Table S1. List of primers used for the qRT-PCR determination of genes.

Vectorbase‡	Forward primer (5'-3')	Reverse primer (5'-3')
CPIJ000841	CTTGATCTGGGCGTGAACA	TTTTCCATGGGCTCCAAAG
CPIJ001357	TCGGGATCGTCATCTTCTTC	GACCGATCGGCAGTGTACG
CPIJ002046	AATTCCGAACCGTCGTCAC	GTAGGTCGCGGCATAGCTC
CPIJ003456	GCACATCCCCGAAGTGTC	CCAGCTGGGCGTAAATGA
CPIJ003525	GGCGTAACGTGGATGTTTCT	ATAAACTTGAACGCCGTTGG
CPIJ003531	ACGAATCGTACGACCTGGAC	CTTCTGGCCAAGCTTCAAAC
CPIJ003879	CAGCTGGCAGTGTTGCTG	TCCAAGTGGACGGCCTTA
CPIJ003915	GACGAGCACGTTACGCTCA	ACGGACCACCAGAGTCACC
CPIJ004290	AAGGCCGTCGATGACTACG	AATCCGTTGACGGGATCAG
CPIJ004640	TTCCAGGTGTCCCTCATCC	TCAGCGCGTTGTAGTTTGG
CPIJ004660	GAACCGATTCACCGTCCTG	ATCCACCGCAGAAGTGTCC
CPIJ005273	GAACCGGCTGACGAGAGTC	GCGTCCTTTCCTCCTTCCT
CPIJ005473	CCTGCCGGACAAAGACTAAG	TCGGGGGTTGTTAGTACCAG
CPIJ005952	TACGAGCTGGCCCTTAATCCGTTT	AGACTTTCCGCAGGTGGGTACTTT
CPIJ006502	GTTCCACCACATCCCAACTC	CGGCTCAAACAGATCAGACA
CPIJ007079	ATCCATCATCTCGCCCAAG	TTCAGCTCCAGCAGGGAGT
CPIJ007193	ACGACGCCCAGTATTACGC	ATACTTGCGCAGCATCACG
CPIJ007471	TGGATCTGCTGCGTCTGA	AGCGCCAGTTTGAGTTGC
CPIJ008286	GACCGGGAAGTCAGATCCA	TGCGTTCCAGATGAAGGTG
CPIJ008515	GATCCTCAGCGATCGAAGC	CAGCAGCTCGTTGCACACT
CPIJ010190	AACGCTTCTGCCAGTGTC	AAAACCACATGCCAGCATTC
CPIJ011837	TTATTCCGTTCAGTGGAGGCACGA	TTCAGCAGTGCTTCAAACCGGAAG
CPIJ012470	TGAACGTCCTTAGGGATGGCGAAA	TTGCTAGTCGCGGAAACGAACTGA
CPIJ012707	CCGACATGGGACCTGTGTA	CTGCATCGCAGCACATTC
CPIJ012708	TCCTGCGTTGCTCCAAAT	GTACCCCGCATTGCAGTC
CPIJ012716	TGCCATCATTTCCCTAGCC	AGAAGCACTGCACGAAGCA
CPIJ012719	CTGACCATCGAGCAGCAGA	CGACGGTCTTTTCCTGGAC
CPIJ012721	CCAAGTGTTTCGTGCGTTG	CCGGTTCCGATAGAAGCAC
CPIJ013321	GCAAACTCTGCTGGGCTATC	CGTGTCCAGGTGCTTGTAGA
CPIJ013633	CCAGGTCTCGTTCCTGCAT	CAGGTAGGGCTTCCACCAG
CPIJ015385	GCCAATCCGTGCTTCAAC	AGGTTGCACGGACACCAC
CPIJ015960	AGTGCATTCGGAGGTCCTTCATGT	AGACTTGTCACCAGCTTATCGGCA
CPIJ016702	CAGCAGCAGCAAAAAGTGC	GTGTTCGCACTGGAGACGA
CPIJ019052	GCCTTGATTTCCGGGACTT	CGCCCAGATCTTTGTGCTT
CPIJ019581	CAACTACGAGTGGGGCAAGT	ACTCAAGACGGCAATGATGA
CPIJ020018	TGTCCAAGTTTCGGTTCGAGGCTA	AGGTGATGGCATCCGTTGAGGTAT
rRNA	CGCGGTAATTCCAGCTCCACTA	GCATCAAGCGCCACCATATAGG

‡*Cx. quinquefasciatus* genome Johannesberg strain v1.2, www.vectorbase.org

Table S2: Complete list of up- and down-regulated genes for sugar-fed only females for the HAmCq^{G8} strain of *Culex quinquefasciatus* for the initial 72h post-eclosion.

Time interval	SCOP[†] general function	Gene	Vectorbase anotation[‡]	FPKM[*] (time 1)	FPKM (time 2)	Fold change
2 to 12h	General	CPIJ002675	glutathione S-transferase 1	1.0	21.8	22.5
	Information	CPIJ009133	salivary endonuclease	3.2	94.6	29.4
	Intra-cellular processes	CPIJ001773	synaptic vesicle protein	0.2	6.3	29.0
		CPIJ001774	synaptic vesicle protein	0.3	5.1	17.7
		CPIJ001775	synaptic vesicle protein	0.7	21.9	31.0
		CPIJ008945	sugar transporter	2.5	25.7	10.3
		CPIJ008946	sugar transporter	3.0	34.3	11.3
		CPIJ017478	conserved hypothetical protein	3.4	28.0	8.3
		CPIJ019591	solute carrier family 2	10.8	125.7	11.6
		CPIJ001239	cathepsin B	2.0	96.0	49.2
		CPIJ001240	cathepsin B-like thiol protease	0.4	7.9	21.3
		CPIJ002595	zinc carboxypeptidase	1.3	12.5	9.4
		CPIJ004640	trypsin 5G1	5.7	354.0	61.8
		CPIJ004984	serine protease1/2	1.1	29.8	26.0
		CPIJ005273	trypsin 2	2.7	76.8	27.9
		CPIJ006502	late trypsin	3.1	324.9	104.5
		CPIJ007025	FXa-directed anticoagulant	1.7	43.0	24.7
		CPIJ008388	aminopeptidase N	0.5	20.9	40.9
		CPIJ010521	serine protease inhibitor dipetalogastin	0.5	7.4	13.6
		CPIJ011998	zinc carboxypeptidase A 1	2.5	23.8	9.6
		CPIJ012161	sphingomyelin phosphodiesterase	1.0	42.5	42.6
		CPIJ014781	cysteine-rich protease inhibitor	0.5	26.2	55.8
		CPIJ016348	serine protease1/2	2.5	243.5	97.7
		CPIJ016937	coagulation factor X	1.3	37.5	29.6
		CPIJ017414	trypsin 4	0.3	19.6	68.3
		CPIJ017964	trypsin 7	0.3	13.0	51.6
		CPIJ017965	trypsin 7	0.5	10.0	19.5
		CPIJ018871	salivary apyrase; 5' nucleotidase	0.6	15.0	24.2
		CPIJ019168	salivary apyrase	1.3	12.0	9.6
		CPIJ020192	trypsin-like salivary secreted protein	0.4	14.6	36.0
	Metabolism	CPIJ017521	alpha-amylase I	5.7	180.2	31.6
		CPIJ011388	diazepam binding inhibitor	63.4	626.6	9.9
		CPIJ001082	cat eye syndrome critical region protein 1	3.0	36.6	12.3
		CPIJ005463	salivary lipase	1.0	13.3	12.8
		CPIJ006549	lipase member I	0.1	4.4	72.7
		CPIJ008977	pyridoxal phosphate phosphatase	12.5	247.6	19.7
		CPIJ012882	argininosuccinate synthase	1.4	20.0	14.2
		CPIJ016050	hepatic triacylglycerol lipase	0.2	7.9	32.9
		CPIJ017178	myoinositol oxygenase	14.5	155.4	10.7
		CPIJ018802	endochitinase A	0.3	4.7	16.1
		CPIJ000040	UDP-glucuronosyltransferase 2B1	2.1	51.6	24.1
		CPIJ015713	conserved hypothetical protein	8.8	84.8	9.6
		CPIJ019044	15.3 kDa basic salivary protein	1.5	67.3	46.2
		CPIJ000294	cytochrome P450 4C1	3.2	25.6	8.0
		CPIJ005952	cytochrome P450	11.9	339.4	28.4
		CPIJ009032	larval serum protein 2	1.9	22.7	12.2
		CPIJ010225	cytochrome P450 12b1, mitochondrial	1.7	15.0	9.0
		CPIJ010227	cytochrome P450 12b1, mitochondrial	2.8	32.0	11.5
		CPIJ010546	cytochrome P450 9c1	0.1	7.7	106.0
		CPIJ011837	cytochrome P450	5.1	58.3	11.4
		CPIJ011996	10-formyltetrahydrofolate dehydrogenase	3.4	62.5	18.3
		CPIJ012470	cytochrome P450 9b2	5.6	60.9	10.9
		CPIJ019586	cytochrome P450 6d3	2.2	19.2	8.7
		CPIJ019587	cytochrome P450 6d3	6.3	57.8	9.1
		CPIJ020018	cytochrome P450 6d3	7.1	70.8	10.0
		CPIJ000021	salivary protein	5.9	135.2	23.0
		CPIJ004030	venom allergen	0.6	8.2	13.5
		CPIJ015956	glycine N-methyltransferase	2.2	31.1	13.9
	No Annotation	CPIJ000835	chymotrypsin-2	5.6	111.7	20.0
		CPIJ001276	defensin-A	18.5	154.3	8.4

CPIJ001685	conserved hypothetical protein	0.8	15.2	19.0
CPIJ001686	conserved hypothetical protein	0.3	11.6	39.1
CPIJ002046	salivary protein	1.8	84.0	46.6
CPIJ002089	salivary protein	7.8	183.4	23.6
CPIJ002476	hypothetical protein	2.9	50.5	17.6
CPIJ002532	sodium-dependent multivitamin transporter	4.1	35.7	8.6
CPIJ003019	conserved hypothetical protein	1.4	21.9	15.3
CPIJ003054	conserved hypothetical protein	0.1	8.0	58.9
CPIJ003129	conserved hypothetical protein	1.6	14.0	8.5
CPIJ003456	uricase	5.1	91.6	18.1
CPIJ003468	hypothetical protein	151.1	3496.9	23.1
CPIJ003615	salivary protein	21.6	368.5	17.1
CPIJ003879	lipid storage droplets surface-binding protein 1	22.9	239.8	10.5
CPIJ004054	hypothetical protein	0.2	5.9	23.9
CPIJ004641	trypsin	0.5	135.2	286.0
CPIJ005906	conserved hypothetical protein	2.3	41.6	17.9
CPIJ005910	7.8 kDa basic salivary peptide	22.7	191.1	8.4
CPIJ006908	carboxylesterase-6	9.3	102.1	11.0
CPIJ007079	trypsin-1	70.9	928.5	13.1
CPIJ007333	amylase	2.9	65.2	22.4
CPIJ007452	8.9 kDa basic salivary peptide	12.0	311.6	26.0
CPIJ007471	oskar	2.1	44.9	21.7
CPIJ007646	conserved hypothetical protein	0.4	200.4	458.4
CPIJ007741	conserved hypothetical protein	5.3	42.9	8.1
CPIJ007742	30.5 kDa secreted protein 30.5k-1	3.5	40.0	11.5
CPIJ007838	chymotrypsin-2	3.4	36.4	10.8
CPIJ008014	oxidase/peroxidase	3.1	101.8	33.1
CPIJ008032	conserved hypothetical protein	0.8	7.6	9.9
CPIJ008464	hypothetical protein	0.3	69.0	235.6
CPIJ008471	hypothetical protein	6.8	269.7	39.5
CPIJ008479	9.7 kDa salivary peptide	6.4	146.7	22.9
CPIJ010046	threonine-rich salivary mucin	27.5	394.3	14.3
CPIJ010333	conserved hypothetical protein	1.5	26.0	17.6
CPIJ010337	hypothetical protein	2.9	1053.0	365.9
CPIJ010338	conserved hypothetical protein	4.6	684.0	149.2
CPIJ010339	conserved hypothetical protein	1.0	173.3	182.4
CPIJ010699	cecropin A	12.3	190.6	15.5
CPIJ010772	16 kDa salivary peptide	0.2	43.1	259.7
CPIJ010773	16.8 kDa salivary peptide	0.2	29.5	183.0
CPIJ010792	16.7 kDa salivary peptide	0.3	10.6	33.7
CPIJ011013	apyrase	2.8	24.5	8.8
CPIJ011505	conserved hypothetical protein	19.7	193.9	9.9
CPIJ012056	sodium-dependent serotonin transporter	2.5	56.8	22.4
CPIJ012254	conserved hypothetical protein	1.3	36.5	29.1
CPIJ012707	wnt inhibitory factor 1	3.6	108.3	30.4
CPIJ012708	wnt inhibitory factor 1	2.2	111.2	51.0
CPIJ012783	7.7 kDa salivary cysteine-rich peptide	2.0	34.5	17.6
CPIJ012900	als	1.4	20.5	14.8
CPIJ013450	hypothetical protein	0.2	5.0	20.9
CPIJ013702	17.2 kDa salivary peptide	8.7	136.2	15.6
CPIJ013705	conserved hypothetical protein	13.1	127.3	9.7
CPIJ013706	conserved hypothetical protein	11.0	129.7	11.8
CPIJ014402	hypothetical protein	0.2	13.1	75.5
CPIJ014545	short form D7clu32 salivary protein	1.0	13.3	13.7
CPIJ014861	conserved hypothetical protein	4.8	47.8	9.9
CPIJ015385	vitellogenin	0.3	54.3	158.5
CPIJ015502	16.8 kDa salivary protein	0.7	41.0	60.1
CPIJ015613	galactose-specific C-type lectin	2.4	124.0	51.8
CPIJ015614	galactose-specific C-type lectin	3.0	208.0	68.8
CPIJ015615	salivary C-type lectin	2.1	33.4	16.2
CPIJ015774	34 kDa salivary secreted protein 34k-2	0.3	4.8	16.8
CPIJ016318	larval cuticle protein 8.7	102.4	3783.8	37.0
CPIJ016702	calbindin-32	10.9	223.0	20.5
CPIJ016792	hypothetical protein	1.0	16.4	17.0
CPIJ016936	Trypsin	1.3	47.5	36.7

	CPIJ016972	salivary secreted protein 62k-3	1.0	14.2	14.8
	CPIJ017043	hypothetical protein	4.9	104.4	21.2
	CPIJ017044	hypothetical protein	1.9	91.3	47.5
	CPIJ017687	conserved hypothetical protein	4.6	81.3	17.8
	CPIJ017960	hypothetical protein	4.6	117.3	25.2
	CPIJ018205	chymotrypsin-2	2.2	23.0	10.3
	CPIJ018773	hypothetical protein	8348.3	68893.7	8.3
	CPIJ018872	salivary mucin	0.5	18.6	37.9
	CPIJ019040	15.8 kDa salivary peptide	12.9	313.1	24.4
	CPIJ019051	16.7 kDa salivary peptide	0.6	63.0	104.6
	CPIJ019052	13.1 kDa salivary protein	0.3	70.6	216.7
	CPIJ019055	17.5 kDa salivary peptide	0.4	60.8	137.1
	CPIJ019252	salivary mucin	0.3	32.7	96.0
	CPIJ019253	apyrase	0.2	9.3	42.8
	CPIJ019268	calbindin-32	14.8	237.5	16.0
	CPIJ019284	hypothetical protein	6.6	116.4	17.6
	CPIJ019552	calbindin-32	9.1	198.1	21.8
	CPIJ019905	hypothetical protein	10.5	886.2	84.7
	CPIJ019944	hypothetical protein	9.5	132.9	14.0
	CPIJ019945	hypothetical protein	6.9	101.9	14.7
Regulation	CPIJ010170	conserved hypothetical protein	0.3	4.9	17.6
	CPIJ010171	conserved hypothetical protein	0.1	1.3	15.5
	CPIJ013451	zinc finger protein	0.2	6.2	26.8
	CPIJ001084	low molecular weight protein-tyrosine-phosphatase	2.4	35.9	14.9
	CPIJ010312	conserved hypothetical protein	20.2	224.9	11.1
	CPIJ009440	cytoplasmic polyadenylation element binding protein	0.1	4.7	32.5
	CPIJ004145	predicted protein	1.5	18.8	12.8
	CPIJ007193	period circadian protein	9.1	89.2	9.9
	CPIJ010788	conserved hypothetical protein	12.1	98.2	8.1
	CPIJ014546	salivary short D7 protein 4	1.0	22.9	22.3
	CPIJ014550	long form D7Bclu1 salivary protein	1.1	19.8	17.6
	CPIJ014553	salivary long D7 protein 3	5.0	57.3	11.5
	CPIJ015944	predicted protein	0.3	8.4	30.8
Extra-cellular processes	CPIJ017322	conserved hypothetical protein	46.3	5.0	-9.2
General	CPIJ011014	peptidylglycine alpha-amidating monooxygenase COOH-terminal interactor protein-1	18.9	2.3	-8.3
	CPIJ000841	dimeric dihydrodiol dehydrogenase	420.9	10.6	-39.7
	CPIJ005895	conserved hypothetical protein	15.4	1.6	-9.4
	CPIJ013724	dimethylaniline monooxygenase	117.3	0.6	-186.6
	CPIJ017482	choline dehydrogenase	76.8	3.4	-22.7
	CPIJ017483	glucose dehydrogenase	27.2	0.3	-96.4
	CPIJ017487	glucose dehydrogenase	1.7	0.1	-23.8
Intra-cellular processes	CPIJ008515	cellular retinaldehyde binding protein	190.2	17.4	-10.9
	CPIJ008722	conserved hypothetical protein	90.2	9.4	-9.6
	CPIJ003915	chymotrypsin 1	166.1	0.5	-348.2
	CPIJ004215	conserved hypothetical protein	16.5	1.2	-13.6
	CPIJ004659	trypsin 7	5.0	0.1	-57.6
	CPIJ004660	trypsin 1	339.9	17.5	-19.4
	CPIJ012643	conserved hypothetical protein	57.1	1.4	-39.5
	CPIJ017794	220 kDa silk protein	13.8	1.4	-9.5
	CPIJ019781	trypsin 1	20.4	0.4	-47.1
	CPIJ011555	mitochondrial carrier protein	105.9	11.4	-9.3
Metabolism	CPIJ002066	alpha-galactosidase A	23.8	1.6	-15.0
	CPIJ010945	acidic mammalian chitinase	43.0	3.4	-12.7
	CPIJ002725	lipase 1	58.4	0.9	-67.8
	CPIJ004802	endothelial lipase	3.1	0.2	-15.9
	CPIJ013029	esterase FE4	1.9	0.1	-16.2
	CPIJ011840	cytochrome P450	33.6	0.9	-35.9
	CPIJ011841	cytochrome P450	34.7	1.9	-17.8
	CPIJ015954	cytochrome P450	14.8	1.6	-9.4
	CPIJ015960	cytochrome P450 4A6	152.1	14.1	-10.8
	CPIJ015961	cytochrome P450	37.0	2.5	-15.1
	CPIJ017484	glucose dehydrogenase	26.2	0.4	-67.3

	No Annotation	CPIJ000499	hypothetical protein	10.5	0.3	-30.6
		CPIJ001222	conserved hypothetical protein	252.2	2.0	-126.7
		CPIJ001839	cuticle protein	54.4	1.0	-56.9
		CPIJ002800	larval/pupal cuticle protein H1C	16.4	0.5	-31.9
		CPIJ002801	larval/pupal cuticle protein H1C	9.3	0.5	-17.6
		CPIJ003026	conserved hypothetical protein	13.6	0.2	-87.2
		CPIJ004287	conserved hypothetical protein	22.5	2.6	-8.6
		CPIJ004288	cuticle protein	8.8	0.7	-13.2
		CPIJ004290	cuticle protein	249.6	7.6	-32.8
		CPIJ004293	cuticle protein	88.7	2.8	-31.4
		CPIJ004475	conserved hypothetical protein	210.1	5.1	-41.3
		CPIJ005176	G12	11.3	0.3	-33.1
		CPIJ006327	metalloproteinase	29.1	0.4	-65.9
		CPIJ007055	SEC14	77.9	6.1	-12.9
		CPIJ007056	conserved hypothetical protein	71.0	4.8	-14.8
		CPIJ007448	conserved hypothetical protein	12.7	0.4	-28.8
		CPIJ008211	conserved hypothetical protein	270.1	0.8	-323.1
		CPIJ008231	pupal cuticle protein	123.2	4.3	-28.9
		CPIJ008286	serine protease	813.0	16.9	-48.2
		CPIJ008659	metalloproteinase	15.8	0.2	-95.0
		CPIJ008974	cuticle protein	28.6	0.9	-32.7
		CPIJ009098	conserved hypothetical protein	1444.0	24.9	-58.1
		CPIJ009099	conserved hypothetical protein	1853.0	57.2	-32.4
		CPIJ009207	conserved hypothetical protein	19.9	0.3	-74.2
		CPIJ009585	hypothetical protein	143.3	0.5	-265.3
		CPIJ011001	sulfotransferase	5.0	0.3	-19.1
		CPIJ012507	conserved hypothetical protein	104.1	2.0	-51.9
		CPIJ013663	elongase	179.3	9.9	-18.1
		CPIJ013764	cuticle protein 7	12.7	0.9	-14.9
		CPIJ013765	cuticle protein 18.6	44.4	2.0	-22.5
		CPIJ013931	conserved hypothetical protein	5.3	0.3	-16.0
		CPIJ014435	hypothetical protein	89.0	0.7	-120.9
		CPIJ014778	conserved hypothetical protein	39.4	3.0	-13.1
		CPIJ015291	hypothetical protein	8.3	0.1	-66.9
		CPIJ016716	conserved hypothetical protein	59.8	4.9	-12.2
		CPIJ017020	hypothetical protein	30.9	0.1	-268.6
		CPIJ017620	hypothetical protein	2100.1	8.7	-240.2
		CPIJ017806	conserved hypothetical protein	31.1	2.2	-14.3
		CPIJ017862	sulfotransferase	6.3	0.5	-12.8
		CPIJ018582	pupal cuticle protein	140.8	5.0	-27.9
		CPIJ018910	conserved hypothetical protein	64.9	5.7	-11.3
		CPIJ019396	hypothetical protein	267.8	23.7	-11.3
	Regulation	CPIJ012716	odorant-binding protein	134.0	2.8	-48.2
		CPIJ012719	general odorant-binding protein 56d	679.5	47.9	-14.2
		CPIJ012721	odorant-binding protein	59.0	1.0	-57.7
		CPIJ018956	general odorant-binding protein 56d	523.0	42.4	-12.3
12 v 24h	Extra-cellular processes	CPIJ018858	fibrinogen and fibronectin	4.1	70.7	17.2
		CPIJ002173	conserved hypothetical protein	6.2	60.0	9.6
		CPIJ014105	galactose-specific C-type lectin	1.7	24.1	13.8
	Information	CPIJ017289	conserved hypothetical protein	0.0	3.5	N/C*
	Intra-cellular processes	CPIJ000214	serpin B10	9.2	122.6	13.3
		CPIJ005273	trypsin 2	76.8	7233.8	94.2
		CPIJ011998	zinc carboxypeptidase A 1	23.8	321.9	13.5
		CPIJ014254	chymotrypsin BI	0.4	11.6	29.0
		CPIJ015161	chymotrypsin 1	0.1	24.6	172.0
		CPIJ015162	serine-type enodpeptidase	0.1	9.7	86.6
		CPIJ017414	trypsin 4	19.6	368.2	18.8
		CPIJ017964	trypsin 7	13.0	110.5	8.5
	Metabolism	CPIJ017575	low-density lipoprotein receptor	12.7	120.0	9.4
		CPIJ002715	lipase 3	0.4	9.8	23.4
		CPIJ001886	cytochrome P450 4C1	0.0	2.9	66.5
		CPIJ006840	CD109 antigen	0.4	4.7	10.9
	No Annotation	CPIJ000529	conserved hypothetical protein	0.1	3.5	60.6
		CPIJ000835	chymotrypsin-2	111.7	4177.6	37.4

		CPIJ001237	conserved hypothetical protein	3.2	32.4	10.0
		CPIJ004491	sodium/potassium/calcium exchanger 3	1.9	16.9	9.0
		CPIJ005637	conserved hypothetical protein	0.0	0.1	0.0
		CPIJ006087	sodium/solute symporter	1.3	15.1	11.9
		CPIJ008023	olfactory receptor	0.1	3.9	35.5
		CPIJ012164	conserved hypothetical protein	0.1	16.4	177.5
		CPIJ014969	caldecrin	2.4	33.1	13.7
		CPIJ015718	arginase	2.1	18.6	9.0
	Regulation	CPIJ015936	hypothetical protein	0.7	6.9	10.4
	Extra-cellular processes	CPIJ011368	f-box/lrr protein	69.9	2.1	-32.9
	Intra-cellular processes	CPIJ000521	sodium-dependent phosphate transporter	4.2	0.3	-12.5
		CPIJ010466	laccase-like multicopper oxidase 1	6.8	0.6	-12.3
		CPIJ016802	laccase-like multicopper oxidase 1	9.7	0.9	-10.4
		CPIJ011997	zinc carboxypeptidase A 1	68.8	1.2	-56.8
		CPIJ012680	ADAM 12	23.8	2.1	-11.2
		CPIJ016937	coagulation factor X	37.5	3.8	-9.9
	Metabolism	CPIJ000679	conserved hypothetical protein	142.5	14.0	-10.1
		CPIJ000680	conserved hypothetical protein	384.3	19.9	-19.3
		CPIJ007603	conserved hypothetical protein	325.4	25.3	-12.8
		CPIJ010945	acidic mammalian chitinase	3.4	0.3	-10.6
		CPIJ012316	conserved hypothetical protein	30.6	3.6	-8.6
		CPIJ005936	carbonic anhydrase II	9.9	0.2	-43.7
		CPIJ006311	conserved hypothetical protein	56.7	6.3	-9.0
		CPIJ011837	cytochrome P450	58.3	3.4	-17.0
	No Annotation	CPIJ000641	salivary asparagine-rich mucin	134.3	1.7	-79.1
		CPIJ001605	pro-resilin	37.8	1.6	-23.2
		CPIJ002016	conserved hypothetical protein	19.2	2.2	-8.9
		CPIJ003019	conserved hypothetical protein	21.9	0.8	-27.8
		CPIJ003030	adult cuticle protein	13.2	0.2	-57.7
		CPIJ003473	cuticle protein	337.4	16.8	-20.1
		CPIJ003474	cuticle protein	1824.0	129.9	-14.0
		CPIJ005336	conserved hypothetical protein	23.8	1.7	-14.0
		CPIJ006195	hypothetical protein	16.2	0.5	-33.3
		CPIJ006794	conserved hypothetical protein	141.5	15.8	-9.0
		CPIJ006796	conserved hypothetical protein	124.6	13.6	-9.2
		CPIJ006797	conserved hypothetical protein	196.3	20.1	-9.8
		CPIJ008231	pupal cuticle protein	4.3	0.3	-13.7
		CPIJ008489	conserved hypothetical protein	65.9	6.4	-10.3
		CPIJ009100	conserved hypothetical protein	586.3	21.4	-27.4
		CPIJ009334	conserved hypothetical protein	113.3	2.3	-48.9
		CPIJ010338	conserved hypothetical protein	684.0	55.7	-12.3
		CPIJ010705	conserved hypothetical protein	32.8	2.2	-14.9
		CPIJ012090	actin	373.3	24.4	-15.3
		CPIJ012641	pupal cuticle protein	18.6	0.5	-34.8
		CPIJ012973	conserved hypothetical protein	5.6	0.4	-15.1
		CPIJ013278	conserved hypothetical protein	31.8	0.6	-52.8
		CPIJ013783	pupal cuticle protein	31.9	1.7	-19.3
		CPIJ013785	conserved hypothetical protein	828.9	2.6	-321.8
		CPIJ015249	hypothetical protein	12.0	1.4	-8.4
		CPIJ015250	hypothetical protein	61.0	5.3	-11.5
		CPIJ016655	conserved hypothetical protein	733.3	45.9	-16.0
		CPIJ016702	calbindin-32	223.0	22.7	-9.8
		CPIJ016842	conserved hypothetical protein	16.4	1.2	-13.6
		CPIJ017736	conserved hypothetical protein	184.0	16.8	-11.0
		CPIJ017876	cuticle protein	306.8	13.5	-22.7
		CPIJ019699	structural contituent of cuticle	145.7	11.3	-12.9
		CPIJ019849	conserved hypothetical protein	13.9	1.5	-9.5
		CPIJ019982	conserved hypothetical protein	10.7	0.9	-11.5
	Regulation	CPIJ000274	conserved hypothetical protein	28.1	1.8	-15.3
		CPIJ011799	conserved hypothetical protein	15.7	1.7	-9.2
24 v 36h	Extra-cellular processes	CPIJ000931	conserved hypothetical protein	12.6	1.3	-9.7
		CPIJ011371	f-box/lrr protein	23.1	1.8	-12.8
	Information	CPIJ017289	conserved hypothetical protein	3.5	0.0	0.0
	Intra-cellular processes	CPIJ000214	serpin B10	122.6	4.4	-27.9

	No Annotation	CPIJ003470	hypothetical protein	2549.0	37.8	-67.5
		CPIJ003473	cuticle protein	16.8	0.5	-31.9
		CPIJ003474	cuticle protein	129.9	2.4	-53.9
		CPIJ003476	cuticle protein	1099.5	17.3	-63.7
		CPIJ003477	cuticle protein	1043.6	16.9	-61.7
		CPIJ009100	conserved hypothetical protein	21.4	1.7	-13.0
		CPIJ009101	hypothetical protein	80.5	6.0	-13.4
		CPIJ009111	conserved hypothetical protein	50.0	5.2	-9.6
		CPIJ012090	actin	24.4	2.5	-9.8
		CPIJ017874	hypothetical protein	490.3	9.7	-50.5
		CPIJ017875	hypothetical protein	1222.8	30.2	-40.5
		CPIJ018642	pupal cuticle protein	80.3	8.5	-9.4
		CPIJ018939	oxidoreductase	0.1	0.0	0.0
36 v 48h	Metabolism	CPIJ006495	conserved hypothetical protein	2.3	21.0	9.2
	Intra-cellular processes	CPIJ000990	cytosol aminopeptidase	6.6	0.1	-79.3
		CPIJ002595	zinc carboxypeptidase	19.0	0.1	-170.8
		CPIJ003539	cytosol aminopeptidase	6.2	0.0	-146.0
	Metabolism	CPIJ004028	venom allergen 3	14.2	0.4	-36.0
	No Annotation	CPIJ007077	trypsin-4	9.5	0.4	-26.2
		CPIJ010092	ficolin-3	15.2	0.3	-44.5
		CPIJ010778	conserved hypothetical protein	6.1	0.6	-10.5
		CPIJ011171	LWamide neuropeptides	47.7	0.3	-178.1
		CPIJ011620	conserved hypothetical protein	1.4	0.0	-63.2
		CPIJ016384	conserved hypothetical protein	12.2	0.2	-56.0
	Regulation	CPIJ015944	predicted protein	18.2	0.3	-57.2
48 v 60h	Intra-cellular processes	CPIJ000990	cytosol aminopeptidase	0.1	2.3	27.2
		CPIJ002595	zinc carboxypeptidase	0.1	18.2	163.7
		CPIJ003539	cytosol aminopeptidase	0.0	3.0	70.3
	Metabolism	CPIJ014185	conserved hypothetical protein	1.0	14.8	15.0
		CPIJ004028	venom allergen 3	0.4	12.6	31.9
	No Annotation	CPIJ007077	trypsin-4	0.4	9.6	26.5
		CPIJ010092	ficolin-3	0.3	9.0	26.5
		CPIJ011171	LWamide neuropeptides	0.3	38.8	144.9
		CPIJ016384	conserved hypothetical protein	0.2	15.0	68.8
	Regulation	CPIJ015944	predicted protein	0.3	7.7	24.1
60 v 72h	Intra-cellular processes	CPIJ002595	zinc carboxypeptidase	18.2	2.2	-8.4
	Metabolism	CPIJ009796	lipoprotein lipase	5.0	0.4	-12.0
	No Annotation	CPIJ001231	conserved hypothetical protein	10.7	0.2	-53.7
		CPIJ015506	hypothetical protein	60.2	3.0	-19.9
		CPIJ016394	nuclear pore complex protein Nup93	0.4	0.0	-23.7

†Structural Classification of Proteins (SCOP) database for the *Culex quinquefasciatus* database (v1.73). http://supfam.cs.bris.ac.uk/SUPERFAMILY/

‡Vectorbase annotation for the Johannesburg strain of *Cx. quniquefasciatus* JHBv1.2. http://www.vectorbase.org/

*[Paired end] Fragments Per Kilo bases of gene length per Million RNA-Seq reads mapped. Time 1 and 2 represent the earlier and later time points in the comparison, respectively.

**N/C= Not calculable