**Table S1**. Complete list of significant Differentially Expressed Genes (DEG) ordered by the significance rate as p-value adjusted (p-adj), with the mRNA identification (ID RNA), the protein identification (ID Protein), and the gene name and description obtained during the annotation step, while non-annotated genes are labelled as NA.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID RNA** | **ID Protein** | **log2FC** | **p-adj** | **Gene Name** | **Description** |
| XM\_036818694.1 | XP\_036674589.1 | 2.4752 | 0.0000 | AAEL012395 | AAEL012395-PA |
| XM\_017090291.2 | XP\_016945780.1 | 2.9682 | 0.0000 | CG15155 | CG5783 |
| XM\_017070308.2 | XP\_016925797.2 | 3.9599 | 0.0000 | CecC | Cecropin-C |
| XM\_017071692.2 | XP\_016927181.2 | 2.1754 | 0.0000 | argH | Ecdysteroid kinase |
| XM\_017082002.2 | XP\_016937491.2 | 2.1060 | 0.0000 | Cyp12c1 | Probable cytochrome P450 12c1, mitochondrial |
| XM\_017081313.2 | XP\_016936802.1 | 2.8759 | 0.0000 | CG14204 | Uncharacterized protein, isoform A |
| XM\_017080538.2 | XP\_016936027.2 | 2.8788 | 0.0000 | CG5892 | CG5892 protein |
| XM\_017081158.2 | XP\_016936647.1 | 2.2261 | 0.0000 | CG5892 | Uncharacterized protein, isoform B |
| XM\_017076943.2 | XP\_016932432.2 | 1.8105 | 0.0000 | CG6908 | CG6908, isoform A |
| XM\_036815355.1 | XP\_036671250.1 | -5.2563 | 0.0000 | cut12 | Larval cuticle protein 8 |
| XM\_017071488.2 | XP\_016926977.1 | -1.2229 | 0.0000 | B3GN1 | N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase |
| XM\_017083107.2 | XP\_016938596.1 | 4.6333 | 0.0000 | CecB | Cecropin-B |
| XM\_036816950.1 | XP\_036672845.1 | -4.1303 | 0.0000 | CG6475 | UDP-glucuronosyltransferase |
| XM\_017072621.2 | XP\_016928110.1 | 2.2159 | 0.0001 | Dwil\GK22020 | GK22020 |
| XM\_017090466.2 | XP\_016945955.1 | -1.7196 | 0.0001 | rdh10 | Epidermal retinol dehydrogenase 2 |
| XM\_017087002.2 | XP\_016942491.1 | -1.5767 | 0.0002 | Tg | Transglutaminase, isoform B |
| XM\_017076381.2 | XP\_016931870.1 | 1.4442 | 0.0002 | Dper\GL11397 | GL11397 |
| XM\_017090482.2 | XP\_016945971.1 | -2.3174 | 0.0002 | CG13727 | CG13727 |
| XM\_036817149.1 | XP\_036673044.1 | -3.3542 | 0.0002 | Dgri\GH19732 | GH19732 |
| XM\_017085672.2 | XP\_016941161.1 | 1.5455 | 0.0002 | Mdr49 | Multidrug resistance protein homolog 49 |
| XM\_017089671.2 | XP\_016945160.1 | -2.3536 | 0.0002 | PLCX1 | PI-PLC X domain-containing protein 1 |
| XM\_017081368.2 | XP\_016936857.1 | 3.4798 | 0.0003 | FAS | Fatty acid synthase |
| XM\_017084996.2 | XP\_016940485.1 | 0.7873 | 0.0003 | CG8299 | CG8299 |
| XM\_017067854.2 | XP\_016923343.2 | 3.6424 | 0.0004 | edin | Elevated during infection |
| XM\_017070454.2 | XP\_016925943.2 | 1.4819 | 0.0004 | CG32373 | GD14034 |
| XM\_017071673.2 | XP\_016927162.2 | 1.7312 | 0.0004 | CG11878 | CG11878 |
| XM\_017075921.2 | XP\_016931410.2 | 2.9973 | 0.0004 | SV2B | Synaptic vesicle glycoprotein 2B |
| XM\_017077979.2 | XP\_016933468.1 | 2.7754 | 0.0004 | Hsp22 | Heat shock protein 22 |
| XM\_017086368.2 | XP\_016941857.1 | -1.4717 | 0.0004 | ORCT | Organic cation transporter protein |
| XM\_036816817.1 | XP\_036672712.1 | -1.3954 | 0.0004 | NA | NA |
| XM\_017087763.2 | XP\_016943252.1 | -0.9540 | 0.0004 | nadk | NAD kinase |
| XM\_036818017.1 | XP\_036673912.1 | -1.4016 | 0.0004 | Cyp304a1 | Probable cytochrome P450 304a1 |
| XM\_017087530.2 | XP\_016943019.1 | 4.3055 | 0.0004 | CG10814 | LP01339p |
| XM\_017074540.2 | XP\_016930029.1 | -1.3314 | 0.0005 | bw | Protein brown |
| XM\_017080232.2 | XP\_016935721.1 | -1.9336 | 0.0005 | ORCT | Organic cation transporter protein |
| XM\_017089519.2 | XP\_016945008.1 | -1.7430 | 0.0007 | CG34136 | GL25886 |
| XM\_017068484.2 | XP\_016923973.1 | -6.5723 | 0.0008 | sao | Glucose dehydrogenase (FAD, quinone) |
| XM\_017078139.2 | XP\_016933628.2 | -6.5015 | 0.0008 | cut12 | Cuticle 12 homolog |
| XM\_017070631.2 | XP\_016926120.1 | 2.5282 | 0.0009 | L259 | Putative multidrug resistance-associated protein lethal(2)03659 |
| XM\_017085064.2 | XP\_016940553.1 | 3.3890 | 0.0015 | DptB | Diptericin B |
| XM\_017088263.2 | XP\_016943752.1 | 3.7255 | 0.0015 | GE10567 | GH23828 |
| XM\_017067645.2 | XP\_016923134.1 | -3.1143 | 0.0017 | Dsim\GD23979 | GD23979 |
| XM\_017077469.2 | XP\_016932958.1 | -3.1984 | 0.0017 | Dsec\GM17989 | GM17989 |
| XM\_017076376.2 | XP\_016931865.2 | -2.4744 | 0.0017 | Dsec\GM10963 | GM10963 |
| XM\_017068483.2 | XP\_016923972.2 | -4.1223 | 0.0019 | Dsec\GM12019 | GM12019 |
| XM\_036819583.1 | XP\_036675478.1 | -5.0805 | 0.0019 | TwdlO | RT02919p |
| XM\_017078742.1 | XP\_016934231.1 | 2.4889 | 0.0020 | AcCoAS | Acetyl-coenzyme A synthetase |
| XM\_036818936.1 | XP\_036674831.1 | 1.2622 | 0.0020 | e2f1 | Transcription factor E2F2 |
| XM\_017072989.2 | XP\_016928478.1 | 1.7231 | 0.0021 | NA | NA |
| XM\_017069451.2 | XP\_016924940.1 | -2.7376 | 0.0021 | CG31810 | RE06583p |
| XM\_036817607.1 | XP\_036673502.1 | -1.9633 | 0.0021 | wat | LP09631p |
| XM\_017068713.2 | XP\_016924202.1 | -1.8459 | 0.0023 | Cyp4s3 | Probable cytochrome P450 4s3 |
| XM\_017074938.2 | XP\_016930427.1 | -4.6467 | 0.0023 | LARP6 | La-related protein 6 |
| XM\_017084994.2 | XP\_016940483.1 | -1.2313 | 0.0023 | wbl | Protein windbeutel |
| XM\_036821776.1 | XP\_036677671.1 | -1.5920 | 0.0023 | ser10 | Serine protease easter |
| XM\_017073965.2 | XP\_016929454.1 | 3.4538 | 0.0027 | AttB | Attacin-B |
| XM\_036821621.1 | XP\_036677516.1 | -2.0700 | 0.0029 | Pxd | Peroxidase |
| XM\_017068464.2 | XP\_016923953.1 | -1.3457 | 0.0032 | DHGL | Glucose dehydrogenase (Acceptor) |
| XM\_017090238.2 | XP\_016945727.1 | 0.9028 | 0.0034 | Hydr2 | Abhydrolase domain-containing protein 2 |
| XM\_017077575.1 | XP\_016933064.1 | -6.5958 | 0.0040 | NA | NA |
| XM\_017084979.2 | XP\_016940468.1 | 1.2259 | 0.0042 | rdh12 | Retinol dehydrogenase 13 |
| XM\_036817128.1 | XP\_036673023.1 | 1.8290 | 0.0043 | CG42335 | GG17480 |
| XM\_017082853.2 | XP\_016938342.1 | -0.8464 | 0.0047 | Dgri\GH11122 | GH11122 |
| XM\_017084121.2 | XP\_016939610.1 | -1.3238 | 0.0047 | Gld | Glucose dehydrogenase [FAD, quinone] |
| XM\_017090020.2 | XP\_016945509.1 | 3.2408 | 0.0047 | GA25477 | Ecdysteroid kinase |
| XM\_036816237.1 | XP\_036672132.1 | -1.2836 | 0.0047 | Dsim\GD12354 | GD12354 |
| XM\_017083120.2 | XP\_016938609.1 | 3.7412 | 0.0049 | Cec1 | Cecropin-1/3 |
| XM\_017072588.2 | XP\_016928077.1 | 1.0432 | 0.0059 | Dgri\GH19762 | GH19762 |
| XM\_036818775.1 | XP\_036674670.1 | 1.9257 | 0.0061 | Dere\GG12422 | GG12422 |
| XM\_017076053.2 | XP\_016931542.2 | 1.3284 | 0.0073 | acy1 | Aminoacylase-1 |
| XM\_017071973.2 | XP\_016927462.1 | -1.8557 | 0.0074 | NimC2 | Nimrod C2, isoform A |
| XM\_017081447.2 | XP\_016936936.1 | 1.4337 | 0.0074 | GLIPR2 | Golgi-associated plant pathogenesis-related protein 1 |
| XM\_017070065.2 | XP\_016925554.2 | -0.9473 | 0.0077 | AMPD2 | AMP deaminase 2 |
| XM\_036817298.1 | XP\_036673193.1 | 1.9223 | 0.0077 | CG5845 | GH14075p |
| XM\_017084969.2 | XP\_016940458.1 | 1.0459 | 0.0078 | fa2h | Fatty acid 2-hydroxylase |
| XM\_036819469.1 | XP\_036675364.1 | -0.7205 | 0.0086 | Zip99C | Zinc transporter ZIP13 homolog |
| XM\_017088862.2 | XP\_016944351.1 | -4.1611 | 0.0087 | GA12574 | CG13856 |
| XM\_017085179.2 | XP\_016940668.1 | 3.2161 | 0.0090 | Mtk | Metchnikowin |
| XM\_017085063.2 | XP\_016940552.1 | 2.1930 | 0.0091 | Dpt | Dpt |
| XM\_017085032.2 | XP\_016940521.1 | 3.0345 | 0.0091 | C28D1 | Putative cytochrome P450 28d1 |
| XM\_036818266.1 | XP\_036674161.1 | -1.3042 | 0.0110 | SP1029 | FI20034p1 |
| XM\_017086060.2 | XP\_016941549.1 | -4.7044 | 0.0116 | TotB | Protein Turandot B |
| XM\_017089105.2 | XP\_016944594.2 | 0.9670 | 0.0116 | CG18135 | Uncharacterized protein, isoform D |
| XM\_017077564.2 | XP\_016933053.1 | -3.0319 | 0.0122 | CUPP | Pupal cuticle protein |
| XM\_036818397.1 | XP\_036674292.1 | -1.4204 | 0.0138 | Cad86C | Cadherin-86C |
| XM\_017074257.2 | XP\_016929746.1 | 1.0430 | 0.0158 | NA | NA |
| XM\_036816301.1 | XP\_036672196.1 | -2.0851 | 0.0161 | prc | Pericardin |
| XM\_017081597.2 | XP\_016937086.1 | 1.2819 | 0.0166 | ABCA3 | ATP-binding cassette sub-family A member 3 |
| XM\_036818624.1 | XP\_036674519.1 | -1.9309 | 0.0173 | mp20 | Calponin |
| XM\_017071780.2 | XP\_016927269.1 | -0.7504 | 0.0183 | TTPA | Alpha-tocopherol transfer protein |
| XM\_017078039.2 | XP\_016933528.1 | -0.9875 | 0.0183 | KRAK | Putative serine hydrolase |
| XM\_017086252.2 | XP\_016941741.1 | -2.0604 | 0.0183 | Et | UNC93-like protein MFSD11 |
| XM\_017072678.2 | XP\_016928167.1 | -3.1617 | 0.0194 | Dsec\GM20366 | GM20366 |
| XM\_036819109.1 | XP\_036675004.1 | 2.1160 | 0.0194 | CG7907 | CG7907, isoform B |
| XM\_036818935.1 | XP\_036674830.1 | -2.3494 | 0.0196 | NA | NA |
| XM\_017085591.2 | XP\_016941080.2 | 0.7889 | 0.0199 | scb | Integrin alpha-PS3 |
| XM\_017072895.2 | XP\_016928384.1 | -1.9948 | 0.0203 | Dgri\GH13198 | GH13198 |
| XM\_017068172.2 | XP\_016923661.2 | -1.5717 | 0.0204 | SV2C | Synaptic vesicle glycoprotein 2C |
| XM\_017071984.2 | XP\_016927473.1 | -0.9256 | 0.0204 | Dmoj\GI13943 | Uncharacterized protein, isoform A |
| XM\_017073585.2 | XP\_016929074.1 | 3.9464 | 0.0211 | ec | UDP-glucuronosyltransferase 2B33 |
| XM\_017085846.2 | XP\_016941335.2 | -1.2500 | 0.0211 | Lip3 | Lipase 3 |
| XM\_017073387.2 | XP\_016928876.1 | -1.1762 | 0.0214 | Buffy | AT16536p |
| XM\_017069265.2 | XP\_016924754.1 | -2.0968 | 0.0216 | CSAD | Cysteine sulfinic acid decarboxylase |
| XM\_017089137.2 | XP\_016944626.2 | -4.1360 | 0.0216 | Cpr76Bb | Cuticular protein 76Bb |
| XM\_017084488.2 | XP\_016939977.2 | 1.1597 | 0.0218 | P58IPK | LD25575p |
| XM\_017074600.2 | XP\_016930089.1 | -3.2139 | 0.0231 | ATS16 | A disintegrin and metalloproteinase with thrombospondin motifs 16 |
| XM\_017084997.2 | XP\_016940486.1 | -3.1074 | 0.0231 | Spn43Aa | Serpin 43Aa |
| XM\_036818866.1 | XP\_036674761.1 | -1.4923 | 0.0231 | chiB4 | Chitinase 5 |
| XM\_017071913.2 | XP\_016927402.1 | -2.1004 | 0.0234 | PICO | Putative inorganic phosphate cotransporter |
| XM\_017077566.2 | XP\_016933055.1 | -2.9566 | 0.0234 | CPR8 | Pupal cuticle protein Edg-78E |
| XM\_017080126.2 | XP\_016935615.1 | -1.0364 | 0.0234 | S36A4 | Proton-coupled amino acid transporter 4 |
| XM\_017080481.2 | XP\_016935970.1 | -1.7505 | 0.0234 | TRET1 | Facilitated trehalose transporter Tret1 |
| XM\_017086840.2 | XP\_016942329.1 | 2.1632 | 0.0234 | tatA | Tyrosine aminotransferase |
| XM\_036812972.1 | XP\_036668867.1 | -1.1043 | 0.0234 | SPB6 | Serpin B6 |
| XM\_017079789.2 | XP\_016935278.1 | -0.9997 | 0.0236 | Dbus\_chr3Rg2729 | CG18747 |
| XM\_017074305.2 | XP\_016929794.1 | 5.3749 | 0.0244 | AttB | Attacin-B |
| XM\_017073726.2 | XP\_016929215.1 | -1.5085 | 0.0258 | Dsec\GM15714 | GM15714 |
| XM\_017067827.2 | XP\_016923316.1 | -4.9537 | 0.0259 | Dper\GL20325 | GL20325 |
| XM\_036819632.1 | XP\_036675527.1 | 2.8846 | 0.0260 | Dere\GG11765 | GG11765 |
| XM\_036821909.1 | XP\_036677804.1 | 1.4383 | 0.0262 | NA | NA |
| XM\_017074051.1 | XP\_016929540.1 | -3.6362 | 0.0302 | CG34215 | GL15427 |
| XM\_017070871.2 | XP\_016926360.2 | -1.3011 | 0.0304 | SP1029 | FI20034p1 |
| XM\_036819242.1 | XP\_036675137.1 | 2.0997 | 0.0306 | CG1315 | Argininosuccinate synthase |
| XM\_017077420.2 | XP\_016932909.2 | 2.7868 | 0.0319 | NA | NA |
| XM\_036817915.1 | XP\_036673810.1 | -2.1012 | 0.0324 | Pxd | Peroxidase |
| XM\_017074307.1 | XP\_016929796.1 | 3.7215 | 0.0324 | Dro | Drosocin |
| XM\_017082712.2 | XP\_016938201.1 | -0.8795 | 0.0327 | GstZ2 | Probable maleylacetoacetate isomerase 2 |
| XM\_036815644.1 | XP\_036671539.1 | -1.4965 | 0.0348 | yhiR | Uncharacterized protein yhiR |
| XM\_017076944.2 | XP\_016932433.1 | -1.3134 | 0.0348 | Ho | Heme oxygenase |
| XM\_017089689.2 | XP\_016945178.1 | -1.1723 | 0.0375 | bwa | Alkaline ceramidase 2 |
| XM\_017090197.2 | XP\_016945686.1 | 1.4129 | 0.0379 | socs4 | Suppressor of cytokine signaling 5 |
| XM\_017073005.2 | XP\_016928494.1 | 0.7600 | 0.0383 | Ice1 | Little elongation complex subunit 1 |
| XM\_036817002.1 | XP\_036672897.1 | -1.5253 | 0.0383 | Cht5 | Cht5 |
| XM\_017085542.2 | XP\_016941031.1 | -0.7849 | 0.0385 | CG8195 | CG8195 |
| XM\_017068274.2 | XP\_016923763.1 | -3.5941 | 0.0386 | fzo1 | GD17303 |
| XM\_036816600.1 | XP\_036672495.1 | 1.9050 | 0.0389 | NA | NA |
| XM\_017069078.2 | XP\_016924567.1 | -2.4443 | 0.0401 | Dana\GF23444 | Uncharacterized protein, isoform B |
| XM\_017086968.2 | XP\_016942457.1 | -2.2637 | 0.0401 | opt1 | Solute carrier family 15 member |
| XM\_017075283.2 | XP\_016930772.1 | -1.0803 | 0.0412 | GGT1 | Gamma-glutamyltranspeptidase 1 |
| XM\_017087632.2 | XP\_016943121.1 | 2.2234 | 0.0412 | ACC | Acetyl-CoA carboxylase, isoform A |
| XM\_017075005.2 | XP\_016930494.1 | 0.7037 | 0.0427 | CG9380 | CG9380, isoform D |
| XM\_017070436.2 | XP\_016925925.1 | 1.4232 | 0.0427 | PGRP | Peptidoglycan-recognition protein |
| XM\_017081867.2 | XP\_016937356.1 | 2.3294 | 0.0427 | NPC1 | Niemann-Pick C1 protein |
| XM\_017077111.2 | XP\_016932600.2 | -1.3711 | 0.0437 | CG1136 | CG1136 |
| XM\_017082873.2 | XP\_016938362.1 | -0.9647 | 0.0437 | Dgri\GH10611 | GH10611 |
| XM\_017082837.2 | XP\_016938326.2 | -1.8188 | 0.0440 | eloF | Elongation of very long chain fatty acids protein |
| XM\_017068990.2 | XP\_016924479.2 | 1.0403 | 0.0452 | UT14A | U3 small nucleolar RNA-associated protein 14-like protein A |
| XM\_017071667.2 | XP\_016927156.1 | -3.0917 | 0.0452 | Dper\GL11989 | GL11989 |
| XM\_017076569.1 | XP\_016932058.1 | 1.1019 | 0.0452 | CG7298 | CG7298 |
| XM\_036813169.1 | XP\_036669064.1 | -4.4360 | 0.0452 | Dgri\GH21017 | GH21017 |
| XM\_036815768.1 | XP\_036671663.1 | -1.8401 | 0.0457 | CG13033 | CG13033 |
| XM\_017077861.1 | XP\_016933350.1 | -1.1388 | 0.0464 | miox | Inositol oxygenase |
| XM\_017070210.2 | XP\_016925699.2 | 1.2719 | 0.0471 | PGRP | Peptidoglycan-recognition protein |
| XM\_017078405.2 | XP\_016933894.1 | -6.8614 | 0.0490 | Dyak\GE27997 | NA |
| XM\_017083639.2 | XP\_016939128.1 | -0.9264 | 0.0512 | Sk1 | RE64552p |
| XM\_017068991.2 | XP\_016924480.2 | 1.7445 | 0.0532 | Dmoj\GI13119 | Uncharacterized protein, isoform B |
| XM\_017086105.1 | XP\_016941594.1 | -3.8130 | 0.0536 | NA | NA |
| XM\_017068928.2 | XP\_016924417.1 | -0.6450 | 0.0541 | PANK4 | Pantothenate kinase 4 |
| XM\_017072300.2 | XP\_016927789.1 | -0.7602 | 0.0541 | FATP | Fatty acid transport protein |
| XM\_017074730.2 | XP\_016930219.1 | 1.5653 | 0.0541 | mftc | Mitochondrial folate transporter/carrier |
| XM\_017088409.2 | XP\_016943898.2 | -1.3341 | 0.0541 | CG7675 | CG7675, isoform B |
| XM\_017090292.2 | XP\_016945781.1 | 0.7835 | 0.0541 | ept1 | Ethanolaminephosphotransferase 1 |
| XM\_017069738.2 | XP\_016925227.1 | 0.8339 | 0.0543 | PLPP | Pyridoxal phosphate phosphatase |
| XM\_036818497.1 | XP\_036674392.1 | 1.3371 | 0.0543 | P58IPK | LD25575p |
| XM\_017078949.2 | XP\_016934438.2 | 0.8519 | 0.0548 | CG2199 | Zinc finger protein CG2199 |
| XM\_017083560.2 | XP\_016939049.1 | -0.8921 | 0.0553 | CG6762 | Putative sulfiredoxin |
| XM\_017068396.2 | XP\_016923885.1 | -0.9809 | 0.0563 | CG2200 | Probable alpha-aspartyl dipeptidase |
| XM\_017088592.2 | XP\_016944081.1 | -1.3461 | 0.0563 | PLB1 | Phospholipase B1, membrane-associated |
| XM\_036819222.1 | XP\_036675117.1 | 2.5021 | 0.0563 | CG14606 | IP11886p |
| XM\_036819766.1 | XP\_036675661.1 | 1.5069 | 0.0563 | PH4alphaSG1 | IP03659p |
| XM\_017076422.2 | XP\_016931911.1 | -2.2604 | 0.0565 | Dgri\GH15877 | GH15877 |
| XM\_017085701.2 | XP\_016941190.1 | -0.6124 | 0.0565 | Dyak\GE22689 | CG8229 |
| XM\_036817332.1 | XP\_036673227.1 | -0.5740 | 0.0565 | Klp98A | Kinesin-like protein Klp98A |
| XM\_036819139.1 | XP\_036675034.1 | 2.3285 | 0.0565 | NCBP1 | CG7907, isoform B |
| XM\_036819056.1 | XP\_036674951.1 | 0.9928 | 0.0596 | FANCM | Fanconi anemia group M protein |
| XM\_017090334.2 | XP\_016945823.2 | -1.3861 | 0.0612 | CG9663 | CG9663 |
| XM\_036819036.1 | XP\_036674931.1 | -1.7704 | 0.0616 | Nep2 | Neprilysin 2, isoform A |
| XM\_017087065.2 | XP\_016942554.2 | 1.2512 | 0.0645 | NA | NA |
| XM\_017071948.1 | XP\_016927437.1 | 2.1280 | 0.0646 | NA | NA |
| XM\_017079537.2 | XP\_016935026.1 | -0.7607 | 0.0657 | S45A2 | Membrane-associated transporter protein |
| XM\_017089152.2 | XP\_016944641.1 | 1.2743 | 0.0657 | sno | Protein strawberry notch |
| XM\_017071696.2 | XP\_016927185.2 | 2.4980 | 0.0664 | CG11878 | CG11878 |
| XM\_036816243.1 | XP\_036672138.1 | 1.6871 | 0.0664 | Dsec\GM14824 | GM14824 |
| XM\_017080659.2 | XP\_016936148.2 | -2.8003 | 0.0664 | Dgri\GH14489 | GH14489 |
| XM\_036817522.1 | XP\_036673417.1 | -1.5850 | 0.0664 | Dere\GG20486 | GG20486 |
| XM\_017085333.2 | XP\_016940822.1 | 0.8070 | 0.0667 | Dyak\GE13911 | Uncharacterized protein, isoform A |
| XM\_017086831.2 | XP\_016942320.1 | -0.9388 | 0.0667 | CG15343 | IP08110p |
| XM\_017089198.2 | XP\_016944687.1 | 1.1170 | 0.0667 | CG3285 | CG3285, isoform A |
| XM\_036816433.1 | XP\_036672328.1 | -1.3760 | 0.0667 | Dsim\GD13037 | Uncharacterized protein, isoform C |
| XM\_036817523.1 | XP\_036673418.1 | -1.7932 | 0.0668 | NA | NA |
| XM\_036821919.1 | XP\_036677814.1 | 1.3356 | 0.0669 | NA | NA |
| XM\_017072116.2 | XP\_016927605.1 | -0.9210 | 0.0670 | haao | 3-hydroxyanthranilate 3,4-dioxygenase |
| XM\_017075039.2 | XP\_016930528.1 | -2.3760 | 0.0670 | UD2B7 | UDP-glucuronosyltransferase |
| XM\_036818420.1 | XP\_036674315.1 | -1.5627 | 0.0676 | ydbA | GD15101 |
| XM\_017067668.2 | XP\_016923157.1 | -0.9389 | 0.0694 | sev | Protein sevenless |
| XM\_017075339.2 | XP\_016930828.2 | 1.5375 | 0.0694 | DHH1 | ATP-dependent RNA helicase DHH1 |
| XM\_017085675.2 | XP\_016941164.1 | -0.9903 | 0.0694 | Atg7 | Autophagy-related 7, isoform A |
| XM\_017072056.2 | XP\_016927545.1 | -2.5687 | 0.0702 | Dyak\GE11579 | Uncharacterized protein, isoform A |
| XM\_017072121.2 | XP\_016927610.1 | -1.7826 | 0.0706 | csp4 | Chemosensory protein 4 |
| XM\_017068498.2 | XP\_016923987.1 | 1.1794 | 0.0731 | bip | Glucose-regulated protein |
| XM\_017077962.2 | XP\_016933451.2 | -0.7674 | 0.0731 | CG3868 | CG3868 |
| XM\_017090413.2 | XP\_016945902.1 | -0.7437 | 0.0740 | SC6A5 | Transporter |
| XM\_017072684.2 | XP\_016928173.1 | 2.9934 | 0.0743 | MFS1 | Major facilitator superfamily transporter 1 |
| XM\_017075071.2 | XP\_016930560.1 | 1.2873 | 0.0744 | NA | NA |
| XM\_017072365.2 | XP\_016927854.2 | -1.7750 | 0.0758 | Obp56e | Odorant-binding protein 56e |
| XM\_017077467.2 | XP\_016932956.2 | 1.1425 | 0.0758 | NA | NA |
| XM\_017071045.2 | XP\_016926534.2 | 2.7561 | 0.0761 | mcm5 | Heat shock protein 70 |
| XM\_036816729.1 | XP\_036672624.1 | -0.6522 | 0.0761 | CG2767 | CG2767 |
| XM\_036817381.1 | XP\_036673276.1 | -0.7583 | 0.0761 | jar | Myosin heavy chain 95F |
| XM\_017088415.2 | XP\_016943904.1 | 1.3252 | 0.0771 | rempA | Reduced mechanoreceptor potential A, isoform B |
| XM\_036816103.1 | XP\_036671998.1 | -2.5971 | 0.0779 | Dere\GG14181 | Uncharacterized protein, isoform A |
| XM\_036819470.1 | XP\_036675365.1 | 1.1331 | 0.0779 | pol | Retrotransposon ninja DNA |
| XM\_017075483.2 | XP\_016930972.2 | 1.3536 | 0.0800 | Dyak\GE24753 | Uncharacterized protein, isoform C |
| XM\_017078366.2 | XP\_016933855.1 | -5.0320 | 0.0812 | Dsec\GM14751 | GM14751 |
| XM\_017077774.2 | XP\_016933263.1 | 1.1996 | 0.0823 | asms | Asparagine synthase |
| XM\_036819290.1 | XP\_036675185.1 | -3.9467 | 0.0824 | CG6475 | UDP-glucuronosyltransferase |
| XM\_017071440.2 | XP\_016926929.1 | 2.6759 | 0.0856 | slif | LD37241p |
| XM\_017072466.2 | XP\_016927955.1 | 1.2762 | 0.0884 | CG10911 | RE12410p |
| XM\_017080775.2 | XP\_016936264.1 | 1.3502 | 0.0884 | znf992 | Zinc finger protein 182 |
| XM\_017082863.2 | XP\_016938352.1 | -0.9395 | 0.0901 | tolB | Protein TolB |
| XM\_036819192.1 | XP\_036675087.1 | -0.8729 | 0.0910 | Sp7 | Serine protease 7, isoform A |
| XM\_017073757.2 | XP\_016929246.1 | -0.7874 | 0.0913 | Swim | RE01730p |
| XM\_017076433.2 | XP\_016931922.2 | -1.8571 | 0.0915 | CHS5 | Pupal cuticle protein G1A |
| XM\_017077737.2 | XP\_016933226.1 | -1.0723 | 0.0915 | QDPR | Dihydropteridine reductase |
| XM\_017082231.1 | XP\_016937720.1 | -5.3587 | 0.0915 | Dsec\GM24472 | GM24472 |
| XM\_017082031.2 | XP\_016937520.2 | 1.9402 | 0.0931 | IDGF | Insect-derived growth factor |
| XM\_017081295.2 | XP\_016936784.1 | -1.1306 | 0.0932 | NA | NA |
| XM\_036820168.1 | XP\_036676063.1 | -1.3095 | 0.0937 | M090\_3260 | Putative membrane protein |
| XM\_036818796.1 | XP\_036674691.1 | 1.5139 | 0.0953 | Dere\GG12421 | GG12421 |
| XM\_017087068.2 | XP\_016942557.2 | 1.0817 | 0.0959 | NA | NA |
| XM\_017073242.2 | XP\_016928731.1 | -1.6071 | 0.0970 | EbpIII | Ejaculatory bulb-specific protein 3 |
| XM\_017075403.2 | XP\_016930892.2 | 1.4993 | 0.0978 | NA | NA |
| XM\_017085820.2 | XP\_016941309.1 | -2.3662 | 0.0978 | MtnC | Metallothionein C |
| XM\_017089173.2 | XP\_016944662.2 | 1.0076 | 0.0978 | CG5246 | CG5246 |
| XM\_017090251.2 | XP\_016945740.1 | -1.4686 | 0.0978 | pes | Protein croquemort |
| XM\_017069501.2 | XP\_016924990.2 | -1.2805 | 0.0985 | Ugt86Dh | UDP-glucuronosyltransferase |
| XM\_017080575.2 | XP\_016936064.2 | -2.2548 | 0.0985 | CG7465 | Proline-rich 33 kDa extensin-related protein |
| XM\_017070081.2 | XP\_016925570.1 | 1.4140 | 0.0985 | ninaD | Neither inactivation nor afterpotential D, isoform B |
| XM\_017085718.2 | XP\_016941207.1 | -0.8194 | 0.0988 | Dsec\GM20138 | GM20138 |
| XM\_017076471.2 | XP\_016931960.2 | 0.6402 | 0.0992 | mex1 | Protein midgut expression 1 |
| XM\_017079266.2 | XP\_016934755.1 | -1.2614 | 0.0998 | ple | Tyrosine 3-monooxygenase |
| XM\_036819146.1 | XP\_036675041.1 | -2.7303 | 0.0998 | Dper\GL24327 | GL24327 |

**Table S2**. List of significant Differentially Expressed Genes (DEG) associated with stimulus and stress responses upon *S. carpocapsae* infection, with the mRNA identification (ID RNA), the protein identification (ID Protein), and the gene name obtained during the annotation step.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID RNA** | **ID Prot** | **log2FC** | **Gene Name** | **Description** |
| XM\_017077979.2 | XP\_016933468.1 | 2.7754 | Hsp22 | Heat shock protein 22 |
| XM\_017071045.2 | XP\_016926534.2 | 2.7561 | mcm5 | Heat shock protein 70 |
| XM\_017070631.2 | XP\_016926120.1 | 2.5282 | L259 | Putative multidrug resistance-associated prot. |
| XM\_017078742.1 | XP\_016934231.1 | 2.4889 | AcCoAS | Acetyl-coenzyme A synthetase |
| XM\_036818694.1 | XP\_036674589.1 | 2.4752 | AAEL012395 | Multidrug resistance-associated protein |
| XM\_017081867.2 | XP\_016937356.1 | 2.3294 | NPC1 | Niemann-Pick type C-1a |
| XM\_036819139.1 | XP\_036675034.1 | 2.3285 | NCBP1 | CG7907, isoform B |
| XM\_017087632.2 | XP\_016943121.1 | 2.2234 | ACC | Acetyl-CoA carboxylase |
| XM\_036819109.1 | XP\_036675004.1 | 2.1160 | CG7907 | CG7907 |
| XM\_017082002.2 | XP\_016937491.2 | 2.1060 | Cyp12c1 | Probable cytochrome P450 12c1, mitochondrial |
| XM\_017074730.2 | XP\_016930219.1 | 1.5653 | mftc | Mitochondrial folate transporter/carrier |
| XM\_017085672.2 | XP\_016941161.1 | 1.5455 | Mdr49 | Multidrug resistance protein homolog 49 |
| XM\_017075483.2 | XP\_016930972.2 | 1.3536 | Dyak\GE24753 | Uncharacterized protein |
| XM\_017076053.2 | XP\_016931542.2 | 1.3284 | acy1 | Aminoacylase-1 |
| XM\_017088415.2 | XP\_016943904.1 | 1.3252 | rempA | Reduced mechanoreceptor potential A |
| XM\_017081597.2 | XP\_016937086.1 | 1.2819 | ABCA3 | ATP-binding cassette sub-familyA member 3 |
| XM\_017084979.2 | XP\_016940468.1 | 1.2259 | rdh12 | Retinol dehydrogenase 13 |
| XM\_017068498.2 | XP\_016923987.1 | 1.1794 | bip | Glucose-regulated protein |
| XM\_017072588.2 | XP\_016928077.1 | 1.0432 | Dgri\GH19762 | GH19762 |
| XM\_036819056.1 | XP\_036674951.1 | 0.9928 | FANCM | Fanconi anemia group M helicase |
| XM\_017090238.2 | XP\_016945727.1 | 0.9028 | Hydr2 | Abhydrolase domain-containing protein 2 |
| XM\_017085333.2 | XP\_016940822.1 | 0.8070 | Dyak\GE13911 | Uncharacterized protein |
| XM\_036819469.1 | XP\_036675364.1 | -0.7205 | Zip99C | Zinc transporter ZIP13 homolog |
| XM\_036817381.1 | XP\_036673276.1 | -0.7583 | jar | Myosin heavy chain 95F |
| XM\_017072300.2 | XP\_016927789.1 | -0.7602 | FATP | Fatty acid transport protein |
| XM\_017082712.2 | XP\_016938201.1 | -0.8795 | GstZ2 | Probable maleylacetoacetate isomerase 2 |
| XM\_017083560.2 | XP\_016939049.1 | -0.8921 | CG6762 | Putative sulfiredoxin |
| XM\_017083639.2 | XP\_016939128.1 | -0.9264 | Sk1 | RE64552p |
| XM\_017077737.2 | XP\_016933226.1 | -1.0723 | QDPR | Dihydropteridine reductase |
| XM\_017077861.1 | XP\_016933350.1 | -1.1388 | miox | Inositol oxygenase |
| XM\_017089689.2 | XP\_016945178.1 | -1.1723 | bwa | Alkaline ceramidase 2 |
| XM\_017073387.2 | XP\_016928876.1 | -1.1762 | Buffy | AT16536p |
| XM\_017084994.2 | XP\_016940483.1 | -1.2313 | wbl | Protein windbeutel |
| XM\_017079266.2 | XP\_016934755.1 | -1.2614 | ple | Tyrosine 3-monooxygenase |
| XM\_017069501.2 | XP\_016924990.2 | -1.2805 | Ugt86Dh | UDP-glucuronosyltransferase |
| XM\_017090251.2 | XP\_016945740.1 | -1.4686 | pes | Protein croquemort |
| XM\_017073726.2 | XP\_016929215.1 | -1.5085 | Dsec\GM15714 | GM15714 |
| XM\_017073242.2 | XP\_016928731.1 | -1.6071 | EbpIII | Ejaculatory bulb-specific protein 3 |
| XM\_017090466.2 | XP\_016945955.1 | -1.7196 | rdh10 | Epidermal retinol dehydrogenase 2 |
| XM\_017072121.2 | XP\_016927610.1 | -1.7826 | csp4 | Chemosensory protein 4 |
| XM\_017071973.2 | XP\_016927462.1 | -1.8557 | NimC2 | Nimrod C2, isoform A |
| XM\_036821621.1 | XP\_036677516.1 | -2.0700 | Pxd | Peroxidase |
| XM\_036817915.1 | XP\_036673810.1 | -2.1012 | Pxd | Peroxidase |
| XM\_017086968.2 | XP\_016942457.1 | -2.2637 | opt1 | Solute carrier family 15 member |
| XM\_017085820.2 | XP\_016941309.1 | -2.3662 | MtnC | Metallothionein C |
| XM\_017075039.2 | XP\_016930528.1 | -2.3760 | UD2B7 | UDP-glucuronosyltransferase 1-2 |
| XM\_017069078.2 | XP\_016924567.1 | -2.4443 | Dana\GF23444 | Uncharacterized protein |
| XM\_036819290.1 | XP\_036675185.1 | -3.9467 | CG6475 | UDP-glucuronosyltransferase |
| XM\_036816950.1 | XP\_036672845.1 | -4.1303 | CG6475 | UDP-glucuronosyltransferase |
| XM\_017068484.2 | XP\_016923973.1 | -6.5723 | sao | Glucose dehydrogenase (FAD, quinone) |