

**S2 Table. Top ten differentially-expressed genes between the male and female libraries.**

Unigene ID	Hit Number	Discription	FDR	Log2Ratio (20-25dM ale/20-25d Female)
CL46.contig2 <sup>a</sup>			0	17.63
Unigene10092 <sup>a</sup>	gi 131093 sp P17502.1	RecName: Full=Protamine	0	17.02
Unigene12361 <sup>a</sup>			0	16.72
Unigene3713 <sup>a</sup>			0	16.53
Unigene16134 <sup>a</sup>			5.09E-226	16.08
Unigene15385 <sup>a</sup>	gi 340729244 ref XP_003402916.1	PREDICTED: trypsin-7-like [ <i>Bombus terrestris</i> ]	0	15.57
Unigene10584 <sup>a</sup>			2.71E-178	15.29
Unigene13807 <sup>a</sup>	gi 189235559 ref XP_968512.2	similar to CG17377 CG17377-PA [ <i>Tribolium castaneum</i> ]	0	15.15
CL2694.contig 1 <sup>a</sup>	gi 307168676 gb EFN61712.1	Trypsin-1 [ <i>Camponotus floridanus</i> ]	0	14.95
Unigene6261 <sup>a</sup>			1.82E-193	14.93
Unigene2879 <sup>b</sup>			0	-16.73
Unigene9815 <sup>b</sup>			1.86E-163	-14.72
Unigene2890 <sup>b</sup>			0	-14.71
Unigene11733 <sup>b</sup>			2.91E-263	-14.55
CL235.contig3 <sup>b</sup>	gi 263191198 ref NP_001161084.1	chymotrypsin-like proteinase 6D precursor [ <i>Tribolium castaneum</i> ]	1.27E-212	-14.16
Unigene3672 <sup>b</sup>	gi 186396 gb AAA59163.1	mucin, partial [ <i>Homo sapiens</i> ]	6.11E-174	-14.12
Unigene3792 <sup>b</sup>	gi 325459340 gb ADZ13687.1	secretory eggshell protein precursor [ <i>Clonorchis sinensis</i> ]	2.78E-153	-13.40
Unigene6643 <sup>b</sup>	gi 471403978 ref XP_004384164.1	PREDICTED: protein PRRC2C [ <i>Trichechus manatus latirostris</i> ]	2.05E-100	-13.19
Unigene10980 <sup>b</sup>			5.21E-146	-13.17
CL2856.contig 1 <sup>b</sup>	gi 289191335 ref NP_001166054.1	serine protease 120 precursor [ <i>Nasonia vitripennis</i> ]	1.73E-95	-13.17
The corner marks of gene ID: ‘a’ represents up-regulated genes and ‘b’ represents down-regulated genes.				