

Supplemental Table 5

Significantly changed transcripts at Day 3 of Feeding

* raw p-values not adjusted for multiple comparisons, overall False Discovery Rate was 0.05

Contig	Annotation	Fold Change Day 3 v Unfed	p value* Day 3 v Unfed	Fold Change Day 3 v Day 1&2	p value* Day 3 v Day 1&2
1002	GYG rich peptide	-1.23788	0.0021126	1.4998	0.0002487
1063	similar to other tick proteins	2.044987	0.0001986	2.355641	0.0000264
1068	unknown	-1.31428	0.0005463	-1.15736	0.0004899
1070	putative serpin	1.811057	0.0049666	1.591148	0.0045908
1081	unknown	1.305024	0.0005583	1.102856	0.0006540
1082	putative secreted salivary gland peptide	6.268342	0.0000012	2.005059	0.0013435
1109	preprodefensin	4.953668	0.0000001	2.155409	0.0000148
1146	actin-5C - sperm individualization	3.322121	0.00000005	1.408943	0.0000116
1178	alpha crystallins	2.978071	0.0000001	1.458025	0.0000057
1245	putative secreted salivary gland peptide	7.012352	0.0000018	2.232695	0.0019325
1282	unknown	3.561716	0.0000004	1.185135	0.0004088
1284	adenosylhomocysteinase	2.796753	0.0002255	1.756186	0.0017800
1299	unknown	2.801641	0.0000057	1.248998	0.0006198
1303	unknown	1.967492	0.0000548	1.273823	0.0004079
1344	unknown	6.303622	0.0000013	2.938014	0.0001293
1359	glutathione S-transferase Mu 1	5.251235	0.00000003	1.842454	0.0000271
1362	cys rich could be truncated secreted	1.916339	0.0001117	1.647475	0.0001176
1364	unknown	5.35378	0.0000002	1.566062	0.0006374
1416	uncharacterized conserved protein	2.775962	0.0000424	1.209295	0.0037295
1440	unknown	1.289231	0.0002672	1.243621	0.0001276
1453	GYG peptide	4.838284	0.0000004	1.9119	0.0001278
1522	folate receptor alpha precursor	2.186928	0.0000266	1.264983	0.0004429
1532	unknown	5.264655	0.0000002	3.648981	0.0000009
1561	unknown	3.453012	0.0000001	1.137818	0.0001962
1562	NADP-dependent isocitrate dehydrogenase	1.545777	0.0024733	1.218796	0.0042199
1572	cuticle, possible	6.975054	0.0000001	3.433952	0.0000080
1597	gly-ala-tyr rich	7.692828	0.00000001	3.699913	0.0000012
1607	unknown	1.735367	0.0000128	1.054013	0.0001626
1631	unknown	1.914658	0.0000164	1.886171	0.0000063
1650	mitochondrial oxoglutarate/malate carrier proteins	1.190943	0.0049423	1.283727	0.0013900
1690	unknown	2.89473	0.0000390	1.323292	0.0026544
1700	prolyl 4-hydroxylase alpha subunit	1.682493	0.0003910	1.128217	0.0019626
1735	phosphoribosylamidoimidazole-succinocarboxamide synthase	1.410304	0.0010535	1.507575	0.0002677
1761	TIL protease inhibitor	5.467206	0.0000002	3.993011	0.0000007
1764	unknown	1.696652	0.0015490	1.321984	0.0028951
1765	tetraspanin family integral membrane protein	2.011619	0.0000118	1.037985	0.0004528
1769	unknown	7.141196	0.00000003	4.205307	0.0000007
1815	SNARE protein TLG1/Syntaxin 6	1.417294	0.0005320	1.540949	0.0001143
1853	lipocalin like protein	4.868493	0.0000202	4.095634	0.0000250
1869	unknown	2.418907	0.0004069	1.564402	0.0025169
1898	cuticle protein	5.882963	0.0000006	2.441108	0.0001493
1927	lysosomal membrane glycoprotein 1	2.353475	0.0001302	1.4317	0.0013281
1957	cysteine dioxygenase CDO1	3.20794	0.0001483	1.857398	0.0020058
1961	macrophage migration inhibitory factor	3.892266	0.0000251	1.705144	0.0023885
1980	unknown	3.150175	0.0000034	1.02689	0.0028108
2002	NADP-dependent isocitrate dehydrogenase	2.150691	0.0000026	1.038093	0.0001854
2025	unknown	2.704271	0.0000079	1.402941	0.0003067
2048	unknown	2.265157	0.0000098	1.382848	0.0001223
2071	unknown	3.094424	0.0003468	1.766709	0.0044534
2138	basic region leucine zipper transcription factor	2.731893	0.0001065	3.25071	0.0000107
2199	unknown	2.243136	0.0000148	1.224632	0.0003833
2207	cys rich - maybe truncated form of secreted peptide	3.040766	0.0000034	1.983652	0.0000279

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2214	unknown	1.428477	0.0002956	1.11585	0.0005840
2241	glycine rich	1.783529	0.0038769	2.525527	0.0001762
2308	unknown	2.718587	0.0000118	2.530184	0.0000069
2338	glycine/serine hydroxymethyltransferase	2.506945	0.0000086	1.455555	0.0001536
2355	unknown	1.385386	0.0000048	1.187717	0.0000047
2385	macrophage migration inhibitory factor	3.048818	0.0000001	1.240205	0.0000420
2424	cystatin	3.676323	0.0000003	1.790101	0.0000251
2466	sulfotransferase	2.32945	0.0000554	2.170294	0.0000327
2475	unknown conserved	1.264532	0.0024825	1.003058	0.0040957
2479	unknown	3.202273	0.0002262	2.808452	0.0002076
248	alkyl hydroperoxide reductase	4.385355	0.0000100	2.120362	0.0006000
2490	unknown	3.302956	0.0000028	1.928141	0.0000516
2515	unknown	3.010787	0.0000098	2.538006	0.0000120
2576	unknown	2.971461	0.0006847	2.292035	0.0014152
2577	zonadhesin	6.375225	0.0000001	2.050247	0.0000297
2580	truncated putative secreted salivary gland peptide	2.167617	0.0007851	1.421794	0.0041343
2603	sulfotransferase	2.710239	0.0001373	1.785654	0.0008468
2631	unknown conserved	2.690973	0.0000033	1.594278	0.0000545
2653	sulfate/bicarbonate/oxalate exchanger SAT	1.084029	0.0063301	1.291201	0.0009960
2664	cuticle, possible	5.411382	0.0000008	2.188954	0.0002227
2667	unknown	3.80666	0.0000061	1.63895	0.0008233
2720	procollagen-proline	1.383652	0.0060376	1.705948	0.0007568
2744	unknown	1.243304	0.0064760	1.087493	0.0061438
2754	unknown	1.045627	0.0017239	1.178911	0.0003210
2765	ribonuclease, T2 family	2.420915	0.0000181	1.55146	0.0001557
2783	glutathione S-transferase	2.183695	0.0000113	1.339747	0.0001350
2802	unknown	4.268906	0.0000266	1.595456	0.0060613
2839	FKBP-type peptidyl-prolyl cis-trans isomerase	2.281959	0.0000049	1.20476	0.0001762
2850	actin-5C - sperm individualization	3.960302	0.0000007	1.197012	0.0013340
2870	unknown	1.1303	0.0012562	1.229731	0.0002878
2907	Sulfotransferase	1.618027	0.0045371	1.86934	0.0008180
2940	serpin	4.353355	0.0000776	2.632279	0.0008705
2957	Gly-ala-tyr rich	6.414716	0.0000002	3.069652	0.0000179
2974	sterol O-acyltransferase 2	1.861134	0.0045622	1.832674	0.0021930
2997	unknown	3.550121	0.0000024	1.679311	0.0001997
3017	ornithine decarboxylase antizyme	1.555438	0.0001233	1.178934	0.0003069
3024	unknown	2.427633	0.0000269	1.175617	0.0013834
420	peritrophin	2.936417	0.0000034	2.346491	0.0000062
469	putative secreted protease inhibitor	4.085895	0.0000288	3.126128	0.0000702
470	putative secreted protease inhibitor	5.492296	0.0000004	3.532873	0.0000040
476	unknown	3.110036	0.0000011	1.078021	0.0007554
478	possible cuticle protein	7.379974	0.0000002	3.909745	0.0000009
479	Gly-ala-tyr rich	5.204162	0.0000244	2.899328	0.0005253
480	cuticle?	4.78326	0.0000160	2.897808	0.0002038
502	DNA-binding nuclear protein p8	4.11674	0.0000008	2.542891	0.0000107
513	GGY Neuropeptide-Like Protein	2.177832	0.0000103	2.062481	0.0000053
575	mucin/peritrophin-like protein precursor	6.007054	0.0000003	1.732197	0.0008595
577	B-cell receptor-associated protein and related proteins	1.574172	0.0015716	1.268574	0.0024140
580	Cu2+/Zn2+ superoxide dismutase SOD1	2.544627	0.0000025	1.644172	0.0000220
661	tetraspanin family integral membrane protein	2.247946	0.0000552	1.776935	0.0001054

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664	actin-5C - sperm individualization	2.629956	0.0000002	1.255373	0.0000148
688	TIL protease inhibitor	2.191892	0.0067538	2.032136	0.0046847
690	Gly-ala-tyr rich	6.471417	0.0000002	2.925143	0.0000286
719	nucleolin; protein C23	-2.47229	0.0000009	-1.79953	0.0000034
740	unknown	1.690882	0.0000100	1.571368	0.0000059
763	low complexity protein	4.684648	0.0000217	1.714627	0.0058455
776	Gly-ala-tyr rich	5.370094	0.0000010	-1.24988	0.0074117
807	alkyl hydroperoxide reductase	4.687832	0.0000001	1.362221	0.0003711
861	unknown	2.381331	0.0000507	2.04134	0.0000546
876	mucin	3.668998	0.0000086	2.136502	0.0001509
877	enoyl-CoA hydratase	2.403887	0.0000633	1.025801	0.0056853
902	fructose-biphosphate aldolase	2.531766	0.0000014	1.503732	0.0000242
903	glutathione S-transferase Mu 1	3.851856	0.00000003	1.027692	0.0001916
933	unknown	2.239015	0.0000506	1.355377	0.0005889
974	mitochondrial chaperonin	2.83367	0.0000001	-1.2376	0.0000195