

Supplementary Table 3. Differentially expressed genes between bees with hygienic behavior (HA) and control group (NA).

Gene name	Fold change	P-value	Gene description
LOC726783	-30.29	9.4E-06	vitellogenin
LOC408544	-15.27	7.5E-06	lysyl oxidase homolog 4
LOC724899	-15.11	3.1E-07	lysozyme
LOC409715	-13.83	1.4E-05	bumetanide-sensitive sodium-(potassium)-chloride cotransporter
LOC408864	-7.31	7.0E-05	waprin-Phi 1
LOC552578	4.53	1.3E-04	uncharacterized protein LOC552578
LOC726294	4.59	4.0E-05	orcokinin peptides precursor
LOC726262	5.42	2.0E-05	adenylate cyclase type 8-like
LOC725646	5.74	9.6E-05	N-acetylneuraminase lyase-like
LOC413558	5.85	9.5E-05	photoreceptor-specific nuclear receptor
LOC725164	5.98	3.9E-05	serine-rich adhesin for platelets-like
LOC724114	7.61	9.0E-05	uncharacterized protein
LOC409060	7.65	2.0E-04	golgin subfamily A member 6-like protein 22
LOC725381	8.05	6.3E-05	uncharacterized protein LOC725381
LOC409781	8.83	7.7E-05	uncharacterized protein LOC409781
TpnCI	8.88	5.2E-06	troponin C type I
LOC727110	9.68	1.8E-04	major royal jelly protein 1
LOC551259	10.15	5.2E-05	titin
LOC113218812	10.32	1.9E-06	protein anoxia up-regulated-like
LOC726421	11.78	3.2E-05	membrane metallo-endopeptidase-like 1
LOC551176	12.15	4.3E-05	actin, clone 205-like
LOC410058	12.29	1.4E-05	myosin light chain alkali
LOC409709	12.97	3.0E-05	putative glucosylceramidase 4
Apid1	14.26	1.1E-04	apidaecins type 14 precursor
LOC100576555	14.45	2.0E-04	cytochrome b561 domain-containing protein 2-like
LOC100578822	14.98	4.5E-09	uncharacterized protein LOC100578822
LOC408414	16.01	8.4E-07	tropomyosin-1
LOC409821	17.56	2.8E-06	twitchin
LOC113218867	17.86	8.0E-06	paramyosin, short form-like
LOC409881	18.34	2.5E-05	myosin regulatory light chain 2
LOC409787	19.53	2.1E-05	paramyosin, long form-like
LOC413936	20.15	7.3E-05	uncharacterized protein LOC413936
LOC100576703	20.51	3.5E-05	sarcalumenin
LOC725114	20.59	5.2E-05	chymotrypsin inhibitor
TpnCIIIa	20.72	1.8E-08	troponin C type IIIa
Mrjp6	22.80	2.9E-06	major royal jelly protein 6 precursor
CSP1	23.00	4.4E-06	chemosensory protein 1 precursor
LOC409805	23.58	2.1E-07	uncharacterized protein LOC409805
LOC409843	25.58	1.5E-07	myosin heavy chain, muscle
LOC552829	27.11	2.0E-04	phospholipase B1, membrane-associated-like
LOC411285	31.14	5.5E-08	muscle LIM protein Mlp84B-like
LOC406142	34.96	5.5E-06	hymenoptaecin preproprotein

LOC408972	40.05	4.3E-09	muscle-specific protein 20
TpnT	41.72	2.7E-08	troponin T, skeletal muscle
Melt	42.54	2.9E-06	melittin precursor
TpnI	49.16	4.4E-10	troponin I
LOC406114	72.92	5.8E-08	alpha-amylase precursor
LOC408608	111.05	1.0E-05	uncharacterized protein LOC408608
LOC408532	728.87	2.7E-05	myophilin
