4		Function unknown 5NoC3
ostnu00g0124752.0.2			X	4		Putative farnesoic acid o-methyltransferase-like isoform 1 protein 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0128705.0.1			X	4		UDP-N-acetylglucosamine pyrophosphorylase 5NoC3
ostnu00g0108862.0.1			X	5		Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2-like protein XXpC3
ostnu00g0109433.0.1			X	5		26S proteasome non-ATPase regulatory subunit 3 5NOC3
ostnu00g0111815.0.2			X	5		Transformation/transcription domain-associated protein-like protein XXpXX
ostnu00g0111838.0.1			X	5		Mannose-P-dolichol utilization defect 1 protein homolog 5NOC3

ostnu00g0118934.0.1	X			5		U7 snRNA-associated Sm-like protein LSm11-like protein 5NoC3
ostnu00g0120607.0.1			X	5		Function unknown XXpXX
ostnu00g0126133.0.1	X			5		Function unknown 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0130833.0.5		X		5		Nesprin-2-like protein XnoC3
ostnu00g0130976.0.1			X	5		Bystin 5NOC3
ostnu00g0118822.0.1	X			7		N-alpha-acetyltransferase 15
ostnu00g0123876.0.1			X	7		NF-X1-type zinc finger protein NFXL1 XnpXX
ostnu00g0104569.0.1	X			8		Function unknown XXpC3
ostnu00g0104652.0.1	X			8		Putative jumonji domain containing 1A XXpXX
ostnu00g0114634.0.1			X	8		Structural maintenance of chromosomes protein 3-like protein 5NOC3
ostnu00g0115156.0.1			X	8		Reverse transcriptase

ostnu00g0117910.0.1	X			8		Putative epidermal cell surface receptor-like protein XXpXX
ostnu00g0119019.0.1		X		8		Function unknown XXpXX
ostnu00g0122956.0.1	X			8		Exocyst complex component 5-like protein 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0105984.0.1	X			9		Function unknown 5NocX
ostnu00g0108956.0.1		X		9		Splicing factor
ostnu00g0128984.0.1			X	10		Function unknown XXpXX
ostnu00g0129839.0.1		X		10		Flocculation protein FLO11-like protein 5NOC3
ostnu00g0130619.0.2			X	12		Breast cancer 1
ostnu00g0103268.0.1	X			14		Function unknown 5NOC3
ostnu00g0107337.0.1			X	14		Nucleolar protein 12-like protein 5NOC3
ostnu00g0107374.0.1			X	14		Unconventional myosin class XV
ostnu00g0119699.0.1		X		19		Function unknown XXpXX

ostnu00g0127827.0.2	X			19		Trichohyalin-like protein 5NOC3
ostnu00g0104048.0.1	X			20		Function unknown XXpXX
ostnu00g0104054.0.3	X			20		Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase-like protein XXpXX
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0104204.0.1	X			20		Muscle M-line assembly protein unc-89-like protein XXpXX
ostnu00g0105259.0.2		X		20		Protein kinase C-like
ostnu00g0107931.0.1	X			20		RING finger protein 157-like protein 5NpXX
ostnu00g0110821.0.1		X		20		Function unknown 5NpXX
ostnu00g0117961.0.1			X	20		TRNA-splicing ligase RtcB homolog 5NOC3
ostnu00g0127496.0.2			X	20		Function unknown XXXXX
ostnu00g0109085.0.1			X	21		TRNA-splicing endonuclease subunit Sen2-like protein 5NpXX

ostnu00g0110226.0.1			X	21		Function unknown XXpXX
ostnu00g0127347.0.1			X	21		G patch domain and ankyrin repeat-containing protein 1 homolog XXpXX
ostnu00g0127366.0.2			X	21		TAK1-associated binding protein 2 isoform A 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0100517.0.1			X	23		Nucleoporin nup211-like isoform X1 XXpXX
ostnu00g0103593.0.1	X			24		Fasciclin-1 5NOC3
ostnu00g0106405.0.3	X			27		Putative fibrillin 2 5NocX
ostnu00g0116303.0.1		X		31		Putative histidine triad protein member XXpXX
ostnu00g0101563.0.2			X	UN		Seryl-tRNA synthetase
ostnu00g0103579.0.2	X			UN		Gata-binding factor-c (transcription factor gata-c) 5NOC3
ostnu00g0103672.0.2			X	UN		Zinc finger
ostnu00g0105903.0.1		X		UN		Protein VAC14 homolog XXpXX

ostnu00g0107509.0.2			X	UN		Protein no-on-transient A-like isoform X7 5NOC3
ostnu00g0109178.0.1			X	UN		Dual specificity protein phosphatase CDC14A-like protein XnoC3
ostnu00g0109307.0.2			X	UN		60S ribosomal protein L3-like protein 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0109762.0.1			X	UN		SHQ1
ostnu00g0113602.0.1			X	UN		Prip interacting protein
ostnu00g0113988.0.1			X	UN		ZZ-type zinc finger-containing protein 3-like protein 5NOC3
ostnu00g0114137.0.1			X	UN		RNA-binding protein 40-like protein XXpXX
ostnu00g0114495.0.1			X	UN		Zinc finger
ostnu00g0115289.0.1		X		UN		Homeobox protein cut-like protein 5NpXX
ostnu00g0115353.0.1			X	UN		Strabismus/van gogh-like protein 5NocX
ostnu00g0116245.0.1			X	UN		Function unknown XXpXX

ostnu00g0120798.0.1			X	UN		H/ACA ribonucleoprotein complex subunit 4-like protein 5NOC3
ostnu00g0122888.0.1			X	UN		N-acetylglucosaminyl-phosphatidylinositol biosynthetic protein-like protein 5NOC3
CDS ID	**Top Tajima's D Outlier (Under Balancing Selection)**	**Bottom Tajima's D Outlier (Under Directional Selection)**	**Significant MK test result (Under Selection)**	**Chrom.**	**Inside Sex Chromosome Rearrangement**	**Annotation**
ostnu00g0123031.0.1			X	UN		Protein FAM116A-like protein 5NoC3
ostnu00g0127001.0.1			X	UN		Similar to protease
ostnu00g0128692.0.1	X			UN		WD repeat-containing protein 47-like protein 5NpXX
ostnu00g0129611.0.1			X	UN		FK506 binding protein 15
ostnu00g0129941.0.1			X	UN		Function unknown 5NOC3
ostnu00g0131093.0.1			X	UN		L-2-hydroxyglutarate dehydrogenase
ostnu00g0131246.0.1		X		UN		Function unknown 5NpXX

Supplementary Table 3.2. List of candidate genes based on CDS estimation of Tajima's D (using outlier values) or MK test (using G test significance) based on Rock Springs Populations. CDS are selected based on consistencies of this parameters on both strains. Bolded CDS represent genes of interest involved in reproductive isolation and or timing traits. Chromosome number: 1 represents the sex chromosome, subsequent numbers represent different autosomes. Zero represents unassigned chromosome for that CDS within. If CDS is located in a Fst outlier region (either in the top or lower ends of the distribution).

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0110762.0.1			**X**	**UN**			**Ommochrome-binding protein-like protein XXpXX**
ostnu00g0108123.0.1		**X**		**UN**			**Insect cuticle protein 5NOC3**
ostnu00g0115760.0.1			**X**	**UN**			**Putative oocyte-testis protein 1 XXpXX**
ostnu00g0115824.0.1	**X**			**1**	**Inside**	**Top**	**Magu**
ostnu00gbab.0.1	**X**			**1**	**Outside**	**Top**	**Bric-a-brac**
ostnu00g0102506.0.1	**X**			**1**	**Outside**	**Top**	**Adenylate cyclase type 5-like protein 5NpXX**

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0121712.0.1			**X**	**4**			**Ecdysis triggering hormone receptor isoform B 5NOC3**
ostnu00g0117536.0.1	X			1	Outside	Top	PQ-loop repeat-containing protein 3-like protein 5NoC3
ostnu00g0117678.0.2	X			1	Inside	Top	Nervous wreck S 5NoC3
ostnu00g0118571.0.1			X	1	Outside		Putative zinc-dependent alcohol dehydrogenase 5NOC3
ostnu00g0118587.0.1			X	1	Outside		Function unknown XXXXX
ostnu00g0120754.0.1			X	1	Inside		Function unknown XnocX
ostnu00g0120757.0.2	X			1	Inside	Low	Nostrin-like protein 5NpXX
ostnu00g0123279.0.1			X	1	Outside	Low	Reverse transcriptase XXXXX
ostnu00g0129227.0.2	X			1	Inside		Fh1/fh2 domains-containing protein (formin homolog overexpressed in spleen) (fhos) 5NpXX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0109859.0.2	X			1	Inside	Top	Homeobox protein araucan-like protein XXpXX
ostnu00g0117672.0.1			X	1	Inside		Chaperone activity of bc1 complex-like
ostnu00g0103392.0.2			X	1	Outside		Function unknown 5NOC3
ostnu00g0103775.0.1	X			1	Inside	Top	Pleckstrin homology domain-containing family G member 5-like protein XXpXX
ostnu00g0104314.0.2	X			1	Inside	Top	JNK-interacting protein 3-like protein 5NOC3
ostnu00g0106249.0.1			X	1	Outside		Laminin subunit alpha-like protein XXpXX
ostnu00g0109839.0.1	X			1	Inside		Glycerol kinase XnoC3
ostnu00g0109850.0.1	X			1	Inside	Low	Ankyrin repeat-containing protein XXpXX
ostnu00g0109867.0.1	X			1	Inside		Function unknown XXXXX
ostnu00g0110732.0.1			X	1	Inside		Function unknown XXXXX
ostnu00g0110737.0.2		X		1	Inside	Top	Function unknown 5NocX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0112897.0.1	X			1	Inside		UDP-sugar transporter UST74c-like protein 5NOC3
ostnu00g0101645.0.1		X		2		Top	CCR4-NOT transcription complex subunit 6-like protein 5NpXX
ostnu00g0105155.0.1		X		2			Transcription initiation factor IIA subunit 1-like protein XXpXX
ostnu00g0106797.0.1	X			2		Top	Protein-lysine methyltransferase METTL21D-like protein 5NOC3
ostnu00g0106826.0.5	X			2		Low	LIM and senescent cell antigen-like-containing domain protein 2-like protein XXXXX
ostnu00g0106829.0.2	X			2		Top	Glutamate dehydrogenase
ostnu00g0106934.0.1			X	2		Top	Zinc finger

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0106946.0.1			X	2			Double-strand-break repair protein rad21 homolog XXpC3
ostnu00g0107092.0.1		X		2			Zinc finger
ostnu00g0107106.0.1	X			2			Eukaryotic initiation factor 4B protein 5NpXX
ostnu00g0107205.0.4			X	2			Double-strand-break repair protein rad21 homolog XXpXX
ostnu00g0119307.0.2			X	2			Protein Peter pan-like protein XXpXX
ostnu00g0119407.0.1			X	2			Mitogen-activated protein kinase 4-like protein XXpXX
ostnu00g0121120.0.2			X	2			ER membrane protein complex subunit 1-like protein XXpXX
ostnu00g0121128.0.1			X	2			Serine/threonine-protein kinase LATS1-like protein XnoC3

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0102815.0.1	X			3			Adenosine 3'-phospho 5'-phosphosulfate transporter 2 5NOC3
ostnu00g0104980.0.1		X		3			Function unknown XXXXX
ostnu00g0104992.0.1			X	3			Ubiquitin-protein ligase BRE1 XnoC3
ostnu00g0104998.0.2	X			3		Top	Function unknown 5NocX
ostnu00g0105007.0.2	X			3			Peptidyl-prolyl cis-trans isomerase G-like protein 5NOC3
ostnu00g0105031.0.3			X	3		Low	Protein LSM14 homolog A-like isoform X1 5NOC3
ostnu00g0105050.0.1	X			3		Top	Function unknown XXXXX
ostnu00g0105058.0.1			X	3			Transmembrane protein 223-like protein 5NOC3
ostnu00g0105059.0.1	X			3			Function unknown XXXXX
ostnu00g0113069.0.1			X	3		Low	Suppressor of profilin 2 5NOC3
ostnu00g0115877.0.1			X	3		Low	Function unknown XXXXX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0115889.0.1		X		3		Top	WASH complex subunit strumpellin XXpXX
ostnu00g0118620.0.1			X	3			Craniofacial development protein 1/Bucentaur XXpXX
ostnu00g0118641.0.1			X	3			Function unknown XXpXX
ostnu00g0129685.0.1	X			3			Function unknown XXXXX
ostnu00g0129691.0.1			X	3			Ethanolamine-phosphate cytidylyltransferase-like isoform X2 5NOC3
ostnu00g0129696.0.1	X			3		Low	N-alpha-acetyltransferase 60-like protein 5NOC3
ostnu00g0100401.0.1			X	4			Function unknown 5NOC3
ostnu00g0100465.0.9	X			4		Low	Protein bunched
ostnu00g0106157.0.1			X	4			SAM domain (Sterile alpha motif) 5NOC3
ostnu00g0106672.0.1			X	4			Hemocytin XXpcX
ostnu00g0110453.0.1	X			4			Function unknown XnoC3
ostnu00g0110460.0.1			X	4		Low	Function unknown XnoC3
ostnu00g0110472.0.1		X		4			Function unknown XXXXX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0110501.0.2	X			4			Mediator of RNA polymerase II transcription subunit 13-like protein XXpXX
ostnu00g0110502.0.1		X		4		Low	Integrin alpha-PS2-like protein 5NOC3
ostnu00g0110507.0.2	X		X	4		Top	Protein outspread 5NpXX
ostnu00g0110519.0.1			X	4			Mitochondrial ribosomal protein
ostnu00g0110529.0.3			X	4			Beta-1
ostnu00g0112934.0.2			X	4			DNA photolyase
ostnu00g0113867.0.1			X	4		Low	Leucine-rich transmembrane protein XXpcX
ostnu00g0114212.0.1		X		4		Low	Function unknown XXXXX
ostnu00g0114233.0.3			X	4			Type I inositol-1
ostnu00g0114936.0.1			X	4			Function unknown XXXXX
ostnu00g0116379.0.1		X		4		Low	Cytochrome b561/ferric reductase transmembrane protein XXpXX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0116397.0.1	X			4		Top	Ecdysone receptor A isoform specific region XXpXX
ostnu00g0116404.0.1			X	4			Heat shock protein DnaJ
ostnu00g0116767.0.1			X	4			Polyprotein XnoC3
ostnu00g0116866.0.3		X		4			Zinc finger protein on ecdysone puffs XXpXX
ostnu00g0116875.0.1			X	4			PiggyBac transposable element derived 3 XXpXX
ostnu00g0116878.0.3			X	4		Low	Function unknown 5NOC3
ostnu00g0116890.0.1		X		4		Low	Leucyl-tRNA synthetase
ostnu00g0116902.0.1		X		4			Function unknown XXXXX
ostnu00g0116912.0.1			X	4			Negative elongation factor D-like isoform X2 5NOC3
ostnu00g0117478.0.2			X	4			Dosage compensation regulator-like isoform 2 XnoC3
ostnu00g0120258.0.1			X	4		Top	Function unknown XXXXX

CDS ID	Top Tajima's Outlier (Under Balancing Selection)	Bottom Tajima's D Outlier (Under Directional Selection)	Significant MK test result (Under Selection)	Chrom.	Inside Sex Chromosome Rearrangement	Fst Outlier	Annotation
ostnu00g0120259.0.2			X	4			U2 snRNP-associated SURP motif-containing protein-like protein 5NpXX
ostnu00g0120559.0.1			X	4			Leucine-rich repeat-containing protein 49-like protein XXXXX
ostnu00g0120677.0.1		X		4			Function unknown XXpC3
ostnu00g0120682.0.1		X		4			Regulator of microtubule dynamics protein 1-like isoform X3 5NOC3
ostnu00g0121697.0.2			X	4			Similar to Histone-lysine N-methyltransferase
ostnu00g0121716.0.1			X	4			Transmembrane protein 93-like isoform 1 5NOC3
ostnu00g0122853.0.1			X	4			Function unknown 5NoC3
ostnu00g0124118.0.9	X			4		Top	Tudor domain protein XXpXX
ostnu00g0124167.0.2	X			4			Multiple coagulation factor deficiency protein 2

							homolog isoform X1 5NOC3
ostnu00g0124174.0.1		X		4			Cysteine proteinase inhibitor XnoC3
ostnu00g0124691.0.1			X	4			Function unknown XXXXX
ostnu00g0124700.0.4	X			4			Putative phosphoenolpyruvate synthase-like protein 5NpXX
ostnu00g0124702.0.1			X	4			Putative phosphoenolpyruvate synthase-like protein 5NpXX
ostnu00g0124713.0.2			X	4			Nucleoporin NUP188 homolog 5NOC3
ostnu00g0124740.0.1	X			4		Top	Viral A-type inclusion protein 5NOC3
ostnu00g0124752.0.2			X	4			Putative farnesoic acid o-methyltransferase-like isoform 1 protein 5NOC3
ostnu00g0124766.0.1	X			4			Zinc finger protein 532-like protein XXpXX
ostnu00g0124771.0.1	X			4			Guanine nucleotide exchange factor DBS-like protein 5NocX
ostnu00g0128322.0.1	X			4			Function unknown XXXXX

ostnu00g0128705.0.1			X	4			UDP-N-acetylglucosamine pyrophosphorylase 5NoC3
ostnu00g0128708.0.2		X		4			Alpha-1
ostnu00g0130514.0.1		X		4			Metal-dependent phosphohydrolase
ostnu00g0131694.0.1			X	4			Function unknown XXXXX
ostnu00g0131699.0.1		X		4			Function unknown 5NpXX
ostnu00g0131716.0.1			X	4			Oxysterol-binding protein-related protein 8-like protein XXpXX
ostnu00g0131736.0.1	X			4		Top	Function unknown XXpXX
ostnu00g0101726.0.1			X	5			Protein FAM73B-like protein XnoC3
ostnu00g0101729.0.1	X			5			Dyschronic
ostnu00g0101906.0.1			X	5			Function unknown XXXXX
ostnu00g0101914.0.2			X	5			General transcription factor IIIC
ostnu00g0101923.0.1			X	5		Low	Function unknown XXXXX
ostnu00g0102449.0.1			X	5			Leucine-rich repeat-containing protein 48-like protein XnocX
ostnu00g0103872.0.1			X	5			Plasminogen receptor (KT)-like protein XXpXX
ostnu00g0103913.0.3	X			5			Function unknown XXpXX
ostnu00g0104736.0.1			X	5		Top	Function unknown XXXXX
ostnu00g0104740.0.2		X		5			Function unknown 5NOC3

ostnu00g0104749.0.3			X	5			Protein purity of essence-like protein XnoC3
ostnu00g0104753.0.1		X		5			Stress-activated map kinase-interacting protein 1-like protein 5NOC3
ostnu00g0104756.0.4		X	X	5			Rab GTPase-activating protein 1-like isoform X2 5NpXX
ostnu00g0105588.0.2			X	5		Low	Zinc finger
ostnu00g0105855.0.1			X	5		Low	Parafibromin-like protein 5NpXX
ostnu00g0105861.0.1		X		5			40S ribosomal protein S5-like protein 5NOC3
ostnu00g0105864.0.1			X	5			Similar to mitochondrial processing peptidase alpha subunit XXpXX
ostnu00g0107555.0.1		X		5		Top	Protein spire-like protein 5NocX
ostnu00g0107991.0.1			X	5			Venom protease-like protein XXpXX
ostnu00g0108165.0.2		X		5		Low	Puratrophin-1-like protein 5NOC3
ostnu00g0108176.0.1			X	5		Low	Dolichyldiphosphatase 5NOC3
ostnu00g0108234.0.2	X			5		Top	Cysteine proteinase 7-like isoform X1 5NpXX

ostnu00g0108266.0.2	X			5			Prostaglandin E2 receptor EP4 subtype-like protein 5NOC3
ostnu00g0108834.0.1			X	5			Glycyl-tRNA synthetase 5NoC3
ostnu00g0108862.0.1			X	5			Putative RNA polymerase II subunit B1 CTD phosphatase RPAP2-like protein XXpC3
ostnu00g0109433.0.1			X	5			26S proteasome non-ATPase regulatory subunit 3 5NOC3
ostnu00g0109505.0.2	X			5			Major facilitator superfamily domain
ostnu00g0109506.0.4			X	5			Mediator of RNA polymerase II transcription subunit 12-like protein XnoC3
ostnu00g0109518.0.1		X		5		Top	Heparan sulfate 6-O-sulfotransferase 5NpXX
ostnu00g0109563.0.1		X		5			Repeat-containing protein 7-like isoform X1 5NOC3
ostnu00g0109567.0.1	X			5			Putative synaptic vesicular amine transporter XnoC3
ostnu00g0109576.0.2			X	5			Function unknown 5NOC3

ostnu00g0109578.0.3		X		5		Low	YTH domain family protein 3-like isoform X4 5NpXX
ostnu00g0109592.0.1		X		5			Function unknown XXXXX
ostnu00g0109594.0.2			X	5			Protein cereblon homolog XXXXX
ostnu00g0109596.0.2	X			5		Low	Eukaryotic translation initiation factor 2A-like protein 5NOC3
ostnu00g0109610.0.1	X			5			Function unknown XXXXX
ostnu00g0109615.0.1		X		5		Low	YTH domain family protein 3-like isoform X4 XnoC3
ostnu00g0110377.0.1		X		5			Function unknown XXXXX
ostnu00g0110382.0.1			X	5			Function unknown XXXXX
ostnu00g0110391.0.2			X	5			MORN repeat protein 5NOC3
ostnu00g0111774.0.1			X	5			Transformation/transcription domain-associated protein isoform 1 XXpXX
ostnu00g0111815.0.2			X	5			Transformation/transcription domain-associated protein-like protein XXpXX
ostnu00g0111838.0.1			X	5			Mannose-P-dolichol utilization defect 1 protein homolog 5NOC3

ostnu00g0111852.0.1			X	5			Dedicator of cytokinesis protein 9-like protein XXpXX
ostnu00g0111894.0.1			X	5		Low	Function unknown 5NOC3
ostnu00g0111918.0.1		X		5			Function unknown 5NpXX
ostnu00g0111940.0.1			X	5			Nucleolar protein 10-like protein 5NpXX
ostnu00g0111953.0.1		X		5		Low	Function unknown XXXXX
ostnu00g0113169.0.1	X			5		Top	Function unknown 5NpXX
ostnu00g0113172.0.5	X			5		Low	Golgin subfamily A member 1-like protein 5NOC3
ostnu00g0113406.0.1			X	5			Function unknown XXXXX
ostnu00g0113453.0.1			X	5			X-ray repair cross complementing protein 2
ostnu00g0114520.0.1			X	5			Dtdp-glucose 4-6-dehydratase XXpXX
ostnu00g0114714.0.1	X			5		Low	Tropomodulin-like isoform X1 5NpXX
ostnu00g0114734.0.1		X		5			Function unknown XXXXX
ostnu00g0114758.0.1			X	5			Function unknown 5NOC3
ostnu00g0114770.0.1		X		5		Low	Function unknown XXpXX
ostnu00g0114772.0.1	X			5			Geranylgeranyl pyrophosphate synthase-like isoform X1 5NOC3
ostnu00g0114826.0.1			X	5			Function unknown XXXXX

ostnu00g0116334.0.1			X	5			5'-Nucleotidase/apyrase 5NOC3
ostnu00g0117584.0.4			X	5		Top	Serine incorporator-like protein 5NOC3
ostnu00g0117701.0.4			X	5			Similar to coracle XnoC3
ostnu00g0117712.0.1			X	5			SNARE protein TLG2/syntaxin 16 XXpXX
ostnu00g0118934.0.1	X			5		Top	U7 snRNA-associated Sm-like protein LSm11-like protein 5NoC3
ostnu00g0120607.0.1			X	5			Function unknown XXpXX
ostnu00g0120622.0.1	X			5		Top	Zinc finger protein ush-like protein 5NOC3
ostnu00g0121016.0.3			X	5			Protein FAM160B1-like
ostnu00g0126133.0.1	X			5			Function unknown 5NOC3
ostnu00g0126161.0.1	X			5		Top	E3 ubiquitin-protein ligase mind-bomb-like protein 5NpXX
ostnu00g0126819.0.1			X	5		Top	Function unknown 5NpXX
ostnu00g0127549.0.4			X	5			Hematological and neurological expressed 1 protein-like protein 5NOC3
ostnu00g0129124.0.1	X			5			Zinc transporter ZIP10-like protein 5NOC3

ostnu00g0129157.0.2		X		5			Transmembrane BAX inhibitor motif-containing protein 5 5NOC3
ostnu00g0129182.0.1			X	5			Phosphorylated CTD-interacting factor 1-like protein 5NpXX
ostnu00g0129582.0.1			X	5		Top	Fizzy-related protein homolog 5NpXX
ostnu00g0130191.0.1			X	5			Cytochrome b-c1 complex subunit Rieske
ostnu00g0130478.0.1			X	5			GC-rich sequence DNA-binding factor 1-like protein 5NpXX
ostnu00g0130489.0.2			X	5			Neural Wiskott-Aldrich syndrome protein-like protein 5NpXX
ostnu00g0130603.0.5		X		5		Low	Iporin 5NoC3
ostnu00g0130686.0.2			X	5			Nuclear RNA export factor 1-like protein 5NpXX
ostnu00g0130705.0.1		X		5			Similar to potassium channel modulatory factor 1 XXpXX
ostnu00g0130708.0.2		X		5		Low	Microtubule-associated protein Jupiter-like isoform X3 XXpXX

ostnu00g0130732.0.1		X		5			Histone acetyltransferase type B catalytic subunit-like protein XXpXX
ostnu00g0130747.0.1		X		5			Function unknown XXXXX
ostnu00g0130833.0.5		X		5		Top	Nesprin-2-like protein XnoC3
ostnu00g0130834.0.1			X	5			Cleavage H-protein 5NpXX
ostnu00g0130852.0.1			X	5			Zinc finger
ostnu00g0130871.0.2		X		5		Top	Trithorax group protein osa-like protein XXpcX
ostnu00g0130976.0.1			X	5			Bystin 5NOC3
ostnu00g0131650.0.1		X		5			Putative COMM domain containing 2 5NOC3
ostnu00g0131666.0.1		X		5			Pseudouridine-5'-phosphate glycosidase 5NoC3
ostnu00g0105639.0.1			X	6			Function unknown XXXXX
ostnu00g0102843.0.1			X	7			N-acetyllactosaminide beta-1
ostnu00g0103539.0.6			X	7		Top	Muscle M-line assembly protein unc-89-like isoform X2 5NpXX
ostnu00g0105824.0.1			X	7			Centrosomal protein of 97 kDa 5NpXX
ostnu00g0111977.0.1			X	7		Low	Function unknown XXpC3
ostnu00g0112154.0.1			X	7			Function unknown XXpXX

ostnu00g0112809.0.3		X	X	7			NEDD4 family-interacting protein 1-like protein 5NOC3
ostnu00g0112867.0.1		X		7		Low	Protein inscuteable homolog 5NOC3
ostnu00g0115905.0.1		X		7		Top	Proteasome subunit alpha type-1-like protein XXpXX
ostnu00g0115912.0.1			X	7			Reverse transcriptase (RNA-dependent DNA polymerase) XXpXX
ostnu00g0118065.0.1			X	7			Mesoderm induction early response protein 1-like protein 5NoC3
ostnu00g0118148.0.1			X	7			Progestin and adipoQ receptor family member 3-like protein 5NOC3
ostnu00g0118364.0.1		X		7			Function unknown XXXXX
ostnu00g0118375.0.4		X		7		Top	Function unknown 5NoC3
ostnu00g0118822.0.1	X			7		Low	N-alpha-acetyltransferase 15
ostnu00g0118832.0.2	X			7			Nuclear transcription factor Y subunit alpha-like isoform X1 5NpXX
ostnu00g0120689.0.1			X	7			Putative transposon Ty3-I Gag-Pol polyprotein XnoC3
ostnu00g0123855.0.2			X	7			Nuclear orphan receptor XXpXX

ostnu00g0123876.0.1			X	7			NF-X1-type zinc finger protein NFXL1 XnpXX
ostnu00g0124850.0.1		X		7			Inactive dipeptidyl peptidase 10-like protein XXpXX
ostnu00g0100775.0.2	X			8			Hermansky-Pudlak syndrome 1 protein-like protein 5NpXX
ostnu00g0100782.0.1	X			8			Dihydroorotate dehydrogenase (quinone)
ostnu00g0102059.0.1			X	8			Function unknown XXpXX
ostnu00g0102085.0.1		X		8			Presenilin isoform B 5NpXX
ostnu00g0102086.0.1			X	8			CAAX prenyl protease 2-like protein 5NOC3
ostnu00g0102107.0.1			X	8		Low	CCA tRNA nucleotidyltransferase 1
ostnu00g0104569.0.1	X			8			Function unknown XXpC3
ostnu00g0104611.0.1			X	8			Transmembrane protein 230-like protein 5NOC3
ostnu00g0104630.0.2			X	8		Low	Function unknown XnocX
ostnu00g0104652.0.1	X			8		Top	Putative jumonji domain containing 1A XXpXX
ostnu00g0104655.0.1			X	8		Low	Similar to paramyosin 5NOC3
ostnu00g0105227.0.1			X	8			Function unknown 5NoC3

ostnu00g0106473.0.4			X	8		Low	Nuclear export mediator factor NEMF homolog isoform X1 XXpXX
ostnu00g0108484.0.1			X	8			Function unknown XXXXX
ostnu00g0112967.0.1	X			8		Low	Neurochondrin homolog 5NOC3
ostnu00g0113224.0.1	X			8			Muscarinic acetylcholine receptor DM1-like protein XnoC3
ostnu00g0113792.0.1			X	8			Function unknown XXpXX
ostnu00g0113805.0.5		X		8			Dicer-2 5NOC3
ostnu00g0113807.0.1			X	8			Function unknown XXpXX
ostnu00g0114664.0.2			X	8			Phospholipase D3-like protein 5NOC3
ostnu00g0114670.0.1			X	8			Structural maintenance of chromosomes smc3 XXpXX
ostnu00g0114683.0.1			X	8		Low	Glutamate semialdehyde dehydrogenase 5NOC3
ostnu00g0115156.0.1			X	8			Reverse transcriptase
ostnu00g0117871.0.1	X			8			Muscle M-line assembly protein unc-89-like protein 5NOC3
ostnu00g0117910.0.1	X			8			Putative epidermal cell surface receptor-like protein XXpXX

ostnu00g0117926.0.6		X		8		Top	Protein pellino 5NOC3
ostnu00g0117928.0.1			X	8		Top	Function unknown XXXXX
ostnu00g0118709.0.1			X	8			Conserved oligomeric Golgi complex subunit 2-like protein 5NOC3
ostnu00g0119010.0.1	X			8		Low	Ribosomal protein S6 kinase
ostnu00g0119016.0.1			X	8			Eukaryotic translation initiation factor 2 gamma subunit (eif-2- gamma) 5NOC3
ostnu00g0119019.0.1		X		8		Top	Function unknown XXpXX
ostnu00g0119038.0.1		X		8		Low	Function unknown 5NOC3
ostnu00g0119042.0.1		X		8		Low	Function unknown XXXXX
ostnu00g0121806.0.1		X		8		Low	Reverse transcriptase XnoC3
ostnu00g0121810.0.1	X			8			Ribosomal RNA processing protein 36 homolog 5NOC3
ostnu00g0121811.0.1	X			8			DNA double-strand break repair and VJ recombination XRCC4
ostnu00g0121817.0.1			X	8			Zinc finger protein 106-like protein 5NpXX
ostnu00g0122922.0.5			X	8			Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit alpha isoform-like protein 5NOC3

ostnu00g0122956.0.1	X			8		Top	Exocyst complex component 5-like protein 5NOC3
ostnu00g0122959.0.1			X	8		Low	Rap guanine nucleotide exchange factor 6-like isoform 2 XXpC3
ostnu00g0123987.0.1			X	8			Function unknown XXpXX
ostnu00g0126773.0.5		X		8		Low	Similar to Synaptosomal-associated protein 25 (SNAP-25) (Synaptosomal-associated 25 kDa protein) XXpXX
ostnu00g0126781.0.2			X	8		Top	Intron-binding protein aquarius 5NpXX
ostnu00g0103013.0.1			X	9			Transmembrane protein 214-like isoform X2 XnoC3
ostnu00g0105958.0.1			X	9			Similar to RNA polymerase II subunit A C-terminal domain phosphatase 5NpXX
ostnu00g0105982.0.1			X	9		Low	Neuralized-like protein 2 5NOC3
ostnu00g0105984.0.1	X			9			Function unknown 5NocX
ostnu00g0105993.0.2			X	9			Sorting nexin-2-like protein 5NpXX

ostnu00g0106077.0.1			X	9			CCR4-NOT transcription complex subunit 11-like protein 5NOC3
ostnu00g0108956.0.1		X		9			Splicing factor
ostnu00g0108957.0.1			X	9			Transcriptional regulator ATRX homolog isoform X2 XXpXX
ostnu00g0108982.0.1	X			9			Trimeric intracellular cation channel type B-like protein 5NOC3
ostnu00g0108986.0.1			X	9			LysM and putative peptidoglycan-binding domain-containing protein 3-like isoform X1 5NOC3
ostnu00g0109032.0.2			X	9			Retinoblastoma-like protein 2-like isoform X2 5NpXX
ostnu00g0111508.0.1			X	9		Top	Similar to Phosphorylated adaptor for RNA export 5NOC3
ostnu00g0111513.0.7		X		9		Top	Zinc finger protein 608-like protein XXpXX
ostnu00g0116040.0.2			X	9			Ran binding protein-like
ostnu00g0122711.0.2		X		9		Low	Function unknown XXXXX
ostnu00g0122720.0.1	X			9			Zinc finger protein 5NOC3
ostnu00g0122723.0.2	X			9			Putative peptidylprolyl isomerase domain and WD

							repeat containing 1 isoform 1 5NpXX
ostnu00g0122733.0.1		X		9			Glycolipid transfer protein domain-containing protein 1-like protein 5NoC3
ostnu00g0122746.0.1			X	9			Function unknown XXXXX
ostnu00g0122756.0.1			X	9			Function unknown XnoC3
ostnu00g0122759.0.1			X	9			Function unknown XXXXX
ostnu00g0122771.0.6		X		9		Low	NF-kappa-B essential modulator-like isoform X2 5NpXX
ostnu00g0124903.0.1			X	9			Function unknown XXXXX
ostnu00g0101797.0.1			X	10			Function unknown XXXXX
ostnu00g0102166.0.1			X	10		Low	RRNA-processing protein EBP2 homolog 5NOC3
ostnu00g0112370.0.1		X		10			Function unknown XXXXX
ostnu00g0112673.0.1		X		10		Top	Putative polypyrimidine tract binding protein 5NOC3
ostnu00g0117454.0.3			X	10		Low	Phospholipid-transporting ATPase IA-like protein XnoC3
ostnu00g0119785.0.1			X	10			Apoptosis inhibitor 5-like protein 5NOC3
ostnu00g0119820.0.1		X		10		Top	Transcriptional enhancer factor TEF-1-like isoform 2 5NOC3

ostnu00g0119846.0.1			X	10			Similar to High mobility group protein DSP1 (orsal switch 1) 5NOC3
ostnu00g0127247.0.1		X		10			Function unknown XXXXX
ostnu00g0128453.0.1			X	10			Sulfatase modifying factor 1 (Sumf1)
ostnu00g0128467.0.1		X		10		Low	Gonadal protein gdl-like protein XXpXX
ostnu00g0128592.0.4			X	10		Top	Function unknown XXXXX
ostnu00g0128978.0.1			X	10			Function unknown 5NOC3
ostnu00g0129839.0.1		X		10		Top	Flocculation protein FLO11-like protein 5NOC3
ostnu00g0130665.0.1			X	10			Vacuolar protein-sorting-associated protein 36-like protein 5NOC3
ostnu00g0130675.0.1		X		10			Function unknown XXXXX
ostnu00g0131335.0.2			X	10		Low	Charged multivesicular body protein 5NOC3
ostnu00g0108409.0.1			X	11			Methyltransferase-like protein 20-like protein XNOC3
ostnu00g0115460.0.4		X		11			EGF-like domain-containing protein XXXXX
ostnu00g0122624.0.3			X	11			Protein GCP60-like protein 5NOC3

ostnu00g0122627.0.6			X	11		Top	SET domain-containing protein 5NOC3
ostnu00g0108020.0.1	X			12		Low	Dachshund homolog 1-like protein XXpXX
ostnu00g0108066.0.1	X			12		Top	Dachshund XnoC3
ostnu00g0129727.0.1	X			12			Function unknown 5NpXX
ostnu00g0130619.0.2			X	12		Low	Breast cancer 1
ostnu00g0104403.0.1			X	13			Deoxyhypusine synthase XXpXX
ostnu00g0107647.0.1		X		13			A Chain A
ostnu00g0103268.0.1	X			14			Function unknown 5NOC3
ostnu00g0107310.0.1			X	14			Hydroxyacylglutathione hydrolase
ostnu00g0107335.0.1		X		14		Top	Regulator of G-protein signaling
ostnu00g0107337.0.1			X	14			Nucleolar protein 12-like protein 5NOC3
ostnu00g0107374.0.1			X	14			Unconventional myosin class XV
ostnu00g0107392.0.1			X	14		Low	Aconitase/3-isopropylmalate dehydratase large subunit
ostnu00g0107394.0.1			X	14			Function unknown XXXXX
ostnu00g0107400.0.1		X	X	14			DNA-directed RNA polymerase III subunit RPC5-like protein 5NpXX

ostnu00g0112779.0.2			X	14			Serine hydroxymethyltransferase
ostnu00g0112781.0.1		X		14			CDP-diacylglycerol-glycerol-3-phosphate 3-phosphatidyltransferase 5NpXX
ostnu00g0112789.0.2		X		14			Function unknown 5NOC3
ostnu00g0113507.0.2	X			14			Similar to oxidase/peroxidase XXpXX
ostnu00g0113513.0.1			X	14			U6 snRNA-associated Sm-like protein LSm5-like protein 5NoC3
ostnu00g0113543.0.1		X		14		Low	Sodium-independent sulfate anion transporter-like protein XXpXX
ostnu00g0114315.0.10			X	14			Acylamino-acid-releasing enzyme-like isoform X2 5NOC3
ostnu00g0114607.0.2			X	14			Transmembrane channel-like protein 3-like protein XXpXX
ostnu00g0116362.0.3	X			14			Keratin
ostnu00g0124393.0.1			X	14			Solute carrier family 25 member 38-like isoform X2 5NOC3
ostnu00g0109376.0.1			X	15		Top	Function unknown 5NOC3

ostnu00g0109396.0.3		X		15			Chiffon
ostnu00g0109400.0.4		X		15			Transformer 2 isoform D 5NOC3
ostnu00g0109404.0.1		X		15			Function unknown XXXXX
ostnu00g0111088.0.1		X		15		Low	Ragulator complex protein LAMTOR4 homolog isoform X2 5NoC3
ostnu00g0113188.0.1			X	15			SUZ domain-containing protein 1-like protein 5NOC3
ostnu00g0120854.0.2		X		15			Transmembrane protein 120 homolog 5NOC3
ostnu00g0131475.0.1			X	15			4-hydroxyphenylpyruvate dioxygenase-like protein 5NOC3
ostnu00g0104906.0.4			X	16			Phosphatidylinositol-4-phosphate 5-kinase type-2 alpha 5NOC3
ostnu00g0104910.0.1	X			16			Similar to tumor necrosis factor induced protein XnoC3
ostnu00g0105357.0.1			X	16			Function unknown 5NpXX
ostnu00g0112533.0.1			X	16		Low	Pre-mRNA-splicing factor RBM22-like protein XXpXX
ostnu00g0120179.0.6			X	16			Laminin G

ostnu00g0124421.0.3		X		16		Low	Unc-13
ostnu00g0124424.0.2			X	16		Low	Phorbol ester/diacylglycerol-binding protein unc-13 XXpXX
ostnu00g0126029.0.1	X			16			Ral GTPase-activating protein subunit beta-like isoform 2 XXpXX
ostnu00g0126065.0.4	X			16			Arrestin domain-containing protein 1-like protein 5NpXX
ostnu00g0126100.0.1		X		16		Low	Metaxin-1-like protein 5NOC3
ostnu00g0108085.0.3		X		17		Top	Calcium-dependent secretion activator-like isoform X1 5NpXX
ostnu00g0108088.0.4	X			17		Low	Similar to LIM domain protein XXpXX
ostnu00g0110942.0.2			X	17			Dual serine/threonine and tyrosine protein kinase-like protein 5NpXX
ostnu00g0110956.0.1			X	17			Function unknown XXXXX
ostnu00g0111051.0.1	X			17			Protein MON2 homolog isoformX1 5NpXX
ostnu00g0118416.0.1		X		17			Transcriptional activator cubitus interruptus 5NpXX

ostnu00g0123145.0.3			X	17		Low	Rho GTPase-activating protein 190-like isoform 1 5NpXX
ostnu00g0123146.0.8			X	17		Low	Mucin-17-like protein XXpXX
ostnu00g0123165.0.2		X		17		Top	Protein pangolin
ostnu00g0110833.0.1			X	18			Kinesin protein 1B XXpXX
ostnu00g0111709.0.1	X			18			Integrase/recombinase
ostnu00g0131404.0.1		X		18			Putative RNA exonuclease NEF-sp-like protein XXpXX
ostnu00g0101336.0.1			X	19			Zinc finger HIT domain-containing protein 2-like protein XXpXX
ostnu00g0119699.0.1		X		19			Function unknown XXpXX
ostnu00g0119765.0.1			X	19			Cell division control protein 45 homolog XXpXX
ostnu00g0123516.0.2			X	19			Function unknown XXpXX
ostnu00g0127789.0.1	X			19			Similar to Ubiquitin ligase sina (Seven in absentia protein) XXpC3
ostnu00g0127802.0.1		X		19		Low	Squamous cell carcinoma antigen recognized by T-cells 3-like protein 5NoC3
ostnu00g0127814.0.1		X		19		Top	Uncharacterized protein C4orf29 homolog XXpXX

ostnu00g0127827.0.2	X			19		Top	Trichohyalin-like protein 5NOC3
ostnu00g0104046.0.2		X		20		Top	Fibroin heavy chain-like protein 5NOC3
ostnu00g0104048.0.1	X			20		Low	Function unknown XXpXX
ostnu00g0104054.0.3	X			20			Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase-like protein XXpXX
ostnu00g0104059.0.1	X			20		Low	Protein phosphatase 1E-like protein XXpXX
ostnu00g0104065.0.1	X			20		Low	3-oxoacyl- synthase 5NoC3
ostnu00g0104074.0.1	X			20		Low	Methyltransferase-like protein 5-like protein XXpXX
ostnu00g0104090.0.1	X			20		Low	Gametogenetin-binding protein 2-like protein 5NpXX
ostnu00g0104204.0.1	X			20		Top	Muscle M-line assembly protein unc-89-like protein XXpXX
ostnu00g0104205.0.1			X	20			Mitochondrial tRNA-specific 2-thiouridylase 1-like protein 5NpXX
ostnu00g0104210.0.1			X	20		Top	SAM domain (Sterile alpha motif) 5NocX

ostnu00g0105259.0.2		X		20		Top	Protein kinase C-like
ostnu00g0107893.0.1	X			20			Function unknown XXXXX
ostnu00g0107926.0.1	X			20			Leucine-rich repeat flightless-interacting protein 2-like protein XXpXX
ostnu00g0107931.0.1	X		X	20		Top	RING finger protein 157-like protein 5NpXX
ostnu00g0107942.0.1	X			20			Josephin-like protein-like protein 5NpXX
ostnu00g0107949.0.1	X			20			DNA polymerase eta XXpXX
ostnu00g0109450.0.1			X	20			Function unknown XXXXX
ostnu00g0109452.0.3			X	20		Low	Similar to dab2-interacting protein XXpC3
ostnu00g0109457.0.1			X	20		Low	Leucine-rich repeat-containing protein C10orf11 homolog isoform X1 XXpXX
ostnu00g0110821.0.1		X		20		Top	Function unknown 5NpXX
ostnu00g0111361.0.1			X	20		Low	Alkylglycerol monooxygenase-like protein 5NOC3
ostnu00g0112084.0.1		X		20		Top	Transmembrane protein 132B-like protein 5NpXX

ostnu00g0112085.0.1		X		20		Low	BMP-binding endothelial regulator protein-like protein 5NOC3
ostnu00g0113692.0.2		X		20		Low	Function unknown 5NOC3
ostnu00g0117961.0.1			X	20		Low	TRNA-splicing ligase RtcB homolog 5NOC3
ostnu00g0119602.0.1			X	20			Protein NipSnap 5NOC3
ostnu00g0119609.0.2			X	20			SET domain containing (lysine methyltransferase) 8-like protein XXpXX
ostnu00g0119929.0.1			X	20			Function unknown XXXXX
ostnu00g0122660.0.1			X	20		Top	Myb-like protein X-like protein 5NOC3
ostnu00g0122670.0.5			X	20		Top	Disheveled-associated activator of morphogenesis 1-like protein XnoC3
ostnu00g0124046.0.1			X	20			CDC5 cell division cycle 5-like protein 5NpXX
ostnu00g0124180.0.1			X	20			Function unknown XXpXX
ostnu00g0124210.0.1	X			20			Tetratricopeptide repeat protein 21B-like protein XXpXX
ostnu00g0124211.0.3			X	20			Function unknown 5NOC3
ostnu00g0124629.0.1			X	20			Anaphase-promoting complex subunit 1-like
ostnu00g0124666.0.1		X		20		Top	Function unknown XXXXX

ostnu00g0127496.0.2			X	20			Function unknown XXXXX
ostnu00g0127500.0.1			X	20			Function unknown 5NpXX
ostnu00g0127506.0.1			X	20			Protein ETHE1
ostnu00g0130253.0.2			X	20			Desert hedgehog protein B XnoC3
ostnu00g0130254.0.2			X	20			Max-like protein X-like isoform X2 5NOC3
ostnu00g0130259.0.1			X	20			Signal recognition particle 19 kDa protein 5NOC3
ostnu00g0131170.0.3		X		20		Low	RNA-binding protein Musashi homolog Rbp6-like protein XnoC3
ostnu00g0131173.0.1		X		20			Obg-like ATPase 1 5NOC3
ostnu00g0109085.0.1			X	21			TRNA-splicing endonuclease subunit Sen2-like protein 5NpXX
ostnu00g0110226.0.1			X	21			Function unknown XXpXX
ostnu00g0115934.0.1			X	21			Protein CIP2A-like protein 5NpXX
ostnu00g0116621.0.1	X			21			Neuropilin and tolloid-like protein 2 XXpXX
ostnu00g0127289.0.1			X	21			Neuropeptide receptor A34 5NOC3
ostnu00g0127310.0.3			X	21		Low	Phosphatidylinositol-3

ostnu00g0127347.0.1			X	21			G patch domain and ankyrin repeat-containing protein 1 homolog XXpXX
ostnu00g0127366.0.2			X	21			TAK1-associated binding protein 2 isoform A 5NOC3
ostnu00g0104923.0.9			X	22			Ensconsin
ostnu00g0118228.0.1	X			22		Top	Function unknown 5NOC3
ostnu00g0118231.0.2	X			22			Palmitoyltransferase ZDHHC23-like protein XXpXX
ostnu00g0122808.0.1	X			22			Function unknown XXXXX
ostnu00g0125729.0.1			X	22			Function unknown 5NpXX
ostnu00g0129525.0.2		X		22		Low	Branched-chain-amino-acid aminotransferase 5NOC3
ostnu00g0129532.0.1		X		22		Low	Protein lava lamp-like protein 5NOC3
ostnu00g0129535.0.1		X		22		Top	Cyclin
ostnu00g0129537.0.2			X	22			Guanine nucleotide exchange factor synembryn 5NOC3
ostnu00g0130172.0.1			X	22			Function unknown XXXXX
ostnu00g0100517.0.1			X	23			Nucleoporin nup211-like isoform X1 XXpXX
ostnu00g0101091.0.5		X		23			Myosin heavy chain 95F-like protein XXpXX

ostnu00g0118805.0.1		X		23			RNA-directed RNA polymerase catalytic XXXXX
ostnu00g0102441.0.3			X	24			Function unknown 5NpXX
ostnu00g0103593.0.1	X			24			Fasciclin-1 5NOC3
ostnu00g0103595.0.3			X	24			Tubulin-specific chaperone D-like protein 5NOC3
ostnu00g0103743.0.1			X	24			Function unknown XXpXX
ostnu00g0108706.0.1			X	24			Transmembrane protein 147-like protein 5NOC3
ostnu00g0108723.0.2			X	24			Ubiquitin thioesterase otubain-like protein 5NOC3
ostnu00g0110176.0.1			X	24			Function unknown XXXXX
ostnu00g0114206.0.4			X	24			Zinc finger CCCH domain-containing protein 14-like protein XXpXX
ostnu00g0115651.0.3			X	24			Ubiquilin-1-like isoform X2 XXpXX
ostnu00g0103296.0.2			X	25			N-methyltransferase-like protein XXpXX
ostnu00g0103325.0.1			X	25			Helicase POLQ-like protein XnoC3
ostnu00g0115679.0.1		X		25			Trimethyllysine dioxygenase
ostnu00g0116546.0.1			X	25			Mitochondrial ribosomal protein L12 5NOC3

ostnu00g0117828.0.1			X	25		Low	Sterol regulatory element-binding protein 1-like isoform X1 XXpXX
ostnu00g0123214.0.1			X	25			IAP-binding motif 1 5NOC3
ostnu00g0106037.0.1			X	26			Function unknown XXpXX
ostnu00g0110419.0.3			X	26			Function unknown XXXXX
ostnu00g0111555.0.1			X	26			Isoform H of Myosin heavy chain 95F XXpXX
ostnu00g0117264.0.2			X	26			Neurexin-4-like isoform X1 XXpXX
ostnu00g0120399.0.2			X	26			Function unknown XXpXX
ostnu00g0126287.0.1			X	26		Low	Function unknown XXpXX
ostnu00g0103130.0.1			X	27			MRG/MORF4L-binding protein-like isoform X2 5NOC3
ostnu00g0106405.0.3	X			27		Top	Putative fibrillin 2 5NocX
ostnu00g0108780.0.1			X	27		Top	Function unknown 5NOC3
ostnu00g0113143.0.1			X	27			Function unknown XXXXX
ostnu00g0113498.0.1			X	27			Function unknown 5NoC3
ostnu00g0114024.0.2			X	27			Similar to putative glycerol kinase XnocX
ostnu00g0114025.0.1			X	27			Ryanodine receptor XXpXX
ostnu00g0101964.0.4			X	28			Nucleolar GTP-binding protein 1 XnoC3

ostnu00g0113820.0.2			X	28			Bromodomain adjacent to zinc finger domain protein 2B-like protein XXpXX
ostnu00g0121568.0.2			X	28			Function unknown XnoC3
ostnu00g0113750.0.1		X		29			Mediator of RNA polymerase II transcription subunit 14-like protein XXpXX
ostnu00g0113755.0.1		X		29			Function unknown XXpXX
ostnu00g0113756.0.2			X	29			Beta-catenin-like protein 1-like protein 5NOC3
ostnu00g0117119.0.1			X	29			U4/U6 small nuclear ribonucleoprotein Prp3-like isoform X1 XXpXX
ostnu00g0117551.0.1		X		29			Glucosamine-fructose-6-phosphate aminotransferase
ostnu00g0117560.0.5			X	29			E3 ubiquitin-protein ligase hyd-like isoform 2 XXpXX
ostnu00g0117568.0.1			X	29		Top	Poly(ADP-ribose) glycohydrolase 1-like isoform 1 5NOC3
ostnu00g0124484.0.1			X	29		Top	Similar to sporozoite surface protein 5NpXX
ostnu00g0125049.0.1			X	29			Function unknown 5NpXX
ostnu00g0116303.0.1		X		31		Top	Putative histidine triad protein member XXpXX

ostnu00g0116312.0.1			X	31			Serine/threonine-protein kinase kinX-like protein 5NOC3
ostnu00g0100125.0.1	X			UN		Low	Myosin regulatory light chain LC-2
ostnu00g0100143.0.1		X		UN			Pre-mRNA-splicing factor 18-like protein XXpXX
ostnu00g0100170.0.1		X		UN			WD repeat domain
ostnu00g0100187.0.1			X	UN			Function unknown XXXXX
ostnu00g0100375.0.1			X	UN			Function unknown 5NpXX
ostnu00g0100538.0.1		X		UN			Transcription initiation factor TFIID subunit 4-like protein XXpXX
ostnu00g0100945.0.1			X	UN			Function unknown XXXXX
ostnu00g0100949.0.1			X	UN			Function unknown XXXXX
ostnu00g0101143.0.2		X		UN		Low	DNA topoisomerase I
ostnu00g0101144.0.1		X		UN		Low	MRNA cap guanine-N7 methyltransferase 5NOC3
ostnu00g0101146.0.6		X		UN		Low	Ral guanine nucleotide dissociation stimulator-like isoform X1 5NOC3
ostnu00g0101165.0.1			X	UN			Cyclin B-like protein 5NOC3
ostnu00g0101175.0.2			X	UN			Function unknown 5NpXX
ostnu00g0101283.0.2			X	UN		Top	PFTAIRE-interacting factor 1A 5NpXX

ostnu00g0101439.0.1			X	UN			Function unknown XXXXX
ostnu00g0101523.0.3			X	UN			Function unknown XXXXX
ostnu00g0101563.0.2			X	UN			Seryl-tRNA synthetase
ostnu00g0101883.0.1			X	UN			Putative Zinc finger protein 294 XXpXX
ostnu00g0102130.0.1			X	UN			Nuclear pore membrane glycoprotein 210-like protein XXpXX
ostnu00g0102420.0.2			X	UN			ABC transporter G family member 20-like protein XnoC3
ostnu00g0102560.0.1			X	UN			DNA repair protein RAD50 5NOC3
ostnu00g0102653.0.1		X		UN			Function unknown XXpXX
ostnu00g0102912.0.1		X		UN			WD domain
ostnu00g0102919.0.1			X	UN			Non-LTR retrotransposon R1Bmks ORF2 protein XXpXX
ostnu00g0103069.0.1			X	UN			Negative regulator of ubiquitin-like proteins 1 5NpXX
ostnu00g0103115.0.1		X		UN			Function unknown XXXXX
ostnu00g0103153.0.1			X	UN			Integrator complex subunit 1-like protein XXpXX

ostnu00g0103579.0.2	X			UN		Top	Gata-binding factor-c (transcription factor gata-c) 5NOC3
ostnu00g0103672.0.2			X	UN			Zinc finger
ostnu00g0103674.0.1			X	UN			Function unknown XXXXX
ostnu00g0104336.0.2			X	UN			Inositol hexakisphosphate kinase 2-like isoform X3 XXpXX
ostnu00g0104347.0.1			X	UN			Sec1 family domain-containing protein 2-like protein XXpXX
ostnu00g0104852.0.5		X		UN			Actin-binding LIM protein 1 XXpXX
ostnu00g0105315.0.2			X	UN			Flavin-dependent monooxygenase FMO2A 5NOC3
ostnu00g0105473.0.1			X	UN			Function unknown XXpXX
ostnu00g0105757.0.1		X		UN			Function unknown XXXXX
ostnu00g0105903.0.1		X		UN			Protein VAC14 homolog XXpXX
ostnu00g0105915.0.1		X		UN			E3 ubiquitin-protein ligase AMFR-like protein XXpC3
ostnu00g0105932.0.1			X	UN			Trafficking protein particle complex subunit 11-like protein 5NOC3

ostnu00g0106123.0.1	X			UN			Inhibitor of growth protein 3-like protein 5NOC3
ostnu00g0106165.0.1		X		UN			Phd finger transcription factor XXpXX
ostnu00g0107305.0.1			X	UN			Kinase D-interacting substrate of 220 kDa-like protein XXpXX
ostnu00g0107711.0.1	X			UN			Protein sickie-like protein XXpXX
ostnu00g0108114.0.1		X		UN			Function unknown XXXXX
ostnu00g0108116.0.1		X		UN			Cation-transporting ATPase 13A3-like protein XXXXX
ostnu00g0108349.0.1			X	UN			Rab GDP dissociation inhibitor alpha-like protein 5NOC3
ostnu00g0108667.0.1			X	UN		Low	Translocation protein SEC63 homolog isoform X2 XXpXX
ostnu00g0108877.0.1		X		UN			Similar to golgi phosphoprotein 3 (coat-protein GPP34) 5NOC3
ostnu00g0108881.0.1			X	UN			Putative F-box only protein XXpXX
ostnu00g0108904.0.3			X	UN			Phosphofructokinase 5NpXX

ostnu00g0109178.0.1			X	UN			Dual specificity protein phosphatase CDC14A-like protein XnoC3
ostnu00g0109184.0.1			X	UN			Cation-transporting ATPase 13A3-like protein XXpC3
ostnu00g0109210.0.2			X	UN		Low	Catenin delta-2-like protein 5NpXX
ostnu00g0109289.0.1			X	UN		Low	Lipase 5NpXX
ostnu00g0109306.0.1		X		UN		Low	Function unknown XXXXX
ostnu00g0109307.0.2			X	UN		Low	60S ribosomal protein L3-like protein 5NOC3
ostnu00g0109747.0.2			X	UN			Cullin
ostnu00g0109991.0.1			X	UN			Adapter molecule Crk 5NpXX
ostnu00g0109994.0.1			X	UN			Function unknown XnpXX
ostnu00g0110350.0.2			X	UN			Ubiquitin carboxyl-terminal hydrolase 32-like
ostnu00g0110777.0.1			X	UN			Acetyl-coenzyme A transporter 1-like isoform X2 5NOC3
ostnu00g0110921.0.1			X	UN			Conserved oligomeric Golgi complex subunit 7-like protein 5NpXX
ostnu00g0111125.0.1		X		UN		Low	Function unknown XXXXX
ostnu00g0111233.0.1			X	UN			Kinesin-like protein KIF3A-like protein 5NpXX

ostnu00g0111532.0.1			X	UN			Fibronectin type III domain protein XXXXX
ostnu00g0111630.0.2		X		UN			Bm8 interacting protein 2-11 XXpXX
ostnu00g0111672.0.1			X	UN			Transcriptional protein SWT1-like protein XXpXX
ostnu00g0112038.0.1	X			UN		Low	Fad oxidoreductase 5NOC3
ostnu00g0112052.0.1		X		UN		Low	Ecdysteroid kinase XXXXX
ostnu00g0112062.0.1			X	UN			Function unknown 5NpXX
ostnu00g0112074.0.1		X		UN			Function unknown XXXXX
ostnu00g0112247.0.1			X	UN			Function unknown XXpXX
ostnu00g0112739.0.1			X	UN			Upstream activation factor subunit spp27-like protein 5NOC3
ostnu00g0113355.0.1			X	UN			Unknown unsecreted protein 5NOC3
ostnu00g0113602.0.1			X	UN			Prip interacting protein
ostnu00g0113626.0.5			X	UN			STE20-like serine/threonine-protein kinase-like protein XXpXX
ostnu00g0113877.0.1		X		UN			Function unknown XXXXX
ostnu00g0113988.0.1			X	UN			ZZ-type zinc finger-containing protein 3-like protein 5NOC3
ostnu00g0114075.0.1			X	UN			Torso-like protein-like protein XXpXX

ostnu00g0114082.0.1	X			UN			Function unknown XXXXX
ostnu00g0114137.0.1			X	UN			RNA-binding protein 40-like protein XXpXX
ostnu00g0114144.0.1			X	UN			Ribosomal RNA processing 7 homolog A (S. cerevisiae) 5NOC3
ostnu00g0114495.0.1			X	UN			Zinc finger
ostnu00g0115289.0.1		X		UN		Top	Homeobox protein cut-like protein 5NpXX
ostnu00g0115353.0.1			X	UN			Strabismus/van gogh-like protein 5NocX
ostnu00g0115379.0.1			X	UN			Function unknown XnoC3
ostnu00g0115506.0.1			X	UN			Proteasome activator complex subunit 4-like protein XXpXX
ostnu00g0115601.0.1			X	UN			Function unknown XXXXX
ostnu00g0115982.0.1		X		UN		Top	Protein AATF-like protein 5NocX
ostnu00g0116245.0.1			X	UN			Function unknown XXpXX
ostnu00g0116592.0.2			X	UN			Max binding protein
ostnu00g0116630.0.1			X	UN			Function unknown XXpXX
ostnu00g0116632.0.1			X	UN			Uncharacterized protein K02A2.6-like protein XXpXX
ostnu00g0117147.0.1			X	UN			Polyribonucleotide nucleotidyltransferase 1

ostnu00g0117305.0.1			X	UN			Function unknown 5NpXX
ostnu00g0117313.0.5			X	UN		Low	Function unknown 5NocX
ostnu00g0117334.0.1			X	UN			Integral membrane protein
ostnu00g0117340.0.1			X	UN			Nucleoporin NDC1-like protein XXpXX
ostnu00g0117853.0.3			X	UN			Function unknown XXXXX
ostnu00g0118421.0.1			X	UN			Function unknown XXXXX
ostnu00g0118427.0.1			X	UN			Zinc finger
ostnu00g0118435.0.1			X	UN		Low	Biogenesis of lysosome-related organelles complex 1 subunit 1-like protein XXpXX
ostnu00g0118445.0.1		X		UN		Top	DNA-directed RNA polymerase II 16 kDa polypeptide-like isoform X2 5NOC3
ostnu00g0118464.0.2	X			UN		Low	Protein suppressor of sable-like protein 5NOC3
ostnu00g0118471.0.1		X		UN		Top	Protein FAM117B-like protein 5NOC3
ostnu00g0118474.0.1			X	UN			HEAT repeat containing 6-like protein 5NoC3
ostnu00g0118493.0.3			X	UN			Tau-tubulin kinase 1-like protein XXpXX
ostnu00g0118615.0.1			X	UN			Formin-binding protein 4-like protein XXpXX

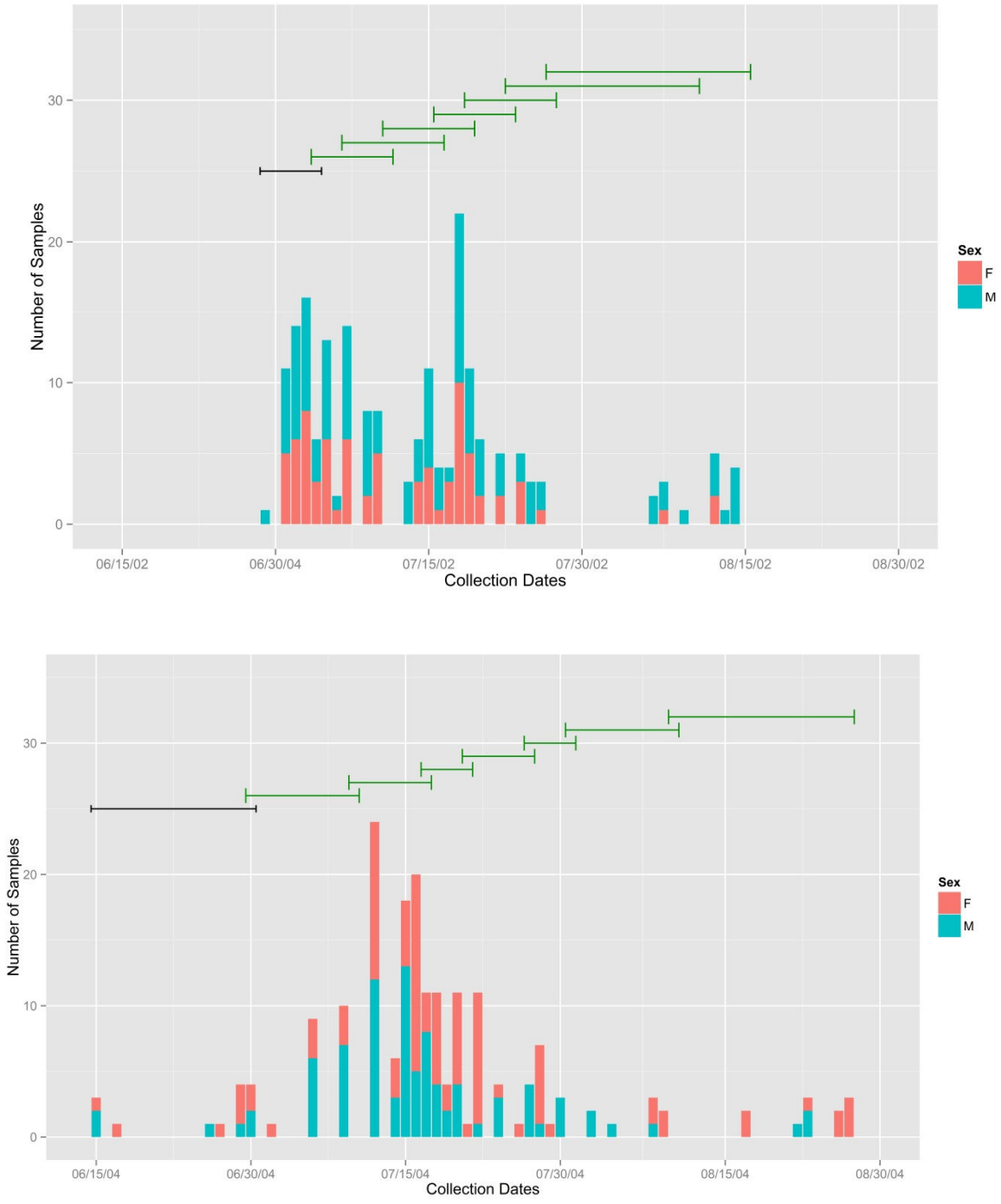
ostnu00g0119049.0.1	X			UN		Top	Similar to failed axon connections protein 5NOC3
ostnu00g0119138.0.3		X		UN			Mucin-5AC-like protein 5NpXX
ostnu00g0120117.0.1			X	UN			Protein aveugle-like protein 5NOC3
ostnu00g0120131.0.1			X	UN			Insulin receptor substrate 1-like isoform 1 5NpXX
ostnu00g0121077.0.1			X	UN			Protein singed-like protein XnoCX
ostnu00g0121081.0.1			X	UN			Function unknown XXXXX
ostnu00g0121904.0.1			X	UN			Function unknown 5NOC3
ostnu00g0121914.0.1			X	UN		Low	Function unknown XXXXX
ostnu00g0121931.0.1			X	UN			Protein pecanex-like protein XnoC3
ostnu00g0121958.0.1		X		UN			Protein son of sevenless-like protein 5NpXX
ostnu00g0122884.0.1			X	UN		Top	Alkylated DNA repair protein alkB homolog 8-like protein 5NOCX
ostnu00g0122885.0.1			X	UN			Nitric oxide synthase-interacting protein homolog 5NOC3
ostnu00g0122888.0.1			X	UN		Low	N-acetylglucosaminyl-phosphatidylinositol

							biosynthetic protein-like protein 5NOC3
ostnu00g0123014.0.1			X	UN			CCAAT/enhancer-binding protein gamma-like protein 5NOC3
ostnu00g0123031.0.1			X	UN		Low	Protein FAM116A-like protein 5NoC3
ostnu00g0123346.0.2			X	UN			BUD13 homolog 5NpXX
ostnu00g0123660.0.2		X		UN			Similar to ribose-phosphate pyrophosphokinase 1
ostnu00g0123771.0.1			X	UN			Candidate olfactory receptor XnoC3
ostnu00g0123793.0.1			X	UN			UV radiation resistance protein and autophagy-related subunit 14 XXpXX
ostnu00g0124457.0.1		X		UN		Low	Function unknown 5NOC3
ostnu00g0124512.0.1			X	UN			Transmembrane protein 8A-like protein 5NpXX
ostnu00g0124962.0.1			X	UN			D111/G-patch XXXXX
ostnu00g0125157.0.1			X	UN		Top	Protein furry-like protein XXpXX
ostnu00g0125353.0.2			X	UN			Adenylosuccinate synthetase XXpXX
ostnu00g0125435.0.1			X	UN		Low	Proteinase inhibitor I15

ostnu00g0125450.0.1		X		UN			Myb/SANT-like DNA-binding domain protein XXXXX
ostnu00g0125561.0.3			X	UN		Top	Muscle-specific protein 300 XXpXX
ostnu00g0125690.0.1			X	UN			Decaprenyl-diphosphate synthase subunit 2-like protein 5NpXX
ostnu00g0125823.0.1			X	UN			Integrator complex subunit 7-like protein XXpXX
ostnu00g0126589.0.1			X	UN			Function unknown XXXXX
ostnu00g0126710.0.1			X	UN			70 kDa peptidyl-prolyl isomerase-like protein 5NpXX
ostnu00g0126940.0.1			X	UN		Top	Mitogen-activated protein kinase 15-like isoform 1 5NpXX
ostnu00g0127001.0.1			X	UN			Similar to protease
ostnu00g0127065.0.1			X	UN			Function unknown XXXXX
ostnu00g0127439.0.3		X		UN			Ubiquitin conjugation factor E4 B-like protein 5NOC3
ostnu00g0127528.0.1			X	UN			Function unknown XXXXX
ostnu00g0127651.0.4			X	UN		Low	Adaptor protein Cbl
ostnu00g0127690.0.8			X	UN			Function unknown XXXXX
ostnu00g0127855.0.1	X			UN			Glucose-6-phosphate 1-epimerase-like

ostnu00g0127905.0.1			X	UN			U6 snRNA-associated Sm-like protein LSm3-like protein 5NOC3
ostnu00g0127922.0.4			X	UN		Low	C-myc promoter-binding protein-like protein XXpXX
ostnu00g0127957.0.1		X		UN			Chemosensory protein 16 XnoC3
ostnu00g0127964.0.1			X	UN		Low	Function unknown 5NOC3
ostnu00g0127997.0.1			X	UN		Low	F-box/LRR-repeat protein 13-like protein 5NOC3
ostnu00g0128100.0.2		X		UN		Top	SAM domain (Sterile alpha motif) XnoC3
ostnu00g0128125.0.1			X	UN			Function unknown XXpC3
ostnu00g0128428.0.1			X	UN			Putative RNA-binding protein Luc7-like 2-like isoform X1 5NpXX
ostnu00g0128692.0.1	X			UN		Top	WD repeat-containing protein 47-like protein 5NpXX
ostnu00g0128868.0.1		X		UN			Function unknown XXXXX
ostnu00g0128927.0.1			X	UN			Vesicle transport through interaction with t-SNAREs homolog 1A-like protein 5NOC3
ostnu00g0129190.0.2			X	UN			Xenotropic and polytropic retrovirus receptor 1

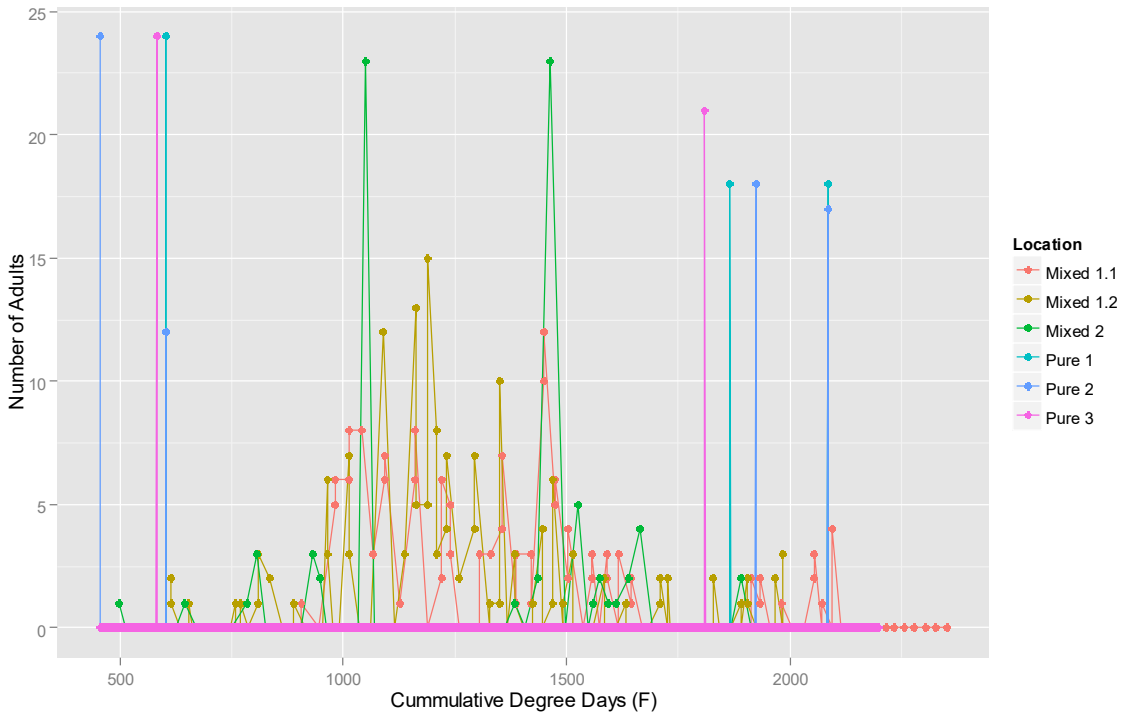
							(protein syg1 homolog)(murine leukemia virus receptor x3) 5NpXX
ostnu00g0129194.0.1		X		UN			Function unknown XXXXX
ostnu00g0129427.0.1			X	UN			Fatty-acid amide hydrolase 2-like protein XXXXX
ostnu00g0129462.0.1		X		UN			Hexamerin 2 XXpCX
ostnu00g0129611.0.1			X	UN			FK506 binding protein 15
ostnu00g0129621.0.1		X		UN		Top	Putative GTP-binding protein Parf-like protein XXpXX
ostnu00g0129941.0.1			X	UN			Function unknown 5NOC3
ostnu00g0129948.0.1			X	UN		Low	Phosphatidylinositol synthase 5NOC3
ostnu00g0130330.0.1			X	UN			RPEL repeat protein XXpXX
ostnu00g0131093.0.1			X	UN		Top	L-2-hydroxyglutarate dehydrogenase
ostnu00g0131163.0.2			X	UN			SRR1-like protein XXpXX
ostnu00g0131246.0.1		X		UN		Top	Function unknown 5NpXX
ostnu00g0131263.0.5			X	UN		Low	Ankyrin repeat and sterile alpha motif domain-containing protein 1B 5NOC3



Supplementary Figure 4.1. Top: Mixed 1.1 sample distributions through the season. Bottom: Mixed 1.2 sample distributions through the season. Sliding windows used in analysis shown above, in black fixed initial window and in green the subsequent ones.

Supplementary Table 4.1: Airport weather stations used to retrieve temperature data (from wunderground.com).

Airport Weather Station	Latitude	Longitude	Distance from Collection Site (Km)	Site
Tracy Municipal Airport	44.24959	-95.61114	30	Mixed 1
Slayton Municipal Airport	43.99031	-95.78486	24	Mixed 2
Clarion Municipal Airport	42.74035	-93.75916	12	Pure 1
Webster Municipal Airport	42.43412	-93.86979	25	Pure 2
Des Moines International Airport	41.5239	-93.66331	21	Pure 3



Supplementary Figure 4.2. Sample distribution by cumulative degree days for all sites.

Supplementary Table 4.2: Geographical and temporal information of First and Second Flights for all localities.

Population	Year of Collection	State	Latitude	Generations	First Flight					Second Flight				
					Starting Date	Degree Days (from Jan-Starting Date) (F)	End Date	Degree Days (from Jan-End Date) (F)	Number of Samples	Starting Date	Degree Days (from Jan-Starting Date) (F)	End Date	Degree Days (from Jan-End Date) (F)	Number of Samples
Mixed 1.1	2002	MN	44.234	1 to 2	6/29/2002	905.4	7/3/2002	1042.2	23	7/16/2002	1386.9	8/5/2002	1895.4	35
Mixed 1.2	2004	MN	44.234	1 to 2	6/15/2004	614.7	7/11/2004	1035.9	19	7/24/2004	1384.2	8/22/2004	1889.1	16
Mixed 2	2004	MN	43.866	1 to 2	6/9/2004	497.7	7/6/2004	1048.5	25	7/19/2004	1382.4	8/9/2004	1890.9	29
Pure 1	2006	IA	43.119	2	6/1/2006	603.0	6/1/2006	603.0	24	7/26/2006	1036.5	8/2/2006	2084.4	24
Pure 2	2006	IA	42.388	2	5/26/2006	450.9	5/26/2006	450.9	24	7/28/2006	1068.0	8/2/2006	2084.4	23
Pure 3	2006	IA	40.912	2	5/31/2006	581.4	5/31/2006	581.4	24	7/24/2006	1005.0	8/1/2006	2056.5	24

Supplementary Table 4.3: Loci rejecting Hardy Weinberg Equilibrium per site and flight

Loci	FDR Corrected p-value	Site	Flight
contig01121.299.299	0.046758	Mixed1.1.1	1st
contig07095.161.161	0.046758	Mixed1.1.1	1st
amy_B	0.000679	Mixed1.1.2	2nd
contig00079.361.361	0.005247	Mixed1.1.2	2nd
contig00902.478.478	0.021686	Mixed1.1.2	2nd
contig01121.299.299	0.005856	Mixed1.1.2	2nd
contig02021.295.295	0.00031	Mixed1.1.2	2nd
contig03868.249.249	0.012421	Mixed1.1.2	2nd
contig06411.755.755	0.021686	Mixed1.1.2	2nd
contig06758.292.292	0.021686	Mixed1.1.2	2nd
contig06900.362.362	0.001939	Mixed1.1.2	2nd
contig07095.161.161	0.000275	Mixed1.1.2	2nd
contig07095.237.237	0.021686	Mixed1.1.2	2nd
contig02021.295.295	0.003645	Mixed2.1	1st
contig06758.292.292	0.025356	Mixed2.1	1st
contig07095.161.161	0.003645	Mixed2.1	1st
contig02021.295.295	0.004376	Mixed2.2	2nd
contig06758.292.292	0.028186	Pure1.1	1st
contig01121.299.299	0.005775	Pure1.2	2nd
contig02021.295.295	0.005775	Pure1.2	2nd
contig05727.1106.1106	0.005775	Pure1.2	2nd
contig05909.680.680	0.005775	Pure1.2	2nd
contig06900.362.362	0.005775	Pure1.2	2nd
537_C	0.014036	Pure2.1	1st
contig00902.478.478	0.014036	Pure2.1	1st
contig01121.299.299	0.014036	Pure2.1	1st
contig07249.176.176	0.014036	Pure2.1	1st
contig05727.1106.1106	0.026969	Pure2.2	2nd
contig05909.680.680	0.022607	Pure2.2	2nd
contig01121.299.299	0.009683	Pure3.1	1st
contig05909.680.680	0.009683	Pure3.1	1st

Supplementary Table 4.4: Outlier Markers in Mixed sites with annotations based on *Danaus plexippus* genome.

Site	Marker	Annotation
Mixed 1.1	contig00699.345.345	anonymous
Mixed 1.1	contig02457.435.435	anonymous
Mixed 1.1	contig05821.289.289	Cellular retinaldehyde-binding protein
Mixed 1.1	contig06019.217.217	Glutathione S-transferase
Mixed 1.1	contig06024.408.408	ATPase inhibitor-like protein
Mixed 1.2	Shk_A	shaker
Mixed 1.2	contig00822.584.584	anonymous
Mixed 1.2	contig00902.478.478	anonymous
Mixed 1.2	contig01121.299.299	Adenylate cyclase
Mixed 1.2	contig01285.865.865	Putative endonuclease and reverse transcriptase-like protein
Mixed 1.2	contig03817.457.457	anonymous
Mixed 1.2	contig05310.442.442	anonymous
Mixed 1.2	contig05649.591.591	Mitochondrial processing peptidase beta subunit
Mixed 1.2	contig05979.160.160	anonymous
Mixed 1.2	contig05982.460.460	anonymous
Mixed 1.2	contig06435.492.492	C-type lectin
Mixed 1.2	contig07009.233.233	Putative cytochrome P450
Mixed 1.2	contig07334.424.424	Glutamate semialdehyde dehydrogenase
Mixed 1.2	contig07376.627.627	Odorant-binding protein
Mixed 2	contig00348.273.273	anonymous
Mixed 2	contig01285.865.865	Putative endonuclease and reverse transcriptase-like protein

Supplementary Table 4.5: Marker Annotations based on *Danaus plexippus* genome.

Marker	**Annotation**
12238_B	aldose-1-epimerase
12238_C	aldose-1-epimerase
12292_B	CG3431
12295_A	putative RAC GTPase
12360_A	KGM_03915
12360_C	KGM_03915
13318_A	bem46-like protein
2076_C	Set and mynd domain-containing protein
3855_C	KGM_18591
494_C	putative centrosomal protein 350kDa
563_A	tyrosine hydroxylase
563_C	tyrosine hydroxylase
622_A	kettin
622_C1	kettin
622_C2	kettin
680_C	glutamine synthetase
680_E	glutamine synthetase
683_A	putative parvin
683_B	putative parvin
710_A	putative VAMP-associated protein
acylB_A	acyl-coA dehydrogenase
amy_B	alpha amylase
chap_A	chaoptin-like
clk_A	clock
COI_A	cytochrome oxidase 1
cp146_B	CPR146 collagen
dap_B	diapause associated protein
eck22_A	ecdysteroid 22-kinase
EO_B	ecdysone oxidase
G_LDH_B	lactate dehydrogenase
HR3_B	hormone receptor 3
ldh_E	lactate dehydrogenase
mpi_B	mannose phosphate isomerase
per_A	period
Shk_A	shaker
Shk_B	shaker
shp_A	small heat shock protein

Z13_A	bestrophin
Z13_B	bestrophin
contig00034	ATP synthase subunit alpha
contig00034	V-type proton ATPase subunit B
contig00034	ATP synthase subunit beta
contig00034	V-type proton ATPase catalytic subunit A
contig00046	Uncharacterized protein
contig00048	ADP/ATP tranlocase
contig00048	Mitochondrial ADP/ATP carrier protein
contig00048	Uncharacterized protein
contig00048	Putative mitochondrial oxodicarboxylate carrier
contig00048	Putative mitochondrial solute carrier
contig00048	Putative mitochondrial 2-oxoglutarate/malate carrier protein
contig00048	Putative mitochondrial carrier protein
contig00048	Mitochondrial dicarboxylate carrier
contig00048	Putative mitochondrial brown fat uncoupling protein
contig00048	Mitochondrial carnitine/acylcarnitine translocase
contig00048	Putative tricarboxylate transport protein
contig00054	Peptidyl-prolyl cis-trans isomerase
contig00054	Peptidyl-prolyl cis-trans isomerase E
contig00054	Uncharacterized protein
contig00054	Cyclophilin
contig00054	Peptidylprolyl isomerase D
contig00054	Putative serologically defined colon cancer antigen 10
contig00054	Putative peptidylprolyl isomerase domain and WD repeat containing 1 isoform 1
contig00054	Putative cyclophilin-9
contig00078	Uncharacterized protein
contig00078	Actin
contig00078	ARP1 actin-related protein 1-like protein A
contig00078	Beta-actin
contig00078	Actin-related protein 10
contig00079	Actin
contig00079	Uncharacterized protein
contig00079	ARP1 actin-related protein 1-like protein A
contig00079	Beta-actin
contig00090	Uncharacterized protein
contig00112	Uncharacterized protein
contig00121	Uncharacterized protein
contig00121	Putative cop9 signalosome complex subunit
contig00147	DnaJ-5
contig00147	DnaJ-like protein 1

contig00147	DnaJ-like protein 2
contig00147	Putative testis spermatogenesis apoptosis-related protein 6
contig00147	DnaJ-like protein 3
contig00151	Cytochrome P450 332A5
contig00151	Antennae-rich cytochrome P450
contig00151	Cytochrome P450 9G3
contig00151	Cytochrome P450
contig00151	Cytochrome p450 321B1
contig00151	Antennal cytochrome P450 CYP9
contig00151	Cytochrome P450 6AE32
contig00151	Uncharacterized protein
contig00151	Cytochrome p450 CYP4S1
contig00151	Cytochrome P450 4CG1
contig00151	Cytochrome P450 CYP6CT1
contig00151	Cytochrome P450 332A4
contig00151	Putative cytochrome P450 CYP6AX1 protein
contig00151	CYP6AB4
contig00151	Cytochrome P450 4G49
contig00151	Cytochrome P450 4G4
contig00151	CYP4M25 protein
contig00151	Cytochrome P450 354A5
contig00151	Putative cytochrome P450
contig00151	Cytochrome P450 6AN5
contig00151	Cytochrome P450 CYP4L4
contig00151	CYP6AB7
contig00151	Cytochrome P450 301B1
contig00151	Cytochrome P450 6AB13
contig00151	Putative cytochrome P450 CYP4C39
contig00151	Cytochrome P450 6AB4
contig00151	Cytochrome P450 333B11
contig00151	Putative cytochrome P450 4V2-like protein
contig00151	Ribosomal protein L26
contig00152	Cytochrome P450 332A5
contig00152	Uncharacterized protein
contig00152	Cytochrome P450 332A4
contig00152	Antennae-rich cytochrome P450
contig00152	Cytochrome P450 6AN5
contig00152	Cytochrome P450 CYP6CT1
contig00152	Cytochrome P450
contig00152	Cytochrome P450 354A5
contig00152	Cytochrome P450 9G3

contig00152	CYP6AB4
contig00152	Antennal cytochrome P450 CYP9
contig00152	Cytochrome P450 6AE32
contig00152	Cytochrome p450 321B1
contig00152	Cytochrome P450 6AB4
contig00152	CYP6AB7
contig00194	Autophagy-Related Protein Atg8
contig00194	Microtubule-associated protein 1 light chain 3
contig00216	Uncharacterized protein
contig00235	Aldehyde oxidase 2
contig00235	Uncharacterized protein
contig00235	Sensory neuron membrane protein 2
contig00235	Sensory neuron membrane protein-2
contig00235	Epithelial membrane protein
contig00235	Scavenger receptor class B member 3
contig00277	Uncharacterized protein
contig00277	Phosphatidylethanolamine-binding protein
contig00277	Phosphatidylethanolamine binding protein isoform 2
contig00277	Putative phosphatidylethanolamine-binding protein isoform 1
contig00280	Heat shock protein hsp21.4
contig00280	HspB1
contig00280	19.8 kDa small heat shock protein
contig00280	Small heat shock protein 19.7
contig00280	Small heat shock protein
contig00280	Heat shock protein 20.4
contig00280	Heat shock protein 1
contig00280	Heat shock protein hsp23.7
contig00280	19.5 kDa heat shock protein
contig00280	33.6 kDa small heat shock protein
contig00310	Ubiquitin-conjugating enzyme E2 C
contig00310	Ubiquitin-conjugating enzyme rad6
contig00310	Ubiquitin conjugating enzyme E2
contig00310	Effete
contig00310	Uncharacterized protein
contig00310	Ubiquitin conjugating enzyme isoform 1
contig00310	Putative ubiquitin-conjugating enzyme E2 g
contig00310	Putative ubiquitin-conjugating enzyme E2T-like protein
contig00310	Ubiquitin conjugating enzyme 4
contig00310	Ubiquitin-conjugating enzyme E2M
contig00310	Ubiquitin-conjugating enzyme E2
contig00310	Ubiquitin-conjugating enzyme E2L

contig00310	Ubiquitin-conjugating enzyme h
contig00310	Putative ubiquitin-conjugating enzyme morgue
contig00310	Nedd8-conjugating enzyme nce2
contig00310	Putative Ubiquitin-conjugating enzyme E2 J2
contig00310	Putative Aktip protein
contig00375	Uncharacterized protein
contig00417	Uncharacterized protein
contig00462	Histone H3
contig00580	Cytochrome p450 321B1
contig00580	Uncharacterized protein
contig00580	CYP6AB4
contig00580	Cytochrome P450
contig00580	Cytochrome P450 CYP6CT1
contig00580	Cytochrome P450 6AN5
contig00580	Cytochrome P450 354A5
contig00580	Putative cytochrome p450
contig00580	Cytochrome P450 CYP6AB5
contig00580	Antennal cytochrome P450 CYP9
contig00580	Cytochrome P450 6AE32
contig00580	Cytochrome P450 9G3
contig00580	Cytochrome P450 332A5
contig00677	Cytochrome c oxidase subunit Va
contig00699	Uncharacterized protein
contig00703	UGT35E1
contig00703	Uncharacterized protein
contig00703	UDP-glucosyltransferase
contig00703	Uridine diphosphate glucosyltransferase
contig00703	Antennal-enriched UDP-glycosyltransferase
contig00703	Phenol UDP-glucosyltransferase
contig00703	Glucosyl/glucuronosyl transferase
contig00703	UDP-glucosyl transferase
contig00717	Putative cytochrome P450
contig00717	Uncharacterized protein
contig00717	Cytochrome P450 4G4
contig00717	Cytochrome P450
contig00717	Cytochrome P450 CYP4G48
contig00717	Cytochrome p450 CYP4S1
contig00717	Cytochrome P450 4CG1
contig00717	Putative cytochrome P450 CYP4C39
contig00717	CYP4M25 protein
contig00717	Cytochrome P450 CYP4L4

contig00747	Uncharacterized protein
contig00747	UGT35E1
contig00747	Glucosyl/glucuronosyl transferase
contig00747	Uridine diphosphate glucosyltransferase
contig00747	UDP-glucosyltransferase
contig00747	Antennal-enriched UDP-glycosyltransferase
contig00747	Phenol UDP-glucosyltransferase
contig00747	UDP-glucosyl transferase
contig00759	Laccase 1
contig00759	TPAlaccase-like multicopper oxidase 2 isoform B
contig00759	Laccase 2A
contig00759	Putative multicopper oxidase
contig00759	Uncharacterized protein
contig00790	Sodium/hydrogen exchanger
contig00790	Uncharacterized protein
contig00790	Sperm-specific sodium proton exchanger
contig00827	Adenylate cyclase
contig00827	Uncharacterized protein
contig00827	Putative adenylate cyclase
contig00827	Tetracyclin-resistance protein
contig00855	Juvenile hormone epoxide hydrolase
contig00855	Juvenile hormone epoxide hydrolase-like protein 4
contig00855	Glutathione peroxidase
contig00855	Juvenile hormone epoxide hydrolase-like protein 3
contig00857	Histone H2A
contig00868	Putative plasma glutamate carboxypeptidase
contig00871	Putative pyrroline-5-carboxylate reductase
contig00871	Uncharacterized protein
contig00887	Uncharacterized protein
contig00900	Uncharacterized protein
contig00912	UDP-glucosyltransferase
contig00912	Phenol UDP-glucosyltransferase
contig00912	UGT35E1
contig00912	Uridine diphosphate glucosyltransferase
contig00912	Uncharacterized protein
contig00912	UDP-glucosyl transferase
contig00912	Antennal-enriched UDP-glycosyltransferase
contig00912	Glucosyl/glucuronosyl transferase
contig00981	Bombyrin
contig00981	Chlorophyllide A binding protein
contig00981	Bilin-binding protein

contig00981	Bilin binding protein 1
contig00981	Lopap
contig01004	Putative secreted salivary protein
contig01108	Juvenile hormone epoxide hydrolase
contig01108	Juvenile hormone epoxide hydrolase-like protein 4
contig01108	Juvenile hormone epoxide hydrolase-like protein 3
contig01108	Glutathione peroxidase
contig01115	Nonmuscle myosin essential light chain
contig01115	Putative calmodulin-A
contig01115	Myosin 1 light chain
contig01115	Putative calmodulin
contig01115	Centrin
contig01115	Myosin light polypeptide 9 isoform B
contig01115	Uncharacterized protein
contig01115	Putative centrin
contig01115	Troponin C
contig01115	Myosin 3 light chain
contig01115	Troponin C 25D
contig01115	Troponin C type IIIa-like protein
contig01115	Troponin C type IIb
contig01121	Adenylate cyclase
contig01143	Uncharacterized protein
contig01143	Glucosyl/glucuronosyl transferase
contig01143	UGT35E1
contig01143	Antennal-enriched UDP-glycosyltransferase
contig01143	Uridine diphosphate glucosyltransferase
contig01143	UDP-glucosyltransferase
contig01143	Phenol UDP-glucosyltransferase
contig01143	UDP-glucosyl transferase
contig01188	Uncharacterized protein
contig01188	Takeout-like protein 3
contig01188	Takeout-like protein 1
contig01188	Odorant binding protein fmxg18C17
contig01188	Juvenile hormone binding protein an-0128
contig01188	Juvenile hormone binding protein
contig01188	Juvenile hormone binding protein an-0921
contig01188	Juvenile hormone binding protein wdS3-0639
contig01195	ADP-ribosylation factor
contig01195	Uncharacterized protein
contig01195	GTP-binding ADP-ribosylation factor Arf1
contig01195	ADP-ribosylation factor-like protein 3

contig01195	Putative ADP-ribosylation factor-like 2-like protein
contig01195	ADP-ribosylation factor-like protein
contig01195	Putative ADP-ribosylation factor-like protein 13B
contig01195	GTP-binding protein sar1
contig01195	Putative spliceosome associated protein
contig01195	Small GTP-binding protein Rab10
contig01195	Small GTP binding protein RAB8
contig01195	Ras-related small GTPase
contig01195	Putative ras-related protein Rab
contig01195	Small GTP-binding protein
contig01195	Guanine nucleotide-binding protein G(O) subunit alpha 1
contig01195	Putative Ras-related protein Rab-27A
contig01195	Signal recognition particle receptor beta subunit
contig01212	Uncharacterized protein
contig01244	Uncharacterized protein
contig01244	Putative Supervillin
contig01244	Putative villin
contig01285	Putative endonuclease and reverse transcriptase-like protein
contig01285	Reverse transcriptase
contig01285	Putative polyprotein
contig01285	Putative pol-like protein
contig01285	Endonuclease-reverse transcriptase
contig01285	Carboxylesterase
contig01285	Uncharacterized protein
contig01285	Endonuclease-reverse transcriptase HmRTE-e01
contig01285	Serine protease inhibitor 28
contig01317	Uncharacterized protein
contig01356	T-complex protein 1 subunit gamma
contig01453	UGT35E1
contig01453	Antennal-enriched UDP-glycosyltransferase
contig01453	Uncharacterized protein
contig01501	Adenylate cyclase
contig01501	Putative adenylate cyclase
contig01501	Uncharacterized protein
contig01501	Tetracyclin-resistance protein
contig01503	Cytochrome P450 CYP4L4
contig01503	Cytochrome P450 4CG1
contig01503	Cytochrome P450 4G4
contig01503	CYP4M25 protein
contig01503	Cytochrome P450
contig01503	Putative cytochrome P450

contig01503	Cytochrome p450 CYP4S1
contig01503	Cytochrome P450 4G49
contig01503	Uncharacterized protein
contig01503	Putative cytochrome P450 CYP4C39
contig01503	Ribosomal protein L26
contig01503	Putative cytochrome P450 4V2-like protein
contig01503	Cytochrome P450 354A5
contig01503	Cytochrome P450 6AE32
contig01503	Cytochrome P450 332A4
contig01503	CYP6AB4
contig01503	Antennal cytochrome P450 CYP9
contig01503	Cytochrome P450 CYP4G48
contig01503	Cytochrome P450 9G3
contig01503	Antennae-rich cytochrome P450
contig01503	Cytochrome P450 CYP6CT1
contig01503	Cytochrome P450 332A5
contig01503	Cytochrome P450 301B1
contig01503	CYP6AB7
contig01503	Cytochrome P450 6AN5
contig01503	Putative cytochrome P450 CYP6AX1 protein
contig01503	Cytochrome p450 321B1
contig01503	Cytochrome P450 333B11
contig01503	Putative cytochrome P-450
contig01503	Cytochrome P450 6AB4
contig01503	Cytochrome P450 333A3
contig01517	Guanine nucleotide-binding protein subunit gamma
contig01712	Uncharacterized protein
contig01712	Putative white family ATP-binding cassette transporter
contig01744	Uncharacterized protein
contig01744	ADP-ribosylation factor
contig01744	ADP-ribosylation factor-like protein 3
contig01744	Putative ADP-ribosylation factor-like 2-like protein
contig01744	GTP-binding ADP-ribosylation factor Arf1
contig01806	Uncharacterized protein
contig01843	Uncharacterized protein
contig01843	Putative cytochrome P-450
contig01843	Cytochrome P450
contig01843	Cytochrome P450 4CG1
contig01843	Putative cytochrome P450
contig01843	Cytochrome P450 301B1
contig01843	CYP6AB7

contig01843	Cytochrome P450 CYP4L4
contig01843	Cytochrome P450 333B11
contig01843	Putative cytochrome P450 CYP4C39
contig01843	Cytochrome P450 6AN5
contig01843	Cytochrome P450 CYP6CT1
contig01843	Putative cytochrome P450 4V2-like protein
contig01843	Cytochrome P450 4G4
contig01874	Uncharacterized protein
contig01874	Putative amidase isoform 1
contig01874	Putative amidotransferase subunit A
contig01995	3-dehydroecdysone 3alpha-reductase
contig01995	Hydroxybutyrate dehydrogenase
contig01995	Short-chain dehydrogenease/reductase-like protein
contig01995	Short-chain dehydrogenease/reductase
contig01995	Uncharacterized protein
contig01995	L-xylulose reductase
contig01995	Putative alcohol dehydrogenase
contig01995	3-hydroxyacyl-CoA dehydrogenase
contig01995	Putative short-chain dehydrogenase
contig01995	Alcohol dehydrogenase
contig01995	Carbonyl reductase
contig01995	Hydroxysteroid dehydrogenase
contig01995	Putative RDH13
contig01995	15-hydroxyprostaglandin dehydrogenase
contig01995	Short-chain dehydrogenase
contig02021	Uncharacterized protein
contig02021	Putative pol-like protein
contig02021	Gag-like protein
contig02302	Ribosomal protein L8
contig02349	Uncharacterized protein
contig02596	Ribosomal protein L40
contig02596	Putative ubiquitin C variant 2
contig02596	Ubiquitin-40S ribosomal protein S27a
contig02596	Ubc protein
contig02596	Putative NEDD8
contig02596	Uncharacterized protein
contig02596	Transport protein Sec61 alpha subunit
contig02740	Myosin light polypeptide 9 isoform B
contig02740	Myosin 3 light chain
contig02740	Uncharacterized protein
contig02740	Putative calmodulin-A

contig02740	Putative calmodulin
contig02740	Nonmuscle myosin essential light chain
contig02740	Putative centrin
contig02740	Centrin
contig02740	Troponin C
contig02740	Troponin C type IIIa-like protein
contig02787	Endonuclease-reverse transcriptase
contig02956	Uncharacterized protein
contig02956	Der1-like domain family member 1
contig03529	Cytochrome c oxidase polypeptide Vb
contig03529	Uncharacterized protein
contig03536	Prohibitin protein WPH
contig03536	Mitochondrial prohibitin complex protein 2
contig03541	Putative defense protein Hdd11
contig03614	Uncharacterized protein
contig03621	40S ribosomal protein S18
contig03864	Uncharacterized protein
contig03864	Hemolymph proteinase 8
contig03864	Prophenol oxidase activating enzyme 3
contig03864	PxProphenoloxidase-activating proteinase 3
contig03864	Hemocyte protease-1
contig03864	Hemolymph proteinase 5
contig03864	Prophenoloxidase activating proteinase 1
contig03864	Clip domain serine protease 4
contig03864	Hemolymph proteinase 17
contig03864	Putative hemolymph proteinase 5
contig03864	Hemolymph proteinase 24
contig03864	Ovarian serine protease
contig03864	Serine protease P54
contig03864	Prophenol oxidase activating enzyme
contig03864	Serine protease
contig03864	Hemolymph proteinase 6
contig03864	Serine protease-like protein
contig03864	Putative adhesive serine protease
contig03864	Serine protease H42
contig03864	Serine proteinase-like protein 2
contig03864	Coagulation factor-like protein 3
contig03864	Prophenoloxidase activating proteinase-2
contig03864	Hemolymph proteinase 17 short form
contig03864	Trypsin-like proteinase T2b
contig03864	Serine proteinase-like protein 1

contig03864	Putative serine protease
contig03864	Serine protease like protein
contig03864	Pattern recognition serine proteinase
contig03864	Trypsin-like proteinase T2a
contig03864	Serine protease 7
contig03864	Putative trypsin-like serine protease
contig03864	Trypsin-1
contig03864	Trypsin
contig03864	Putative serine-type enodpeptidase
contig03864	Oviductin
contig03864	Putative DEAD box ATP-dependent RNA helicase
contig03864	Trypsin-like protein
contig03864	Hemolymph proteinase 9
contig03864	Trypsin AiT9
contig03864	Hemolymph proteinase 16
contig03864	Serine protease 1
contig03864	Chymotrypsinogen-like protein
contig03864	Trypsin CFT-1
contig03864	Serine protease 5
contig03864	Putative trypsin-like proteinase
contig03864	Trypsin-like serine protease
contig03864	Hemolymph proteinase 22
contig03864	Serine protease 24
contig03864	Serine protease 120
contig03864	Chymotrypsin
contig03864	Chymotrypsin-like serine protease
contig03974	Mitochondrial ATP synthase coupling factor 6
contig04751	F-spondin
contig04751	Uncharacterized protein
contig04751	Putative f-spondin
contig05072	Isocitrate dehydrogenase [NADP]
contig05473	Uncharacterized protein
contig05494	Uncharacterized protein
contig05494	Antennal esterase CXE19
contig05497	Proteasome subunit beta type
contig05649	Uncharacterized protein
contig05649	Mitochondrial processing peptidase beta subunit
contig05649	Ubiquinol-cytochrome c reductase core protein I
contig05725	Eukaryotic translation initiation factor 3 subunit H
contig05725	Eukaryotic translation initiation factor 3 subunit F
contig05727	Putative RDH13

contig05727	Uncharacterized protein
contig05727	Short-chain dehydrogenase
contig05727	Putative retinol dehydrogenase 11
contig05727	WW domain-containing oxidoreductase
contig05727	Putative restnol dehydrogenase
contig05727	Endonuclease-reverse transcriptase
contig05727	Endonuclease-reverse transcriptase HmRTE-e01
contig05737	Uncharacterized protein
contig05737	Juvenile hormone diol kinase
contig05764	Tyrosine phosphatase IVA1
contig05809	Tetraspanin D76
contig05809	Tetraspanin D107
contig05809	Tetraspanin 29fb
contig05809	Putative tetraspanin
contig05809	Uncharacterized protein
contig05809	Tetraspanin E118
contig05821	Cellular retinaldehyde-binding protein
contig05821	Uncharacterized protein
contig05821	Putative SEC14
contig05821	Putative phosphatidylinositol transfer protein
contig05821	Putative CRAL/TRIO domain-containing protein
contig05821	Cellular retinaldehyde binding protein
contig05822	H+ transporting ATP synthase subunit d
contig05844	Putative Ecdysteroid-regulated 16 kDa protein
contig05844	Ecdysteroid-regulated 16 kDa protein
contig05844	Promoting protein
contig05851	Glutathione S-transferase theta 1
contig05852	Thiol peroxiredoxin
contig05852	Putative peroxiredoxin
contig05852	Thioredoxin peroxidase
contig05852	1-Cys peroxiredoxin
contig05854	Vacuolar ATP synthase 21 kDa proteolipid subunit
contig05855	Uncharacterized protein
contig05858	Aldehyde oxidase 2
contig05858	Aldehyde oxidase 1
contig05858	Putative aldehyde oxidase
contig05858	Xanthine dehydrogenase
contig05862	DEAD box polypeptide 5
contig05862	Uncharacterized protein
contig05862	DEAD box ATP-dependent RNA helicase-like protein
contig05862	DEAD box ATP-dependent RNA helicase

contig05862	DEAD box RNA helicase
contig05862	ATP-dependent RNA helicase belle-like protein
contig05862	Vasa-like protein
contig05862	Putative ATP-dependent RNA helicase abstrakt
contig05862	Putative DEAD box ATP-dependent RNA helicase
contig05862	Eukaryotic initiation factor 4A-III
contig05862	Eukaryotic initiation factor 4A
contig05862	RNA helicase
contig05862	DEAD box helicase
contig05862	Putative ATP-dependent RNA helicase pitchoune
contig05862	Putative ATP-dependent RNA helicase DDX51
contig05862	RNA helicase-like protein
contig05862	Putative RecQ Helicase
contig05862	Rothmund-thomson syndrome DNA helicase recq4
contig05862	DNA helicase recq5
contig05870	Aldehyde oxidase 2
contig05870	Sensory neuron membrane protein-1
contig05870	Epithelial membrane protein
contig05870	Uncharacterized protein
contig05870	Sensory neuron membrane protein-2
contig05870	Scavenger receptor class B member 4
contig05870	Scavenger receptor class B member 3
contig05872	Putative odorant-degrading enzyme
contig05872	Antennal esterase CXE17
contig05872	Antennal esterase CXE18
contig05872	Uncharacterized protein
contig05872	Antennal esterase CXE20
contig05872	Integument esterase 2
contig05872	Antennal esterase CXE11
contig05880	Uncharacterized protein
contig05884	Protein disulfide isomerase
contig05884	Protein disulfide-isomerase like protein ERp57
contig05884	Uncharacterized protein
contig05884	Disulfide-isomerase TXNDC10
contig05884	Sulfhydryl oxidase
contig05884	Thioredoxin
contig05895	Eukaryotic initiation factor 4A
contig05895	Eukaryotic initiation factor 4A-III
contig05895	Putative DEAD box ATP-dependent RNA helicase
contig05895	DEAD box ATP-dependent RNA helicase
contig05895	Uncharacterized protein

contig05895	DEAD box polypeptide 5
contig05895	ATP-dependent RNA helicase belle-like protein
contig05895	Putative ATP-dependent RNA helicase abstrakt
contig05895	DEAD box ATP-dependent RNA helicase-like protein
contig05895	Vasa-like protein
contig05895	DEAD box RNA helicase
contig05895	RNA helicase
contig05895	DEAD box helicase
contig05895	Putative ATP-dependent RNA helicase pitchoune
contig05895	Putative ATP-dependent RNA helicase DDX51
contig05895	DNA helicase recq5
contig05899	Uncharacterized protein
contig05909	Uncharacterized protein
contig05921	ATP synthase subunit gamma
contig05933	Putative calmodulin-A
contig05933	Putative calmodulin
contig05933	Uncharacterized protein
contig05933	Centrin
contig05933	Troponin C
contig05933	Troponin C type IIIa-like protein
contig05933	Nonmuscle myosin essential light chain
contig05933	Myosin light polypeptide 9 isoform B
contig05933	Putative centrin
contig05933	Troponin C 25D
contig05933	Myosin 3 light chain
contig05933	Myosin 1 light chain
contig05933	Troponin C type IIb
contig05933	Putative calcineurin B
contig05933	Calmodulin-A
contig05933	Hippocalcin
contig05933	Calcium and integrin binding protein CIB
contig05933	Myosin regulatory light chain
contig05933	Glycerol-3-phosphate dehydrogenase isoform 1
contig05933	Dual oxidase 1
contig05933	Putative mitochondrial solute carrier
contig05933	Putative Spectrin alpha chain
contig05939	Poly A binding protein
contig05939	Spliceosomal protein on the X
contig05939	Sex-lethal
contig05939	TIA-1-related RNA binding protein
contig05939	Uncharacterized protein

contig05939	Putative ELAV-like protein 1
contig05939	Putative RNA-binding protein
contig05939	Squid protein-like proteinue
contig05939	Heterogeneous nuclear ribonucleoprotein A1
contig05939	tRNA selenocysteine associated protein
contig05939	RNA-binding protein lark
contig05939	Putative RNA-binding region-containing protein
contig05939	Putative polyA-binding protein
contig05939	Splicing factor proline-and glutamine-rich
contig05939	TAR DNA binding protein-like protein
contig05939	Putative serine/arginine rich splicing factor
contig05939	Peptidyl-prolyl cis-trans isomerase E
contig05939	RNA binding motif protein X-linked 2
contig05939	Arginine/serine-rich splicing factor 7
contig05939	Putative U11/U12 snRNP 35K
contig05972	Adenosylhomocysteinase
contig05972	Putative adenosylhomocysteinase
contig05972	Uncharacterized protein
contig05979	Uncharacterized protein
contig05982	Uncharacterized protein
contig05998	Putative copper-zinc superoxide dismutase
contig05998	Superoxide dismutase [Cu-Zn]
contig05998	Putative copper chaperone for superoxide dismutase
contig06004	Uncharacterized protein
contig06004	MBF2
contig06006	Juvenile hormone binding protein
contig06006	Odorant binding protein fmxg18C17
contig06006	Juvenile hormone binding protein an-0128
contig06006	Uncharacterized protein
contig06019	Glutathione S-transferase 1
contig06019	Glutathione S-transferase delta 1
contig06019	Glutathione S-transferase 5
contig06019	Glutathione S-transferase epsilon 3
contig06019	Glutathione S-transferase epsilon 6
contig06019	Glutathione S-transferase epsilon 4
contig06019	Glutathione S-transferase theta
contig06019	Glutathione S-transferase epsilon 2
contig06019	Glutathione S-transferase unclassified 1
contig06019	Glutathione S-transferase 14
contig06024	ATPase inhibitor-like protein
contig06164	Putative leukocyte receptor cluster member

contig06249	Phosphatidylethanolamine binding protein isoform 2
contig06249	Phosphatidylethanolamine-binding protein
contig06249	Putative phosphatidylethanolamine-binding protein isoform 1
contig06249	Uncharacterized protein
contig06293	Uncharacterized protein
contig06369	Acetyltransferase
contig06369	N-acetyltransferase
contig06369	Putative acetyltransferase C complex catalytic subunit Mak3
contig06376	Zinc transporter
contig06376	Uncharacterized protein
contig06402	Serpin 1
contig06402	Serpin 1b
contig06402	Serpin-2
contig06402	Serine protease inhibitor 28
contig06402	Unc-5
contig06402	Serpin 3a
contig06402	Serine protease inhibitor 12
contig06402	Serine protease inhibitor 11
contig06402	Serine protease inhibitor 6
contig06402	Serine protease inhibitor 32
contig06402	Serine protease inhibitor 33
contig06402	Serine protease inhibitor 4
contig06402	Serine protease inhibitor 5
contig06402	Serine protease inhibitor 10
contig06425	Cytochrome P450 333B11
contig06425	Cytochrome P450 333A3
contig06425	Cytochrome P450 301B1
contig06425	Uncharacterized protein
contig06425	Cytochrome P450 4CG1
contig06425	Cytochrome P450 6AE32
contig06425	Cytochrome P450
contig06425	Putative cytochrome P-450
contig06425	Cytochrome P450 4G4
contig06425	Cytochrome p450 CYP4S1
contig06425	Antennae-rich cytochrome P450
contig06425	Cytochrome P450 332A4
contig06425	CYP4M25 protein
contig06425	Cytochrome P450 332A5
contig06425	Cytochrome P450 4G49
contig06425	Cytochrome P450 6AN5
contig06425	Putative cytochrome P450 CYP6AX1 protein

contig06425	Cytochrome P450 9G3
contig06425	CYP6AB4
contig06425	Antennal cytochrome P450 CYP9
contig06425	Cytochrome P450 354A5
contig06425	CYP6AB7
contig06425	Putative cytochrome P450
contig06425	Cytochrome p450 321B1
contig06425	Cytochrome P450 CYP6CT1
contig06425	Cytochrome P450 CYP4L4
contig06425	Putative cytochrome P450 CYP4C39
contig06425	Ribosomal protein L26
contig06425	Cytochrome P450 6AB13
contig06425	Cytochrome P450 6AB4
contig06425	Putative cytochrome P450 4V2-like protein
contig06429	Growth-blocking peptide
contig06430	Uncharacterized protein
contig06435	C-type lectin 5
contig06435	C-type lectin 4
contig06435	C-type lectin
contig06451	Saposin-related protein
contig06461	Antennal-enriched UDP-glycosyltransferase
contig06461	Uridine diphosphate glucosyltransferase
contig06461	Uncharacterized protein
contig06461	UDP-glucosyltransferase
contig06461	UGT35E1
contig06461	Phenol UDP-glucosyltransferase
contig06461	UDP-glucosyl transferase
contig06461	Glucosyl/glucuronosyl transferase
contig06481	Putative vacuolar ATP synthase subunit D
contig06481	Vacuolar ATP synthase subunit D
contig06481	Uncharacterized protein
contig06493	Prophenoloxidase activating proteinase-2
contig06498	Uncharacterized protein
contig06523	Uncharacterized protein
contig06552	Aldehyde dehydrogenase isoform 2
contig06552	Uncharacterized protein
contig06552	Mitochondrial aldehyde dehydrogenase
contig06552	Aldehyde dehydrogenase
contig06552	Putative aldehyde dehydrogenase
contig06616	Uncharacterized protein
contig06662	Aquaporin

contig06662	Aquaporin AQP-Gra1
contig06665	Uncharacterized protein
contig06720	Integrase
contig06734	Chemosensory protein
contig06734	Chemosensory protein 15
contig06734	Chemosensory protein 11b
contig06734	Chemosensory protein 12
contig06734	Chemosensory protein 7
contig06734	Sensory appendage protein 3
contig06734	Chemosensory protein CSP1
contig06734	Chemosensory protein 4
contig06734	Chemosensory protein 13
contig06734	Uncharacterized protein
contig06744	Uncharacterized protein
contig06744	Retinol dehydratase
contig06744	Sulfotransferase
contig06746	Uncharacterized protein
contig06750	Uncharacterized protein
contig06788	Calreticulin
contig06788	Uncharacterized protein
contig06818	Uncharacterized protein
contig06829	Endonuclease-reverse transcriptase
contig06829	Endonuclease-reverse transcriptase HmRTE-e01
contig06830	Angiotensin converting enzyme
contig06830	Putative ecdysteroid-inducible angiotensin-converting enzyme
contig06830	Uncharacterized protein
contig06830	Putative angiotensin-converting enzyme
contig06830	Angiotensin-converting enzyme
contig06832	V-type proton ATPase subunit d
contig06835	Cytochrome P450 4G4
contig06835	Cytochrome P450 4G49
contig06835	Cytochrome P450 4CG1
contig06835	Cytochrome P450
contig06835	Cytochrome P450 CYP4L4
contig06835	CYP4M25 protein
contig06835	Cytochrome P450 CYP4G48
contig06835	Putative cytochrome P450
contig06835	Cytochrome p450 CYP4S1
contig06835	Putative cytochrome P450 CYP4C39
contig06835	Uncharacterized protein
contig06835	Ribosomal protein L26

contig06835	Putative cytochrome P450 4V2-like protein
contig06835	Cytochrome P450 6AE32
contig06835	Cytochrome P450 9G3
contig06835	Cytochrome p450 321B1
contig06835	CYP6AB7
contig06835	Cytochrome P450 332A5
contig06835	CYP6AB4
contig06835	Cytochrome P450 CYP6CT1
contig06835	Cytochrome P450 332A4
contig06835	Cytochrome P450 301B1
contig06835	Antennae-rich cytochrome P450
contig06835	Putative cytochrome P450 CYP6AX1 protein
contig06835	Cytochrome P450 6AN5
contig06835	Cytochrome P450 354A5
contig06835	Antennal cytochrome P450 CYP9
contig06835	Cytochrome P450 6AB13
contig06835	Cytochrome P450 333A3
contig06835	Cytochrome P450 6AB4
contig06835	Cytochrome P450 333B11
contig06835	Putative cytochrome P-450
contig06849	Heat shock protein 90
contig06849	Uncharacterized protein
contig06849	Heat shock protein
contig06856	Uncharacterized protein
contig06856	Putative phosphatidylinositol transfer protein
contig06856	Cellular retinaldehyde-binding protein
contig06856	Putative CRAL/TRIO domain-containing protein
contig06859	Aldehyde oxidase 2
contig06859	Aldehyde oxidase 1
contig06859	Putative aldehyde oxidase
contig06859	Xanthine dehydrogenase
contig06859	Antennal aldehyde oxidase
contig06864	Elongation of very long chain fatty acids protein
contig06879	Small heat shock protein
contig06879	Heat shock protein 1
contig06879	Heat shock protein hsp23.7
contig06879	19.8 kDa small heat shock protein
contig06879	Small heat shock protein 19.7
contig06879	Heat shock protein 20.4
contig06879	33.6 kDa small heat shock protein
contig06884	Cytochrome P450

contig06884	Putative cytochrome P450
contig06884	Cytochrome P450 CYP4L4
contig06884	CYP4M25 protein
contig06884	Cytochrome p450 CYP4S1
contig06884	Cytochrome P450 4CG1
contig06884	Cytochrome P450 4G4
contig06884	Uncharacterized protein
contig06884	Putative cytochrome P450 CYP4C39
contig06889	Putative selenoprotein T
contig06893	Centrin
contig06893	Putative centrin
contig06893	Putative calmodulin-A
contig06893	Putative calmodulin
contig06893	Uncharacterized protein
contig06893	Nonmuscle myosin essential light chain
contig06893	Troponin C type IIIa-like protein
contig06893	Troponin C
contig06893	Troponin C type IIb
contig06893	Putative calcineurin B
contig06893	Troponin C 25D
contig06893	Calcium and integrin binding protein CIB
contig06893	Myosin 1 light chain
contig06893	Myosin light polypeptide 9 isoform B
contig06911	Uncharacterized protein
contig06951	V-type proton ATPase subunit E
contig06971	Uncharacterized protein
contig06999	Putative ATP-binding cassette
contig07009	Putative cytochrome P450
contig07009	Putative cytochrome P450 CYP4C39
contig07009	Cytochrome P450 4G49
contig07009	Cytochrome P450 4G4
contig07009	Cytochrome P450
contig07009	Cytochrome P450 4CG1
contig07009	Uncharacterized protein
contig07009	Antennal cytochrome P450 CYP9
contig07009	Cytochrome p450 321B1
contig07009	Cytochrome p450 CYP4S1
contig07009	CYP6AB4
contig07009	Cytochrome P450 6AE32
contig07009	Ribosomal protein L26
contig07009	CYP4M25 protein

contig07009	Cytochrome P450 CYP4L4
contig07009	Putative cytochrome P450 4V2-like protein
contig07009	Cytochrome P450 6AN5
contig07009	Cytochrome P450 301B1
contig07009	Cytochrome P450 332A5
contig07009	Cytochrome P450 CYP6CT1
contig07009	Cytochrome P450 354A5
contig07009	Cytochrome P450 9G3
contig07009	Antennae-rich cytochrome P450
contig07040	Uncharacterized protein
contig07045	Hydroxybutyrate dehydrogenase
contig07045	3-dehydroecdysone 3alpha-reductase
contig07045	Short-chain dehydrogenease/reductase-like protein
contig07045	Short-chain dehydrogenease/reductase
contig07045	Uncharacterized protein
contig07093	Uncharacterized protein
contig07093	Retinol-binding protein
contig07093	Putative leucine rich repeat containing 34
contig07093	Putative acetyltransferase
contig07095	Cytochrome P450 6AE32
contig07095	Cytochrome P450
contig07095	Uncharacterized protein
contig07095	Cytochrome p450 321B1
contig07095	CYP6AB4
contig07095	Cytochrome P450 6AN5
contig07095	CYP6AB7
contig07095	Cytochrome P450 CYP6CT1
contig07095	Antennae-rich cytochrome P450
contig07095	Cytochrome P450 332A5
contig07095	Antennal cytochrome P450 CYP9
contig07095	Cytochrome P450 332A4
contig07095	Cytochrome P450 4CG1
contig07095	Cytochrome P450 9G3
contig07095	Cytochrome P450 354A5
contig07095	Cytochrome P450 6AB13
contig07095	Putative cytochrome P450 CYP6AX1 protein
contig07095	Cytochrome p450 CYP4S1
contig07095	Cytochrome P450 4G4
contig07095	Cytochrome P450 4G49
contig07095	Putative cytochrome P450
contig07095	CYP4M25 protein

contig07095	Putative cytochrome P450 CYP4C39
contig07095	Cytochrome P450 CYP4L4
contig07095	Cytochrome P450 333B11
contig07095	Putative cytochrome P450 4V2-like protein
contig07095	Cytochrome P450 6AB4
contig07095	Cytochrome P450 301B1
contig07095	Ribosomal protein L26
contig07095	Putative cytochrome P-450
contig07095	Cytochrome P450 333A3
contig07096	Uncharacterized protein
contig07148	Uncharacterized protein
contig07156	Uncharacterized protein
contig07161	Glutathione peroxidase
contig07164	Uncharacterized protein
contig07164	Ribosomal protein L26
contig07164	Putative cytochrome P450
contig07164	Cytochrome P450
contig07164	Putative cytochrome P450 4V2-like protein
contig07164	Cytochrome P450 4CG1
contig07164	Cytochrome P450 4G4
contig07164	Cytochrome P450 4G49
contig07164	Cytochrome P450 CYP4L4
contig07164	Cytochrome p450 CYP4S1
contig07164	CYP4M25 protein
contig07164	Putative cytochrome P450 CYP4C39
contig07164	Antennae-rich cytochrome P450
contig07164	Putative cytochrome P450 CYP6AX1 protein
contig07164	Cytochrome P450 301B1
contig07164	Cytochrome P450 332A5
contig07164	Cytochrome p450 321B1
contig07164	Cytochrome P450 6AE32
contig07164	Cytochrome P450 9G3
contig07164	Cytochrome P450 354A5
contig07164	Putative cytochrome P-450
contig07164	Cytochrome P450 6AN5
contig07165	Uncharacterized protein
contig07165	Proteasome subunit beta 1
contig07165	Proteasome subunit beta type
contig07181	Protease m1 zinc metalloprotease
contig07181	Uncharacterized protein
contig07191	40S ribosomal protein S11

contig07194	Dynein molecular motor protein light chain 1
contig07194	Putative cytoplasmic dynein light chain
contig07194	Putative dynein light chain Tctex-type
contig07227	Uncharacterized protein
contig07227	Cellular retinaldehyde-binding protein
contig07227	Putative phosphatidylinositol transfer protein
contig07227	Putative CRAL/TRIO domain-containing protein
contig07227	Putative CRALBP
contig07228	Chemosensory protein
contig07228	Sensory appendage protein 3
contig07228	Chemosensory protein 4
contig07228	Chemosensory protein CSP1
contig07228	Uncharacterized protein
contig07228	Chemosensory protein 13
contig07228	Chemosensory protein 12
contig07228	Chemosensory protein 15
contig07228	Chemosensory protein 7
contig07228	Chemosensory protein 11b
contig07236	Uncharacterized protein
contig07242	Chemosensory protein
contig07242	Chemosensory protein 4
contig07242	Uncharacterized protein
contig07242	Chemosensory protein 13
contig07242	Sensory appendage protein 3
contig07242	Chemosensory protein CSP1
contig07242	Chemosensory protein 12
contig07242	Chemosensory protein 7
contig07242	Chemosensory protein 11b
contig07242	Chemosensory protein 15
contig07249	Uncharacterized protein
contig07249	Cuticular protein RR-1 motif 25
contig07313	Uncharacterized protein
contig07324	Uncharacterized protein
contig07324	Spz1B
contig07331	Uncharacterized protein
contig07333	Aldehyde oxidase 2
contig07333	Aldehyde oxidase 1
contig07333	Putative aldehyde oxidase
contig07333	Xanthine dehydrogenase
contig07334	Glutamate semialdehyde dehydrogenase
contig07345	Molybdopterin synthase catalytic subunit

contig07345	Molybdopterin synthase sulfur carrier subunit
contig07350	Ribonuclease
contig07350	Uncharacterized protein
contig07357	Putative pol-like protein
contig07364	Vacuolar ATP synthase subunit G
contig07376	Odorant-binding protein
contig07376	Uncharacterized protein
contig07376	Juvenile hormone binding protein
contig07376	Odorant binding protein fmxg18C17
contig07376	Putative high affinity nuclear juvenile hormone binding protein
contig07391	Uncharacterized protein
contig07404	Putative cytochrome P450 CYP4C39
contig07404	Putative cytochrome P450
contig07404	Cytochrome P450 4G4
contig07404	Cytochrome P450 CYP4G48
contig07404	Cytochrome P450 CYP4L4
contig07404	Uncharacterized protein
contig07404	Cytochrome p450 CYP4S1
contig07404	Cytochrome P450
contig07404	Cytochrome P450 4CG1
contig07404	CYP4M25 protein
contig07405	Sensory neuron membrane protein-2
contig07405	Uncharacterized protein
contig07405	Aldehyde oxidase 2
contig07405	Epithelial membrane protein
contig07405	Scavenger receptor class B member 3