



**Table S1. Differentially expressed nuclear-encoded mitochondrial genes in honey bees consuming bee candy with and without 0.25 mM quercetin (identified from the genes in clusters 2–4 of DAVID functional annotation clustering analysis of the 1,612 DEGs between control and 0.25 mM quercetin treatment)**

Group/category	logFC	logCPM	P value	False discovery rate	Gene name	
I	GB40810	-0.69909	5.402091	0.000115	0.001503	Mitochondrial transmembrane protein 70 (TMM70)
II	GB46026	-0.61376	7.521537	7.76E-06	0.000213	Translocase of outer membrane 70 (TOM70)
	GB41686	-0.83581	5.086601	1.24E-05	0.000304	Translocase of outer membrane 7 (TOM7)
	GB52009	-0.46277	4.993231	0.001215	0.007815	Mitochondrial import inner membrane translocase subunit Tim22
	GB51224	-0.89028	5.725054	7.53E-07	3.72E-05	Mitochondrial import inner membrane translocase subunit Tim8
	GB41303	-1.55119	4.453304	6.86E-08	5.60E-06	Mitochondrial import inner membrane translocase subunit Tim13
	GB48338	-0.8348	4.716947	1.15E-06	5.19E-05	Mitochondrial import inner membrane translocase subunit Tim9
	GB41210	-0.92735	3.023617	1.41E-05	0.000329	Mitochondrial import inner membrane translocase subunit Tim9B
	GB45523	-0.46461	6.193456	0.000237	0.002509	Mitochondrial import inner membrane translocase subunit Tim10
	GB51425	-0.5886	5.156958	0.000215	0.002337	S-adenosylmethionine mitochondrial carrier protein
III	GB51124	-0.7261	5.72987	1.26E-06	5.66E-05	Mitochondrial DNA-directed RNA polymerase
	GB44671	-0.60222	3.600628	0.000483	0.004189	Mitochondrial transcription factor B2
	GB48641	-0.57184	7.087967	0.000261	0.002698	Mitochondrial ribosomal protein L9
	GB41068	-0.47664	5.810876	0.000448	0.003979	Mitochondrial ribosomal protein L12
	GB45419	-0.42757	5.241461	0.001351	0.008482	Mitochondrial ribosomal protein L15
	GB54344	-0.50983	5.53275	0.000473	0.004153	Mitochondrial ribosomal protein L20
	GB56016	-0.55226	6.323073	0.000456	0.004036	Mitochondrial ribosomal protein L30
	GB46453	-1.24915	1.399884	4.26E-05	0.000734	Mitochondrial ribosomal protein L33
	GB42615	-0.66194	4.763463	9.05E-05	0.001275	Mitochondrial ribosomal protein L36
	GB45886	-1.39102	0.728716	0.001157	0.007562	Mitochondrial ribosomal protein L38
	GB40535	-1.14895	0.855782	8.71E-05	0.001251	Mitochondrial ribosomal protein L48
	GB44877	-0.903	6.025927	1.79E-05	0.0004	Mitochondrial ribosomal protein L49
	GB50746	-2.12237	1.533952	5.90E-08	4.90E-06	Mitochondrial ribosomal protein L52
	GB48201	-0.74085	5.835489	0.000245	0.002577	Mitochondrial ribosomal protein L53
	GB46748	-0.74646	6.098186	0.000163	0.0019	Mitochondrial ribosomal protein L54
	GB54312	-1.31916	4.571064	1.10E-05	0.000276	Mitochondrial ribosomal protein L55
	GB53663	-0.95587	5.444343	1.16E-05	0.000288	Mitochondrial GTPase Era
	GB50804	-0.68672	5.019691	0.00079	0.005849	Mitochondrial ribosomal protein S9
	GB51537	-0.47101	5.079988	0.000683	0.005287	Mitochondrial ribosomal protein S11
	GB41359	-0.85848	5.771637	0.000336	0.003233	Mitochondrial ribosomal protein S14
	GB48064	-0.82279	6.018325	4.10E-05	0.000711	Mitochondrial ribosomal protein S15
	GB43537	-0.66769	5.525932	0.000471	0.004137	Mitochondrial ribosomal protein S16
	GB54652	-0.61878	6.022327	0.000569	0.004696	Mitochondrial ribosomal protein S18C

## Other Supporting Information Files

[Dataset S1 \(XLS\)](#)

[Dataset S2 \(XLS\)](#)

[Dataset S3 \(XLS\)](#)

[Dataset S4 \(XLSX\)](#)