

Table S2 *Megachile rotundata* post-diapause down-regulated transcripts

Megachile transcripts	locus	Diapause (D)	post diapause (PD)	(PD/D) log2(fold_change)	test_stat	p_value	q_value	Hit accession	Sequence desc.	Species	E-Value
MROT_00000046	scaffold105:673949-675557	520.735	239.24	-1.12209	3.62461	0.0002894	0.0052131	NP_001152775	vitellogenin carboxypeptidase	Apis mellifera	0
MROT_00000056	scaffold105:724565-730521	1032.77	192.389	-2.42442	5.71971	1.07E-06	1.19E-06	XP_001121939	melanization-related protein	Apis mellifera	0
MROT_00000095	scaffold105:1487491-1492758	18.3067	4.95313	-1.88596	3.63621	0.0002767	0.0050795	XP_003400329	roporin-1-like protein	Bombus terrestris	1.00E-157
MROT_00000114	scaffold105:1696671-1697112	721.31	128.763	-2.4859	7.22952	4.85E-13	1.78E-10	XP_003487633	lysosome c-1	Bombus impatiens	5.45E-73
MROT_00000230	scaffold105:5046511-5049742	212.433	92.2776	-1.20296	4.06444	4.81E-05	0.001301	XP_001120306	spermidine synthase	Apis mellifera	7.20E-157
MROT_00000236	scaffold105:5337642-5389888	9.88201	2.0069	-2.29983	3.16552	0.0015481	0.0176548	XP_640850	hypothetical protein	Dictyostelium discoideum AX4	2.40E+00
MROT_00000298	scaffold93:667274-678853	52.2792	10.1883	-2.35932	6.85594	7.08E-12	2.19E-09	EG161794	cytochrome p450 9e2	Acromyrmex echinator	1.15E-166
MROT_00000347	scaffold93:1399382-1401911	50.9192	15.0637	-1.75713	4.86138	1.17E-06	6.72E-05	XP_003491568	chitinase	Bombus impatiens	0
MROT_00000424	scaffold93:2897142-2906169	5.05765	2.12878	-1.24844	2.83573	0.0045722	0.0400092	XP_003396001	teneurin-3-like isoform 1	Bombus terrestris	0
MROT_00000455	scaffold93:4247728-4283064	7.53411	1.40643	-2.4214	5.79793	6.71E-09	8.13E-07	EG165497	isoform f	Acromyrmex echinator	0
MROT_00000457	scaffold93:4329100-4355879	7.88375	1.9343	-2.02707	3.749	0.0001775	0.0036685	XP_003251209	neurobeachin	Apis mellifera	0
MROT_00000466	scaffold93:4872624-4882876	16.156	7.96227	-1.02082	2.75563	0.005858	0.0473239	XP_003396028	amphotericin-induced protein 1-like	Bombus terrestris	0
MROT_00000580	scaffold67:696942-705398	34.4684	3.74411	-3.20258	7.91828	2.44E-15	1.30E-12	XP_003488176	fatty acid synthase	Bombus impatiens	0
MROT_00000608	scaffold67:1268914-1283323	237.634	80.9265	-1.55405	4.73046	2.24E-06	0.0001134	XP_003249242	serine proteinase stubble	Apis mellifera	0
MROT_00000630	scaffold67:2004249-2008621	169.476	67.0398	-1.33799	4.54452	5.51E-06	0.000244	EFN79539	cytochrome p450	Harpegnathos saltator	0
MROT_00000644	scaffold67:2518455-2522164	141.374	66.1383	-1.09596	3.88625	0.0001018	0.0024094	XP_003397370	uncharacterized family 31 glucosidase kaa1161	Bombus terrestris	0
MROT_00000679	scaffold67:2865645-2867715	377.947	136.808	-1.46603	4.84758	1.25E-06	7.10E-05	XP_003397389	aldehyde dehydrogenase	Bombus terrestris	0
MROT_00000683	scaffold67:2946563-2950280	18.7719	7.07676	-1.40742	3.14341	0.0016699	0.0188943	XP_003403288	glucose dehydrogenase	acceptor-like	0
MROT_00000705	scaffold67:3180439-3186626	161.309	40.2471	-2.00287	5.94312	2.80E-09	3.88E-07	XP_003488190	plexin b	Bombus impatiens	0
MROT_00000724	scaffold67:3384399-3397734	263.204	55.2546	-2.25201	6.6601	2.74E-11	6.71E-09	XP_396693	carboxylesterase 5a-like	Apis mellifera	0
MROT_00000738	scaffold67:3760860-3766275	9.44123	2.63411	-1.84166	3.09666	0.0019571	0.0211118	XP_003249566	PREDICTED: hypothetical protein LOC100577098	Apis mellifera	4.62E-101
MROT_00000747	scaffold67:4002491-4042728	14.6702	5.5736	-1.39621	3.08251	0.0020526	0.0218634	XP_003397183	carbonic anhydrase-related protein 10-like	Bombus impatiens	0
MROT_00000771	scaffold67:4514651-4521500	26.7228	4.72215	-2.50056	4.59123	4.41E-06	0.0002046	EG164388	beat- isoform c	Acromyrmex echinator	2.47E-97
MROT_00000782	scaffold67:4917552-4927730	533.363	249.09	-1.09845	3.37677	0.0007334	0.0105333	XP_003249225	peroxidase-like isoform 1	Apis mellifera	0
MROT_00000803	scaffold279:255591-266532	254.836	122.476	-1.05707	3.76473	0.0001667	0.0035126	XP_003398226	PREDICTED: hypothetical protein LOC100650653	Bombus terrestris	7.12E-43
MROT_00000825	scaffold279:334618-336153	111.982	51.7671	-1.11315	3.77166	0.0001622	0.0034469	EFZ13643	succinic semialdehyde dehydrogenase	Solenopsis invicta	3.38E-146
MROT_00000887	scaffold279:2441426-2450808	201.287	50.2178	-2.00299	6.44697	1.14E-10	2.48E-08	XP_003488382	sodium hydrogen exchanger 9 ( nhe9)	Bombus impatiens	0
MROT_00000935	scaffold279:2803013-2805633	339.044	151.61	-1.16111	3.62704	0.0002867	0.0052034	XP_003489126	placental protein 11	Bombus impatiens	3.00E-175
MROT_00001120	scaffold279:4526620-4528669	27.792	10.088	-1.46203	3.28251	0.0010289	0.0132452	XP_003398526	isovaleryl- mitochondrial	Bombus terrestris	0
MROT_00001171	scaffold138:610424-613002	1657.91	536.383	-1.62803	4.05262	5.06E-05	0.0013608	EG159583	filaggrin 2	Acromyrmex echinator	2.50E-101
MROT_00001191	scaffold138:2109795-2119577	13.6655	5.98479	-1.19116	2.75988	0.0057822	0.0470298	XP_624524	latrophilin cfr-like isoform 1	Apis mellifera	0
MROT_00001226	scaffold138:3598585-3616961	7.61326	2.35285	-1.6941	3.08207	0.0020557	0.0218714	EEZ97972	glutamate ionotropic kainate 2	Tribolium castaneum	0
MROT_00001232	scaffold138:4151133-4157921	21.6595	8.07366	-1.4237	4.46812	7.89E-06	0.0003198	XP_003488009	plexin a	Bombus impatiens	0
MROT_00001233	scaffold138:4497083-4498361	14.1078	4.55963	-1.62951	3.12194	0.0017966	0.0199592	XP_003488009	plexin a	Bombus impatiens	0
MROT_00001308	scaffold2:746695-756392	22.5235	2.78666	-2.78666	3.48563	0.000491	0.0078143	XP_001121189	upf0489 protein c5orf22 homolog	Apis mellifera	5.55E-65
MROT_00001451	scaffold2:4515461-4520382	406.411	170.623	-1.25213	3.69152	0.0002229	0.0044135	XP_003487783	ribose-phosphate pyrophosphokinase 1-like isoform 1	Bombus impatiens	0
MROT_00001484	scaffold44:1056144-1064033	223.514	76.227	-1.55199	4.92562	8.41E-07	5.09E-05	XP_393153	sorbin and sh3 domain-containing protein 1	Apis mellifera	0
MROT_00001494	scaffold44:1956521-1956889	78.119	3.10778	-4.65172	4.02023	5.81E-05	0.001532	XP_003403024	serine protease inhibitor 3-like	Bombus terrestris	2.73E-09
MROT_00001509	scaffold44:2592890-2616136	194.846	83.7137	-1.2188	3.65539	0.0002568	0.0048161	EG165437	cytochrome p450 6k1-like	Acromyrmex echinator	0
MROT_00001527	scaffold44:3901438-3915844	28.8998	10.1442	-1.5104	3.62762	0.000286	0.0052016	XP_003399469	moxd1 homolog 2-like	Bombus terrestris	0
MROT_00001528	scaffold44:4283936-4285787	1109.57	37.6293	-4.882	9.42551	0	0	2751	hypothetical protein	Garcinia mangostana	7.2
MROT_00001529	scaffold44:4290515-4291952	2542.92	96.0352	-4.72678	8.36885	0	0	XP_001600422	PREDICTED: hypothetical protein LOC100115799	Nasonia vitripennis	8.51E-12
MROT_00001660	scaffold30:1228047-1229072	6743.53	2083.78	-1.6943	4.13321	3.58E-05	0.0010184	NP_001107670	dna recombination protein	Apis mellifera	1.12E-98
MROT_00001792	scaffold27:1259111-1260753	122.682	41.3816	-1.56786	3.58995	0.0003307	0.0057835	NA	NA	NA	NA
MROT_00001803	scaffold27:1361398-1365866	6.5741	4.37051	-4.14921	4.22655	2.37E-05	0.000737	XP_003397783	organic solute transporter alpha-like	Bombus terrestris	1.19E-153
MROT_00001815	scaffold27:1841898-1850734	265.037	72.0516	-1.87909	5.86222	4.57E-09	5.90E-07	EFZ18969	methyltransferase-like protein 6	Solenopsis invicta	3.08E-110
MROT_00001836	scaffold27:2522208-2544178	23.1299	6.50692	-1.82971	5.33837	9.38E-08	7.97E-06	XP_003487327	neuroigin- x-linked	Bombus impatiens	0
MROT_00001852	scaffold27:3084400-3085484	122.43	35.6491	-1.78003	5.0125	5.37E-07	3.54E-05	XP_003492340	nicotinic acetylcholine receptor a9 subunit	Bombus impatiens	1.34E-129
MROT_00001853	scaffold27:3085869-3086393	189.621	64.4036	-1.55791	3.62071	0.0002938	0.0052822	XP_003397878	neuronal acetylcholine receptor subunit alpha-10-like	Bombus terrestris	3.11E-42
MROT_00001938	scaffold18:9004-10675	34.5431	4.71086	-2.87433	3.01251	0.002591	0.0261975	EFN62337	autophagy-related protein 16-1-like	Camponotus floridanus	1.71E-52
MROT_00002043	scaffold29:298177-303068	23.0411	7.02681	-1.71327	2.37361	0.0010618	0.0135599	NP_001011652	troponin isoform 1-like	Apis mellifera	4.09E-92
MROT_00002061	scaffold29:826082-859634	0.808296	0.139313	-2.53655	3.33008	0.0008682	0.0118465	XP_003400011	agrin	Bombus terrestris	0
MROT_00002152	scaffold29:3153910-3165842	15.613	5.18965	-1.58904	3.7495	0.0001772	0.0036685	XP_003486833	mariner mos1 transposase	Bombus impatiens	0
MROT_00002154	scaffold29:3192657-3198717	39.9031	10.9963	-1.85948	4.13848	3.50E-05	0.0009982	XP_003486831	speckle-type poz protein	Bombus impatiens	0
MROT_00002166	scaffold29:3342342-3352026	7.35869	1.82912	-2.0083	3.11087	0.0018654	0.020389	XP_003394575	monocarboxylate transporter 9	Bombus terrestris	4.09E-165
MROT_00002167	scaffold29:3353970-3362322	18.9213	0.894536	-4.40273	6.23181	4.61E-10	8.32E-08	NP_001165993	cytochrome p450 4g15	Nasonia vitripennis	6.40E-139
MROT_00002200	scaffold23:79442-81890	263.519	131.344	-1.00456	3.40191	0.0006692	0.0099233	EFZ15795	phosphoglycerate kinase	Solenopsis invicta	0
MROT_00002239	scaffold23:300517-303801	514.803	195.213	-1.39897	4.21119	2.54E-05	0.0007719	XP_392398	solute carrier family facilitated glucose transporter member 1	Apis mellifera	0
MROT_00002252	scaffold23:402707-405498	2038.82	994.3	-1.03599	2.77378	0.0055409	0.0455707	XP_003489564	cathepsin l	Bombus impatiens	0
MROT_00002283	scaffold23:767910-768942	723.917	262.001	-1.46625	4.66141	3.14E-06	0.0001509	XP_003402153	slit homolog 3	Bombus terrestris	6.00E-155
MROT_00002308	scaffold23:2342548-2344723	62.4613	17.1094	-1.86818	4.14951	3.33E-05	0.0009746	XP_001621948	hypothetical protein	Nematostella vectensis	1.63E-07
MROT_00002329	scaffold23:3134460-3158260	4.7881	0.690401	-2.79395	4.11795	3.82E-05	0.0010731	XP_001120442	elongation of very long chain fatty acids protein aael008004-like	Apis mellifera	4.65E-124
MROT_00002378	scaffold72:1069107-1076228	8.65314	1.39853	-2.62932	4.36566	1.26E-05	0.0004608	XP_003494747	solute carrier family 41 member 2-like	Bombus impatiens	0
MROT_00002409	scaffold72:2093047-2100284	488.064	76.516	-2.67324	7.78904	6.66E-15	3.35E-12	XP_003393867	cytochrome p450 9e2-like	Bombus terrestris	0
MROT_00002450	scaffold72:2963042-2964676	104.195	35.498	-1.55343	4.08885	4.34E-05	0.0011915	XP_003490867	upf0670 protein cg4666-like	Bombus impatiens	2.05E-105
MROT_00002548	scaffold126:794761-821573	23.2824	8.42149	-1.46709	4.96732	7.15E-07	4.47E-05	XP_397010	tyrosine-protein phosphatase lar	Apis mellifera	0
MROT_00002634	scaffold126:2025569-2030979	32.4618	13.5576	-1.25964	4.11834	3.82E-05	0.0010731	XP_392015	chloride channel protein 2	Apis mellifera	0
MROT_00002777	scaffold104:579679-584910	17.1379	2.50678	-2.77328	4.46661	7.95E-06	0.0003207	EFN85122	fatty acid	Harpegnathos saltator	5.37E-85
MROT_00002890	scaffold8:1231348-1231919	150.81	50.3233	-1.58343	3.55468	0.0003784	0.0064294	XP_001121279	adp-ribosylation factor-like protein 6-interacting protein 1-like	Apis mellifera	2.74E-21
MROT_00002891	scaffold8:1232741-1234601	89.6313	37.366	-1.26228	4.23073	2.03E-05	0.0007281	XP_623134	peroxisomal membrane protein 11b	Apis mellifera	3.54E-85
MROT_00003045	scaffold58:2334042-2339031	74.2182	31.0593	-1.25675	4.35634	1.32E-05	0.0004756	XP_003492814	phospholipase d1	Bombus impatiens	0
MROT_00003105	scaffold175:1926603-1933009	4.30422	0.554019	-2.95774	3.60224	0.0003355	0.005609	XP_001121992	neither inactivation nor afterpotential protein g-like	Apis mellifera	5.94E-127
MROT_00003126	scaffold175:2394327-2401102	56.5552	23.3962	-1.27339	4.45391	8.43E-06	0.0003372	XP_393388	probable multidrug resistance-associated protein lethal 03659-like	Apis mellifera	0
MROT_00003234	scaffold22:78979-81023	358.659	178.608	-1.00581	3.2						

MROT_00003618	scaffold48:2065375-2066946	82.1353	39.4454	-1.05815	3.14848	0.0016412	0.0185999	XP_003393622	delta( )-delta( )-dienoyl- mitochondrial-like	Bombus terrestris	1.21E-152
MROT_00003621	scaffold48:2092783-2098951	9.46821	3.90587	-1.27745	2.82713	0.0046968	0.040727	XP_003485485	fibulin 1 and	Bombus impatiens	0
MROT_00003622	scaffold124:13785-18238	120.215	57.3545	-1.06763	3.77293	0.0001613	0.0034371	XP_003486484	protein unzipped	Bombus impatiens	0
MROT_00003677	scaffold124:200449-205481	41.3243	14.5359	-1.50737	2.88691	0.0038904	0.0353724	XP_003485285	PREDICTED: hypothetical protein LOC100748238 isoform 1	Bombus impatiens	1.87E-80
MROT_00003736	scaffold124:2294197-2303899	691.615	210.705	-1.71475	4.84563	1.26E-06	7.10E-05	XP_003394564	PREDICTED: hypothetical protein LOC100647892	Bombus terrestris	1.25E-14
MROT_00003742	scaffold4:184590-284237	7.89952	2.87278	-1.45932	3.65019	0.000262	0.0048941	XP_003396817	phd finger transcription factor	Bombus terrestris	0
MROT_00003892	scaffold471:845603-855088	81.0039	35.3156	-1.19769	4.26669	1.98E-05	0.0006582	NP_001035347	ecdysone 20-monooxygenase-like	Apis mellifera	0
MROT_00003917	scaffold471:1017320-1020635	278.955	118.082	-1.24025	3.81965	0.0001336	0.0029796	XP_003492760	cysteine proteinase cg12163	Bombus impatiens	0
MROT_00003955	scaffold471:1504447-1505878	169.361	78.4641	-1.11	3.93097	8.46E-05	0.0020857	XP_003492773	trans- -enoyl- reductase-like	Bombus impatiens	0
MROT_00003974	scaffold471:1706212-1719614	212.99	104.593	-1.026	3.5257	0.0004224	0.0069929	EFZ16198	nuclear receptor coactivator 7	Solenopsis invicta	0
MROT_00003986	scaffold471:1896749-1898644	40.8351	16.7926	-1.28199	3.14319	0.0016712	0.0188943	XP_625272	PREDICTED: hypothetical protein LOC551993	Apis mellifera	5.91E-122
MROT_00004011	scaffold471:2146313-2167838	98.0819	31.3754	-1.64435	5.35979	8.33E-08	7.40E-06	EFZ13976	voltage-dependent calcium channel subunit alpha-2 delta-3-like	Solenopsis invicta	0
MROT_00004107	scaffold74:1443131-1447495	218.641	104.298	-1.06785	3.64153	0.000271	0.0050045	XP_003493439	PREDICTED: hypothetical protein LOC100749022	Bombus impatiens	0
MROT_00004160	scaffold461:566272-569432	27.9958	10.0359	-1.48004	3.7283	0.0001928	0.0039316	XP_003393464	fatty acyl- reductase 1	Bombus terrestris	0
MROT_00004325	scaffold132:491658-492527	1426.2	694.951	-1.0372	3.68233	0.0002311	0.0045299	XP_392731	vesicle amine transport protein	Apis mellifera	1.19E-41
MROT_00004326	scaffold132:521861-535119	1604.28	761.791	-1.07445	2.95176	0.0031597	0.030528	XP_003493681	vesicle amine transport protein	Bombus impatiens	0
MROT_00004387	scaffold254:197007-206195	19.952	3.57643	-2.47994	4.83859	1.31E-06	7.72E-05	XP_003396756	galactokinase 2	Bombus terrestris	0
MROT_00004486	scaffold9:108633-116195	81.1557	39.905	-1.02412	3.5608	0.0003697	0.0063721	XP_003488654	cubulin	Bombus impatiens	0
MROT_00004554	scaffold16:1396364-1401111	9.66355	2.24641	-2.10493	3.29406	0.0009875	0.0129217	XP_003489628	cdk1 4	Bombus impatiens	0
MROT_00004592	scaffold16:1540608-1546456	82.2499	38.2816	-1.10336	3.67729	0.0002357	0.0045631	XP_003249562	phosphofurin acidic cluster sorting protein 2	Apis mellifera	0
MROT_00004614	scaffold245:56190-71834	21.0031	9.50884	-1.14326	4.06983	4.70E-05	0.0012748	XP_003489883	dystrophin major muscle	Bombus impatiens	0
MROT_00004637	scaffold197:392592-429917	672.56	318.153	-1.07994	3.09348	0.0019782	0.0212603	XP_003491450	unc-112-related protein	Bombus impatiens	0
MROT_00004774	scaffold71:1858666-1871135	2.45565	0.50266	-2.28845	2.97694	0.0029114	0.0287982	XP_003393398	turin-like protease isoforms 1 x-2	Bombus terrestris	0
MROT_00004778	scaffold181:7638-10071	635.67	172.048	-1.88547	5.55534	2.77E-08	2.76E-06	XP_003489944	ejaculatory bulb-specific protein 3-like	Bombus impatiens	4.12E-56
MROT_00004792	scaffold181:137684-170370	43.6257	20.9787	-1.05625	3.32178	0.0008944	0.0119991	XP_003393148	muscle-specific protein isoform i	Bombus terrestris	0
MROT_00005020	scaffold78:60021-1601736	76.6253	34.2885	-1.1601	2.89264	0.0038202	0.0349669	XP_397120	chondroitin proteoglycan-2	Apis mellifera	1.99E-114
MROT_00005096	scaffold78:1171494-1185356	13.9376	6.14754	-1.1809	3.28952	0.0010773	0.0136792	XP_003401849	cg3777	Bombus terrestris	0
MROT_00005097	scaffold78:1191063-1198049	7.87678	2.9774	-1.40355	3.5228	0.000427	0.0070179	XP_003401851	PREDICTED: hypothetical protein LOC100649948	Bombus terrestris	0
MROT_00005126	scaffold78:1413648-1416753	1536.04	634.976	-1.27445	3.28419	0.0010228	0.0132381	XP_392498	cg6465 cg6465-pa	Apis mellifera	0
MROT_00005176	scaffold154:656144-656878	197.133	74.5003	-1.40385	3.69106	0.0002233	0.0044135	EFN76911	receptor protein tyrosine kinase	Harpegnathos saltator	5.38E-71
MROT_00005194	scaffold24:332272-333894	122.645	53.0704	-1.2085	3.97477	7.04E-05	0.0017814	XP_623497	trans- -dihydrobenzene- -diol dehydrogenase	Apis mellifera	0
MROT_00005262	scaffold121:1060281-1065736	8.89309	2.56497	-1.79374	2.87543	0.0040347	0.0363735	XP_003401677	camp-specific 3-cyclic phosphodiesterase-like isoform 2	Bombus terrestris	6.83E-116
MROT_00005300	scaffold150:126301-129684	200.747	81.7975	-1.29525	4.25686	1.49E-05	0.0005189	XP_393018	cd82 antigen	Apis mellifera	1.26E-118
MROT_00005347	scaffold150:1067055-1069869	48.2752	16.3003	-1.56639	3.22788	0.0012471	0.0152931	XP_392256	neurocalcin homolog	Acromyrmex echinator	2.08E-133
MROT_00005381	scaffold150:1510221-1510885	1742.5	809.377	-1.10627	3.42076	0.0006245	0.009333	3401960	hypothetical protein LOC100643548	Bombus terrestris	4.90E-01
MROT_00005394	scaffold157:664491-666915	341.556	118.45	-1.52784	4.75247	2.01E-06	0.0001033	XP_003485665	serine protease p153	Bombus impatiens	5.56E-72
MROT_00005395	scaffold157:670647-681368	173.997	63.7193	-1.44926	5.06188	4.15E-07	2.84E-05	XP_003485665	chitin binding peritrophin-	Bombus impatiens	0
MROT_00005396	scaffold157:683240-684060	312.215	112.07	-1.47814	5.18137	2.20E-07	1.67E-05	XP_003394859	PREDICTED: hypothetical protein LOC100644923	Bombus terrestris	3.72E-19
MROT_00005397	scaffold157:685571-689141	289.659	109.067	-1.40914	5.00571	5.57E-07	3.65E-05	XP_003394859	serine protease	Bombus terrestris	4.31E-118
MROT_00005408	scaffold157:1351240-1355608	1428.65	545.973	-1.38775	3.32511	0.0008838	0.0119343	XP_003394850	proactivator polypeptide	Bombus terrestris	0
MROT_00005425	scaffold275:338685-347653	62.4786	28.6433	-1.12516	3.12061	0.0018048	0.0200028	EFN78759	potassium sodium hyperpolarization-activated cyclic nucleotide-gated channel 4	Harpegnathos saltator	0
MROT_00005432	scaffold275:389222-400067	39.0906	12.2683	-1.67189	3.90584	9.39E-05	0.0022683	XP_003490225	mam domain-containing glycosylphosphatidylinositol anchor protein 1	Bombus impatiens	0
MROT_00005433	scaffold275:404083-404474	163.769	55.2623	-1.56729	2.72728	0.0063859	0.049892	XP_003490225	mam domain-containing glycosylphosphatidylinositol anchor protein 1	Bombus impatiens	1.50E-22
MROT_00005470	scaffold275:1042187-1052565	65.3431	16.8745	-1.95319	5.10775	3.26E-07	2.33E-05	XP_001123187	zinc transporter 1-like	Apis mellifera	4.92E-73
MROT_00005479	scaffold275:1568464-1584501	29.8883	11.2766	-1.40625	2.92893	0.0034013	0.0322609	XP_003402449	zinc metalloproteinase zmpb	Bombus terrestris	8.03E-55
MROT_00005510	scaffold77:798380-813483	536.14	192.576	-1.47718	4.35678	1.32E-05	0.0004756	XP_003398853	sterol o-acyltransferase 1-like	Bombus terrestris	0
MROT_00005566	scaffold585:163212-165248	1218.28	159.598	-2.93233	8.01038	1.11E-15	6.64E-13	XP_003484822	eater	Bombus impatiens	0
MROT_00005568	scaffold585:195666-198043	32.2273	12.3235	-1.38687	3.66945	0.0002431	0.004613	AAB30669	xylanase b	Neocalimastix patriciarum	7.54E-15
MROT_00005610	scaffold585:727742-730122	47.3233	20.4182	-1.2127	3.54626	0.0003907	0.0060016	XP_001122328	transferrin	Apis mellifera	0
MROT_00005631	scaffold585:1018882-1020759	323.924	142.926	-1.18038	4.1947	2.73E-05	0.0008167	XP_003401491	isoform b	Bombus terrestris	2.52E-75
MROT_00005632	scaffold585:1026955-1031690	408.603	164.49	-1.3127	4.12931	3.64E-05	0.0010325	EFN69863	probable peroxisomal acyl-coenzyme a oxidase 1-like	Camponotus floridanus	0
MROT_00005676	scaffold128:501163-509733	7.83441	1.99079	-1.97648	2.74966	0.0059657	0.0480416	XP_003490766	alpha -mannosidase	Bombus impatiens	8.99E-106
MROT_00005715	scaffold128:1536046-1561163	388.504	170.624	-1.18711	3.30813	0.0009392	0.0124332	XP_003492382	PREDICTED: hypothetical protein LOC100749810	Bombus impatiens	1.78E-74
MROT_00005930	scaffold616:1354682-1357532	88.9867	40.9932	-1.11821	3.8355	0.0001253	0.002807	XP_003399142	tubulin-specific chaperone e	Bombus terrestris	0
MROT_00005988	scaffold226:476027-477080	147.573	65.7215	-1.167	3.60865	0.0003078	0.0054882	XP_394069	ma-binding protein 7	Apis mellifera	1.99E-77
MROT_00006045	scaffold226:878025-881035	59.3073	20.9564	-1.50082	1.34455	1.40E-05	0.0004963	XP_003486932	cysteine sulfonic acid	Bombus impatiens	0
MROT_00006050	scaffold226:893834-896592	1553.28	647.282	-1.26285	3.10044	0.0019323	0.0209556	NP_001011572	transferrin	Apis mellifera	0
MROT_00006055	scaffold226:909155-909918	487.832	210.356	-1.21355	4.10975	3.96E-05	0.0011045	XP_003401209	protease inhibitor 1	Bombus terrestris	1.45E-29
MROT_00006102	scaffold199:491388-495083	15.1075	4.07647	-1.88987	2.97173	0.0029613	0.0290804	XP_001121479	ma-binding protein 47	Apis mellifera	1.01E-96
MROT_00006106	scaffold199:534479-543262	555.247	185.563	-1.58122	4.04714	5.18E-05	0.0013891	XP_003491180	c1q-like venom protein precursor	Bombus impatiens	6.86E-70
MROT_00006110	scaffold199:632470-678063	191.622	76.1323	-1.33168	4.73447	2.20E-06	0.0001117	XP_393963	trehalase	Apis mellifera	0
MROT_00006116	scaffold199:885215-898077	148.729	30.7422	-2.27439	7.66075	1.84E-14	8.81E-12	XP_003486048	cytochrome p450 9e2	Bombus impatiens	0
MROT_00006118	scaffold199:1046080-1047631	93.5817	28.6219	-1.70911	5.35918	8.36E-08	7.40E-06	XP_003393379	cytochrome p450 9e2	Bombus terrestris	0
MROT_00006120	scaffold199:1052082-1054845	320.22	94.089	-1.76697	5.92134	3.19E-09	4.30E-07	XP_003393379	cytochrome p450 9e2	Bombus terrestris	0
MROT_00006169	scaffold75:45322-46526	925.566	285.663	-1.69602	5.44308	5.24E-08	5.01E-06	XP_003488933	longevity assurance factor 1	Bombus impatiens	6.53E-176
MROT_00006176	scaffold75:151877-154464	38.1246	15.6784	-1.28194	2.9608	0.0030685	0.0299487	XP_003395915	zinc transporter zip3-like	Bombus terrestris	2.64E-121
MROT_00006281	scaffold185:1270264-1274601	44.6799	12.3695	-1.85284	5.34285	9.15E-08	7.97E-06	XP_397384	multidrug resistance-associated protein 9	Apis mellifera	0
MROT_00006282	scaffold185:1274611-1277362	63.5207	20.6047	-1.62425	5.17228	2.31E-07	1.74E-05	XP_003399996	sodium leak channel non-selective protein	Bombus terrestris	0
MROT_00006353	scaffold170:626760-628934	75.1761	17.1753	-3.3807	4.37426	1.22E-05	0.00045	EFN66719	protein sidekick-1	Camponotus floridanus	1.65E-66
MROT_00006364	scaffold204:10446-12192	41.0249	7.23563	-1.16267	2.97272	0.0029517	0.0290169	XP_003493257	facilitated trehalase transporter tret1-like	Bombus impatiens	1.96E-159
MROT_00006365	scaffold204:15473-16412	41.8144	15.2276	-1.45731	2.85569	0.0042943	0.0381029	XP_003493257	facilitated trehalase transporter tret1-like isoform 1	Bombus impatiens	4.20E-14
MROT_00006429	scaffold10:370895-373801	63.5801	5.6244	-3.4988	4.92789	8.31E-07	5.06E-05	XP_003398320	salivary protein mys precursor	Bombus terrestris	9.89E-40
MROT_00006431	scaffold10:380445-386355	443.565	33.9132	-3.70923	9.12095	0	0	XP_001120771	kda midgut protein	Apis mellifera	5.26E-69
MROT_00006447	scaffold14:245791-248811	261.151	91.4041	-1.51456	4.85519	1.20E-06	6.89E-05	XP_003485493	integrin beta-ps-like	Bombus impatiens	0
MROT_00											

MROT_00006907	scaffold127:277869-284549	550.157	142.166	-1.95227	4.22705	2.37E-05	0.000737	NP_001011578	vitellogenin	Apis mellifera	0
MROT_00006909	scaffold127:289303-290328	2313.7	329.221	-2.81307	7.42325	1.14E-13	4.38E-11	NP_001011578	vitellogenin	Apis mellifera	5.73E-55
MROT_00006910	scaffold127:291298-294459	2640.6	343.896	-2.94082	6.81799	9.23E-12	2.76E-09	NP_001011578	vitellogenin	Apis mellifera	1.08E-156
MROT_00006911	scaffold127:299717-306416	690.92	142.693	-2.27561	5.33962	9.31E-08	7.97E-06	ACQ91623	vitellogenin	Bombus ignitus	0
MROT_00006912	scaffold127:309099-316448	252.021	22.4283	-3.49015	6.49589	8.25E-11	1.84E-08	NP_001011578	vitellogenin	Apis mellifera	0
MROT_00006913	scaffold127:318663-328441	22.9574	8.81225	-1.38138	3.12084	0.0018034	0.0200028	XP_003492276	alanine-glyoxylate aminotransferase 2-like	Bombus impatiens	0
MROT_00006975	scaffold1557:2001-3162	52.7367	25.3975	-1.05412	2.74141	0.0061177	0.0487225	XP_003486681	comm domain-containing protein 8-like	Bombus impatiens	7.18E-106
MROT_00007022	scaffold1557:426150-428043	102.036	49.3405	-1.04823	3.67079	0.0002418	0.0046072	XP_003486744	intraflagellar transport protein 57 homolog	Bombus impatiens	0
MROT_00007146	scaffold347:45217-49227	55.8601	19.3051	-1.53283	4.36154	1.29E-05	0.0004679	XP_625170	transient receptor potential cation channel subfamily v member 6	Apis mellifera	0
MROT_00007198	scaffold347:925199-926017	1170.99	545.479	-1.10213	3.66119	0.0002511	0.0047239	XP_003402427	protein turtle-like	Bombus terrestris	9.37E-28
MROT_00007199	scaffold347:947875-971232	586.227	182.389	-1.68444	4.4688	7.87E-06	0.0003198	XP_003402427	protein turtle	Bombus terrestris	0
MROT_00007233	scaffold39:805899-813090	273.798	70.6341	-1.95467	5.97979	2.23E-09	3.14E-07	XP_003400969	multiple inositol polyphosphate phosphatase 1-like	Bombus terrestris	0
MROT_00007234	scaffold39:814436-814715	486.14	146.249	-1.73294	3.79226	0.0001493	0.0032159	XP_003491185	multiple inositol polyphosphate phosphatase 1-like	Bombus impatiens	5.05E-34
MROT_00007296	scaffold158:87341-92742	117.178	47.9758	-1.28832	4.5785	4.68E-06	0.0002164	EFN88612	lysosomal alpha-mannosidase	Harpegnathos saltator	0
MROT_00007313	scaffold158:356125-361912	171.128	71.5172	-1.25871	4.05856	6.53E-06	0.0002787	XP_001120437	integrin alpha-ps2	Apis mellifera	0
MROT_00007314	scaffold158:362274-364434	241.694	105.466	-1.1964	4.22137	2.43E-05	0.0007468	XP_003400140	integrin alpha-ps2	Bombus terrestris	2.13E-108
MROT_00007319	scaffold158:783637-787049	10.6339	0.870341	-3.61095	5.33514	9.55E-08	7.97E-06	XP_003494475	alpha-amylase 1	Apis mellifera	0
MROT_00007346	scaffold313:338042-339501	11.7453	3.12988	-1.90791	3.27461	0.0010581	0.0135599	XP_003251813	serine protease inhibitor 3 4-like	Apis mellifera	6.86E-103
MROT_00007353	scaffold317:457611-470783	243.38	68.669	-1.82548	5.90078	3.62E-09	4.76E-07	XP_003397475	protein yellow	Bombus terrestris	1.58E-126
MROT_00007417	scaffold140:588240-592903	201.525	90.0086	-1.16283	3.8423	0.0007138	0.0103023	XP_003249463	carbonic anhydrase 2-like	Apis mellifera	1.37E-77
MROT_00007449	scaffold56:706433-711926	114.742	56.3682	-1.02544	5.7744	0.000347	0.0060124	XP_395840	excitatory amino acid transporter 3	Apis mellifera	0
MROT_00007455	scaffold56:731255-732574	189.35	75.6515	-1.32362	4.43333	9.28E-06	0.0003593	EFZ22642	cytochrome b561	Solenopsis invicta	3.98E-109
MROT_00007531	scaffold180:266188-269365	196.835	98.3436	-1.00108	3.54641	0.0003905	0.0066016	XP_003492985	PREDICTED: hypothetical protein LOC100743236	Bombus impatiens	7.07E-104
MROT_00007595	scaffold784:58263-62840	69.4347	19.0645	-1.86477	6.18998	6.02E-10	9.92E-08	XP_003394375	sarcosine mitochondrial	Bombus terrestris	0
MROT_00007628	scaffold784:260648-263936	39.3992	18.6851	-1.07628	3.7242	0.0004238	0.0069976	XP_003487495	forked protein	Bombus impatiens	9.45E-101
MROT_00007745	scaffold66:279404-282195	89.6785	37.5616	-1.2555	4.3164	1.59E-05	0.0005437	XP_003399314	2-hydroxyacyl- lyase 1	Bombus terrestris	0
MROT_00007841	scaffold62:80799-100696	20.2821	8.91575	-1.18578	3.80601	0.0007777	0.0110206	XP_392417	ankyrin repeat and sterile alpha motif domain-containing protein 1b	Apis mellifera	0
MROT_00007947	scaffold68:772610-788929	48.7002	16.7876	-1.53653	4.29429	1.75E-05	0.0005923	XP_003489648	vascular cell adhesion protein 1	Bombus impatiens	0
MROT_00008049	scaffold1227:713375-716894	54.6933	27.3331	-1.00071	3.51523	0.0004394	0.0071799	XP_003485154	protein clec16a	Bombus impatiens	0
MROT_00008128	scaffold339:545192-555971	23.879	10.558	-1.17741	4.22361	2.40E-05	0.0007418	XP_624927	dna-dependent protein kinase catalytic subunit	Apis mellifera	0
MROT_00008140	scaffold339:713055-729211	14.7448	5.41141	-1.44613	2.75285	0.0059078	0.0476463	XP_392699	mannosyl-oligosaccharide alpha -mannosidase	Apis mellifera	0
MROT_00008186	scaffold188:586610-587431	57.6913	18.2219	-1.66268	3.38387	0.0007147	0.0103023	XP_394088	calmodulin-like protein 4-like	Apis mellifera	1.20E-98
MROT_00008199	scaffold188:727180-729884	103.909	51.3741	-1.01621	6.69979	0.0002158	0.0042908	XP_003490582	double-stranded dna-specific editase adar	Bombus impatiens	0
MROT_00008220	scaffold498:96986-105529	314.958	154.82	-1.02457	2.76463	0.0056987	0.0466279	XP_003397952	sortilin-related receptor	Bombus terrestris	0
MROT_00008269	scaffold498:557108-560502	37.1308	14.5546	-1.35114	3.97312	7.09E-05	0.0017856	XP_003397414	endothelin-converting enzyme 1	Bombus terrestris	0
MROT_00008326	scaffold35:409940-416724	219.761	40.7301	-2.43177	7.56927	3.75E-14	1.63E-11	XP_003493332	arylsulfatase b	Bombus impatiens	8.85E-122
MROT_00008329	scaffold35:435331-447280	65.9298	21.0786	-1.64515	4.26206	2.03E-05	0.0006681	XP_625057	cytochrome p450 4c3	Apis mellifera	9.53E-116
MROT_00008334	scaffold35:498298-499685	178.691	64.1857	-1.47715	4.94966	7.43E-07	4.59E-05	XP_003493394	udp-xylose and udp-n-acetylglucosamine transporter-like	Bombus impatiens	4.45E-177
MROT_00008400	scaffold129:630673-638830	246.417	113.26	-1.12146	3.70407	0.0002122	0.0042545	XP_623916	glutamyl aminopeptidase	Apis mellifera	0
MROT_00008405	scaffold129:706388-729579	142.048	67.1983	-1.07989	3.67152	0.0002411	0.0046033	XP_003492439	acyl- delta desaturase	Bombus impatiens	0
MROT_00008406	scaffold129:737006-739673	3091.91	1185.21	-1.38336	3.59644	0.0003226	0.0057037	XP_003492439	acyl- delta desaturase	Bombus impatiens	6.99E-173
MROT_00008415	scaffold151:79311-81066	240.822	62.5435	-1.94503	6.51485	7.28E-11	1.66E-08	XP_003485361	transmembrane protein 120 homolog	Bombus impatiens	0
MROT_00008416	scaffold151:84504-86633	193.551	72.9089	-1.40855	4.94404	7.65E-07	4.69E-05	XP_395360	cytochrome p450 mitochondrial	Apis mellifera	0
MROT_00008442	scaffold151:462751-464928	222.44	88.2291	-1.33409	4.72777	2.27E-06	0.0001143	XP_003486170	transmembrane protein c20orf108	Bombus impatiens	4.37E-92
MROT_00008479	scaffold12:516620-544084	28.1321	13.694	-1.03867	3.3167	0.0009109	0.0121685	XP_392332	methyl- binding domain protein 5	Apis mellifera	0
MROT_00008589	scaffold70:488895-494271	6.24962	0.821304	-2.92778	3.81572	0.0001358	0.0029926	EGF58875	lachesin	Acromyrmex echinatior	1.87E-165
MROT_00008593	scaffoldd272:682-1980	24.1222	6.69365	-1.8495	3.05881	0.0022222	0.0230031	EFZ18413	probable cytochrome p450 6a14	Solenopsis invicta	7.02E-55
MROT_00008613	scaffoldd272:442119-444588	128.772	62.6655	-1.03908	3.61693	0.0002981	0.0053299	XP_003397549	adipokinetic hormone receptor	Bombus terrestris	1.81E-169
MROT_00008623	scaffoldd272:586132-592258	103.245	50.2336	-1.03935	3.78712	0.0001651	0.0034946	XP_003486311	glutamine synthetase 2 cytoplasmic	Bombus impatiens	0
MROT_00008658	scaffold33:638652-642074	100.924	50.0287	-1.0125	3.43284	0.0005971	0.0091229	XP_003398025	heparan-sulfate 6-o-sulfotransferase 2-like	Bombus impatiens	0
MROT_00008697	scaffold26:489791-512885	1.8792	0.216212	-3.1196	4.15498	3.25E-05	0.0006545	XP_003485531	nephrin	Bombus impatiens	0
MROT_00008787	scaffold149:42775-44798	650.86	124.567	-2.38543	6.23885	4.41E-10	8.11E-08	XP_003491822	PREDICTED: hypothetical protein LOC100748657	Bombus impatiens	0
MROT_00008901	scaffoldd238:371403-371727	219.684	61.3164	-1.84109	3.4288	0.0006063	0.0092192	XP_003146196	hypothetical protein LOAG_10624	Loa loa	0
MROT_00008902	scaffoldd238:372892-395579	147.785	51.0073	-1.53472	5.14221	2.72E-07	2.01E-05	EFZ13954	sodium potassium-transporting atpase subunit alpha	Solenopsis invicta	0
MROT_00009090	scaffold414:64795-66042	68.9266	27.4121	-1.33025	3.48375	0.0004944	0.007843	XP_003400487	alcohol dehydrogenase	NADP+-like	1.32E-150
MROT_00009121	scaffold414:466518-469981	49.7119	18.3377	-1.43878	4.53556	5.75E-06	0.0002521	XP_003493901	neurotactin	Bombus impatiens	0
MROT_00009152	scaffold114:374398-376839	36.6127	11.9846	-1.61116	3.51739	0.0004358	0.0071379	XP_003490097	monocarboxylate transporter	Bombus impatiens	2.37E-87
MROT_00009168	scaffold114:518462-519438	61.9798	23.1549	-1.42048	3.4123	0.0006442	0.0095974	XP_003393631	cysteine-rich pdz-binding	Bombus impatiens	2.08E-66
MROT_00009232	scaffold438:506368-507310	61.4092	21.3398	-1.52491	3.00058	0.0026947	0.0269639	XP_003485966	epoxide hydrolase 4-like	Bombus impatiens	2.45E-96
MROT_00009233	scaffold438:507387-508126	55.6975	18.154	-1.61732	3.34679	0.0008175	0.0114492	XP_003485966	epoxide hydrolase 4-like	Bombus impatiens	2.76E-107
MROT_00009349	scaffold169:354885-358555	282.491	139.776	-1.01509	3.3325	0.0008607	0.011791	XP_392881	integral membrane protein 2c	Apis mellifera	4.60E-168
MROT_00009438	scaffold189:292547-295894	357.027	39.2225	-3.18628	8.59146	0	0	XP_623798	10-formyltetrahydrofolate dehydrogenase	Apis mellifera	0
MROT_00009481	scaffold225:75294-79908	40.2451	14.8074	-1.44249	3.67609	0.0002368	0.0045631	XP_623300	phenylalanine hydroxylase	Apis mellifera	0
MROT_00009610	scaffold256:107807-110171	362.049	164.217	-1.14058	3.74448	0.0001808	0.0037264	XP_003492846	utp-glucose-1-phosphate uridylyltransferase 2	Bombus impatiens	0
MROT_00009633	scaffold256:439802-441152	16.5264	5.75947	-1.52077	3.04607	0.0023186	0.0237697	XP_003494785	leucine-rich repeat-containing protein 15-like	Bombus impatiens	7.03E-83
MROT_00009668	scaffold358:118528-121606	1524.1	685.19	-1.15338	3.20088	0.0013701	0.0161973	XP_397306	transaldolase	Apis mellifera	0
MROT_00009738	scaffoldd648:283054-288494	20.1645	7.55705	-1.41592	2.99242	0.0027677	0.027605	XP_623230	e3 ubiquitin-protein ligase mib1	Apis mellifera	0
MROT_00009791	scaffold252:7925-17011	17.0243	4.2779	-1.99262	4.50336	6.63E-06	0.0002804	XP_001120177	ring finger protein 17	Apis mellifera	0
MROT_00009792	scaffold252:21982-27275	9.86257	2.14093	-2.20372	2.89468	0.0037955	0.0348083	XP_001120177	tudor domain containing 1 protein	Apis mellifera	1.00E-65
MROT_00009824	scaffold665:10027-13172	143.916	64.2464	-1.16354	4.16323	3.14E-05	0.0009263	XP_003399604	glycogen debranching enzyme	Bombus terrestris	0
MROT_00009825	scaffold665:13230-16950	105.383	47.2274	-1.15795	4.21102	2.54E-05	0.0007719	XP_003399604	glycogen debranching enzyme-like	Bombus terrestris	0
MROT_00009879	scaffold375:35629-38506	67.4884	23.1799	-1.54177	5.06014	4.19E-07	2.84E-05	XP_392730	ring finger-containing	Apis mellifera	0
MROT_00009892	scaffoldd537:143615-147491	147.809	61.4766	-1.26563	4.34777	1.38E-05	0.0004908	XP_624477	poly	ADP-ribose polymerase	0
MROT_00009915	scaffold250:17478-20974	6.06645	1.06027	-2.51642	3.28418	0.0010228	0.0132381	XP_003393600	leukocyte receptor tyrosine protein kinase	Bombus terrestris	1.32E-89
MROT_00009916	scaffold250:21000-28849	8.19117	2.52869	-1.69568	3.10108	0.0019282	0.0209339	XP_003393600	alk tyrosine kinase receptor	Bombus terrestris	1.47E-137
MROT_00009980	scaffold584:90448-93833	40.9858	17.9444	-							

MROT_00010200	scaffold448:18552-20212	78.617	32.2001	-1.28778	3.53064	0.0004146	0.0068962	XP_001122457	laminin subunit beta-1	Apis mellifera	0
MROT_00010229	scaffold298:55662-57431	111.533	54.6914	-1.02808	3.47951	0.0005023	0.0079158	XP_003484989	probable chitinase 2-like	Bombus impatiens	3.67E-179
MROT_00010265	scaffold1298:76179-79468	99.1588	41.464	-1.25788	4.47568	7.62E-06	0.0003114	XP_001122457	laminin subunit beta-1	Apis mellifera	0
MROT_00010348	scaffold1108:12-842	172.478	72.6977	-1.24643	2.88112	0.0039627	0.0359268	NA	NA	NA	NA
MROT_00010355	C20418457:1375-3197	158.246	54.9073	-1.5271	5.21825	1.81E-07	1.40E-05	XP_003708678	mitochondrial enolase superfamily member 1-like		0