Supplementary Material

for

Unveiling the molecular arsenal: Genome sequencing and *in silico* secretome analysis of *Fusarium verticillioides* provide insights into maize root rot pathogenesis

**Supplementary Table 1.** Set of secreted proteins obtained in *Fusarium verticillioides* (DA42 strain) annotated according to secretome pipeline

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **contig** | **chromosome** | **gene name** | **Refseq protein** | **Product** |
| contig00001.g2 | NC\_031675.1 | FVEG\_00003 | XP\_018741975.1 | Uncharacterized protein |
| contig00001.g14 | NC\_031675.1 | FVEG\_00014 | XP\_018741988.1 | GEgh 16 protein |
| contig00001.g26 | NC\_031675.1 | FVEG\_00027 | XP\_018742012.1 | Subtilisin |
| contig00001.g46 | NC\_031675.1 | FVEG\_00044 | XP\_018742035.1 | glucan endo-1,3-beta-D-glucosidase (EC 3.2.1.39) |
| contig00001.g47 | NC\_031675.1 | FVEG\_00045 | XP\_018742036.1 | Peptidase A1 domain-containing protein |
| contig00001.g63 | NC\_031675.1 | FVEG\_00062 | XP\_018742052.1 | Multiprotein-bridging factor 1 |
| contig00001.g64 | NC\_031675.1 | FVEG\_00063 | XP\_018742053.1 | Uncharacterized protein |
| contig00005.g3722 | NC\_031675.1 | FVEG\_00094 | XP\_018742096.1 | Uncharacterized protein |
| contig00001.g99 | NC\_031675.1 | FVEG\_00097 | XP\_018742099.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00001.g122 | NC\_031675.1 | FVEG\_00120 | XP\_018742128.1 | Glycan binding protein Y3-like domain-containing protein |
| contig00001.g124 | NC\_031675.1 | FVEG\_00121 | XP\_018742130.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00001.g127 | NC\_031675.1 | FVEG\_00123 | XP\_018742133.1 | Cyanovirin-N domain-containing protein |
| contig00001.g141 | NC\_031675.1 | FVEG\_00136 | XP\_018742148.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00001.g201 | NC\_031675.1 | FVEG\_00200 | XP\_018742223.1 | GH16 domain-containing protein |
| contig00001.g211 | NC\_031675.1 | FVEG\_00212 | XP\_018742236.1 | Cerevisin |
| contig00001.g224 | NC\_031675.1 | FVEG\_00226 | XP\_018742253.1 | Uncharacterized protein |
| contig00001.g247 | NC\_031675.1 | FVEG\_00250 | XP\_018742281.1 | Transcription factor domain-containing protein |
| contig00001.g258 | NC\_031675.1 | FVEG\_00262 | XP\_018742298.1 | Glucose-methanol-choline oxidoreductase |
| contig00001.g261 | NC\_031675.1 | FVEG\_00265 | XP\_018742303.1 | Uncharacterized protein |
| contig00001.g267 | NC\_031675.1 | FVEG\_00271 | XP\_018742311.1 | Counting factor 60 |
| contig00001.g268 | NC\_031675.1 | FVEG\_00272 | XP\_018742313.1 | SET domain-containing protein |
| contig00001.g269 | NC\_031675.1 | FVEG\_00273 | XP\_018742314.1 | Ecp2 effector protein-like domain-containing protein |
| contig00001.g287 | NC\_031675.1 | FVEG\_00291 | XP\_018742342.1 | Sialidase-1 |
| contig00001.g294 | NC\_031675.1 | FVEG\_00297 | XP\_018742350.1 | Uncharacterized protein |
| contig00001.g295 | NC\_031675.1 | FVEG\_00298 | XP\_018742351.1 | Uncharacterized protein |
| contig00001.g346 | NC\_031675.1 | FVEG\_00352 | XP\_018742438.1 | Glycosyl hydrolase |
| contig00001.g365 | NC\_031675.1 | FVEG\_00370 | XP\_018742465.1 | Subtilisin |
| contig00001.g402 | NC\_031675.1 | FVEG\_00392 | XP\_018742496.1 | MUC1 Extracellular alpha-1,4-glucan glucosidase |
| contig00001.g407 | NC\_031675.1 | FVEG\_00396 | XP\_018742507.1 | Acetylxylan esterase |
| contig00001.g408 | NC\_031675.1 | FVEG\_00397 | XP\_018742509.1 | Acetylxylan esterase 2 |
| contig00001.g544 | NC\_031675.1 | FVEG\_00537 | XP\_018742751.1 | alpha-1,2-Mannosidase (EC 3.2.1.-) |
| contig00001.g562 | NC\_031675.1 | FVEG\_00554 | XP\_018742801.1 | Spore coat protein SP96 |
| contig00001.g635 | NC\_031675.1 | FVEG\_00632 | XP\_018742928.1 | glucan endo-1,3-beta-D-glucosidase (EC 3.2.1.39) |
| contig00001.g646 | NC\_031675.1 | FVEG\_00645 | XP\_018742941.1 | DUF7492 domain-containing protein |
| contig00001.g756 | NC\_031675.1 | FVEG\_00761 | XP\_018743106.1 | Asl1-like glycosyl hydrolase catalytic domain-containing protein |
| contig00001.g836 | NC\_031675.1 | FVEG\_00846 | XP\_018743266.1 | IDI-2 |
| contig00001.g898 | NC\_031675.1 | FVEG\_00910 | XP\_018743393.1 | Terpene synthase (EC 4.2.3.-) |
| contig00001.g1022 | NC\_031675.1 | FVEG\_01038 | XP\_018743616.1 | Chromatin structure-remodeling complex subunit SFH1 |
| contig00001.g1046 | NC\_031675.1 | FVEG\_01064 | XP\_018743654.1 | Uncharacterized protein |
| contig00001.g1084 | NC\_031675.1 | FVEG\_01111 | XP\_018743716.1 | Uncharacterized protein |
| contig00001.g1086 | NC\_031675.1 | FVEG\_01112 | XP\_018743718.1 | Rhamnogalacturonate lyase (EC 4.2.2.23) |
| contig00001.g1208 | NC\_031675.1 | FVEG\_01240 | XP\_018743933.1 | chitinase (EC 3.2.1.14) |
| contig00001.g1210 | NC\_031675.1 | FVEG\_01243 | XP\_018743938.1 | Uncharacterized protein |
| contig00001.g1243 | NC\_031675.1 | FVEG\_01275 | XP\_018743978.1 | Endopolyphosphatase (EC 3.6.1.10) |
| contig00001.g1263 | NC\_031675.1 | FVEG\_01295 | XP\_018744031.1 | Uncharacterized protein |
| contig00001.g1320 | NC\_031675.1 | FVEG\_01351 | XP\_018744157.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00001.g1330 | NC\_031675.1 | FVEG\_01361 | XP\_018744181.1 | Protein transport protein YOS1 |
| contig00001.g1337 | NC\_031675.1 | FVEG\_01368 | XP\_018744196.1 | AA1-like domain-containing protein |
| contig00001.g1338 | NC\_031675.1 | FVEG\_01369 | XP\_018744197.1 | Fungal lipase-type domain-containing protein |
| contig00032.g13164 | NC\_031675.1 | FVEG\_01377 | XP\_018744207.1 | Protein disulfide-isomerase (EC 5.3.4.1) |
| contig00032.g13126 | NC\_031675.1 | FVEG\_01414 | XP\_018744263.1 | Beta-hexosaminidase (EC 3.2.1.52) |
| contig00032.g13061 | NC\_031675.1 | FVEG\_01486 | XP\_018744406.1 | Murein transglycosylase |
| contig00016.g8870 | NC\_031675.1 | FVEG\_09484 | XP\_018756370.1 | peptidylprolyl isomerase (EC 5.2.1.8) |
| contig00016.g8929 | NC\_031675.1 | FVEG\_09545 | XP\_018756470.1 | EF-hand domain-containing protein |
| contig00016.g8931 | NC\_031675.1 | FVEG\_09547 | XP\_018756472.1 | Uncharacterized protein |
| contig00016.g8991 | NC\_031675.1 | FVEG\_09611 | XP\_018756561.1 | FMN hydroxy acid dehydrogenase domain-containing protein |
| contig00016.g9028 | NC\_031675.1 | FVEG\_09653 | XP\_018756619.1 | Cutinase (EC 3.1.1.74) |
| contig00016.g9069 | NC\_031675.1 | FVEG\_09694 | XP\_018756682.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00016.g9076 | NC\_031675.1 | FVEG\_09702 | XP\_018756690.1 | pectin lyase (EC 4.2.2.10) |
| contig00016.g9087 | NC\_031675.1 | FVEG\_09713 | XP\_018756708.1 | LicD/FKTN/FKRP nucleotidyltransferase domain-containing protein |
| contig00016.g9093 | NC\_031675.1 | FVEG\_09719 | XP\_018756716.1 | cellulase (EC 3.2.1.4) |
| contig00030.g12789 | NC\_031675.1 | FVEG\_09724 | XP\_018756722.1 | Histone H2A |
| contig00016.g9130 | NC\_031675.1 | FVEG\_09758 | XP\_018756773.1 | Uncharacterized protein |
| contig00016.g9143 | NC\_031675.1 | FVEG\_09770 | XP\_018756793.1 | Uncharacterized protein |
| contig00016.g9144 | NC\_031675.1 | FVEG\_09772 | XP\_018756795.1 | Beta-glucosidase |
| contig00016.g9151 | NC\_031675.1 | FVEG\_09778 | XP\_018756809.1 | Uncharacterized protein |
| contig00005.g3662 | NC\_031675.1 | FVEG\_09821 | XP\_018756867.1 | protein disulfide-isomerase (EC 5.3.4.1) |
| contig00005.g3659 | NC\_031675.1 | FVEG\_09824 | XP\_018756871.1 | D-amino-acid oxidase |
| contig00005.g3657 | NC\_031675.1 | FVEG\_09826 | XP\_018756873.1 | Oxidoreductase |
| contig00005.g3652 | NC\_031675.1 | FVEG\_09828 | XP\_018756876.1 | Cyanovirin-N domain-containing protein |
| contig00005.g3635 | NC\_031675.1 | FVEG\_09843 | XP\_018756894.1 | Hydrophobin |
| contig00005.g3634 | NC\_031675.1 | FVEG\_09844 | XP\_018756895.1 | Hydrophobin |
| contig00005.g3619 | NC\_031675.1 | FVEG\_09857 | XP\_018756910.1 | Fibronectin type-III domain-containing protein |
| contig00005.g3612 | NC\_031675.1 | FVEG\_09861 | XP\_018756916.1 | xylan 1,4-beta-xylosidase (EC 3.2.1.37) |
| contig00005.g3564 | NC\_031675.1 | FVEG\_09913 | XP\_018756973.1 | Uncharacterized protein |
| contig00005.g3562 | NC\_031675.1 | FVEG\_09915 | XP\_018756976.1 | Apple domain-containing protein |
| contig00005.g3543 | NC\_031675.1 | FVEG\_09935 | XP\_018756996.1 | Ig-like domain-containing protein |
| contig00005.g3535 | NC\_031675.1 | FVEG\_09943 | XP\_018757004.1 | Uncharacterized protein |
| contig00005.g3532 | NC\_031675.1 | FVEG\_09947 | XP\_018757008.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00005.g3523 | NC\_031675.1 | FVEG\_09955 | XP\_018757017.1 | SCP domain-containing protein |
| contig00001.g3 | NC\_031675.1 | FVEG\_14562 | XP\_018741976.1 | Cytochrome P450 oxidoreductase |
| contig00001.g51 | NC\_031675.1 | FVEG\_14574 | XP\_018742040.1 | Uncharacterized protein |
| contig00001.g167 | NC\_031675.1 | FVEG\_14597 | XP\_018742178.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00001.g491 | NC\_031675.1 | FVEG\_14670 | XP\_018742654.1 | Uncharacterized protein |
| contig00005.g3640 | NC\_031675.1 | FVEG\_16679 | XP\_018756890.1 | Trichothecene biosynthesis protein |
| contig00005.g3620 | NC\_031675.1 | FVEG\_16681 | XP\_018756909.1 | Uncharacterized protein |
| contig00005.g3526 | NC\_031675.1 | FVEG\_16697 | XP\_018757014.1 | Zn(2)-C6 fungal-type domain-containing protein |
| contig00031.g12848 | NC\_031676.1 | FVEG\_03433 | XP\_018747485.1 | Alkaline foam protein B |
| contig00031.g12857 | NC\_031676.1 | FVEG\_03442 | XP\_018747495.1 | WSC domain-containing protein |
| contig00031.g12859 | NC\_031676.1 | FVEG\_03444 | XP\_018747497.1 | PBP domain-containing protein |
| contig00031.g12874 | NC\_031676.1 | FVEG\_03457 | XP\_018747512.1 | Beta-lactamase-related domain-containing protein |
| contig00031.g12880 | NC\_031676.1 | FVEG\_03463 | XP\_018747518.1 | mannan endo-1,4-beta-mannosidase (EC 3.2.1.78) |
| contig00031.g12882 | NC\_031676.1 | FVEG\_03465 | XP\_018747520.1 | Apple domain-containing protein |
| contig00031.g12908 | NC\_031676.1 | FVEG\_03492 | XP\_018747544.1 | Killer toxin Kp4 domain-containing protein |
| contig00031.g12910 | NC\_031676.1 | FVEG\_03494 | XP\_018747547.1 | tripeptidyl-peptidase II (EC 3.4.14.10) |
| contig00031.g12919 | NC\_031676.1 | FVEG\_03505 | XP\_018747565.1 | Uncharacterized protein |
| contig00031.g12920 | NC\_031676.1 | FVEG\_03506 | XP\_018747566.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00031.g12933 | NC\_031676.1 | FVEG\_03519 | XP\_018747580.1 | Pectate lyase (EC 4.2.2.2) |
| contig00031.g12936 | NC\_031676.1 | FVEG\_03522 | XP\_018747584.1 | Uncharacterized protein |
| contig00031.g12937 | NC\_031676.1 | FVEG\_03523 | XP\_018747587.1 | Killer toxin Kp4 domain-containing protein |
| contig00031.g12938 | NC\_031676.1 | FVEG\_03524 | XP\_018747588.1 | Killer toxin Kp4 domain-containing protein |
| contig00031.g12939 | NC\_031676.1 | FVEG\_03525 | XP\_018747589.1 | Killer toxin Kp4 domain-containing protein |
| contig00031.g12940 | NC\_031676.1 | FVEG\_03526 | XP\_018747590.1 | Glucose-methanol-choline oxidoreductase |
| contig00031.g12942 | NC\_031676.1 | FVEG\_03528 | XP\_018747593.1 | Uncharacterized protein |
| contig00031.g12943 | NC\_031676.1 | FVEG\_03529 | XP\_018747594.1 | Ig-like domain-containing protein |
| contig00031.g12983 | NC\_031676.1 | FVEG\_03576 | XP\_018747651.1 | Uncharacterized protein |
| contig00031.g12984 | NC\_031676.1 | FVEG\_03577 | XP\_018747652.1 | Endoplasmic oxidoreductin-1 |
| contig00031.g12999 | NC\_031676.1 | FVEG\_03591 | XP\_018747671.1 | Uncharacterized protein |
| contig00031.g13022 | NC\_031676.1 | FVEG\_03617 | XP\_018747710.1 | LysM domain-containing protein |
| contig00031.g13025 | NC\_031676.1 | FVEG\_03620 | XP\_018747713.1 | Uncharacterized protein |
| contig00031.g13028 | NC\_031676.1 | FVEG\_03623 | XP\_018747716.1 | LysM domain-containing protein |
| contig00007.g4793 | NC\_031676.1 | FVEG\_03639 | XP\_018747739.1 | LicD/FKTN/FKRP nucleotidyltransferase domain-containing protein |
| contig00007.g4796 | NC\_031676.1 | FVEG\_03642 | XP\_018747742.1 | beta-glucosidase (EC 3.2.1.21) |
| contig00007.g4802 | NC\_031676.1 | FVEG\_03648 | XP\_018747751.1 | Dipeptidase |
| contig00007.g4806 | NC\_031676.1 | FVEG\_03654 | XP\_018747758.1 | Uncharacterized protein |
| contig00007.g4809 | NC\_031676.1 | FVEG\_03657 | XP\_018747762.1 | Glutathione hydrolase (EC 2.3.2.2) (EC 3.4.19.13) |
| contig00007.g4816 | NC\_031676.1 | FVEG\_03664 | XP\_018747769.1 | Kelch repeat-containing protein |
| contig00007.g4820 | NC\_031676.1 | FVEG\_03669 | XP\_018747775.1 | Ubiquitin 3 binding protein But2 C-terminal domain-containing protein |
| contig00007.g4826 | NC\_031676.1 | FVEG\_03675 | XP\_018747782.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00007.g4833 | NC\_031676.1 | FVEG\_03682 | XP\_018747791.1 | Uncharacterized protein |
| contig00007.g4834 | NC\_031676.1 | FVEG\_03683 | XP\_018747792.1 | Uncharacterized protein |
| contig00007.g4835 | NC\_031676.1 | FVEG\_03684 | XP\_018747793.1 | Peptidase M43 pregnancy-associated plasma |
| contig00007.g4844 | NC\_031676.1 | FVEG\_03690 | XP\_018747803.1 | Uncharacterized protein |
| contig00007.g4847 | NC\_031676.1 | FVEG\_03694 | XP\_018747806.1 | L-amino-acid oxidase |
| contig00007.g4861 | NC\_031676.1 | FVEG\_03708 | XP\_018747826.1 | Killer toxin Kp4 domain-containing protein |
| contig00007.g4879 | NC\_031676.1 | FVEG\_03727 | XP\_018747845.1 | Phosphatidylcholine-sterol acyltransferase |
| contig00007.g4890 | NC\_031676.1 | FVEG\_03738 | XP\_018747858.1 | GEgh 16 protein |
| contig00007.g4906 | NC\_031676.1 | FVEG\_03751 | XP\_018747876.1 | Uncharacterized protein |
| contig00005.g3516 | NC\_031676.1 | FVEG\_03871 | XP\_018748066.1 | Protein Zds1 C-terminal domain-containing protein |
| contig00007.g5062 | NC\_031676.1 | FVEG\_03905 | XP\_018748115.1 | Pectate lyase C |
| contig00007.g5063 | NC\_031676.1 | FVEG\_03906 | XP\_018748116.1 | GH16 domain-containing protein |
| contig00007.g5085 | NC\_031676.1 | FVEG\_03930 | XP\_018748143.1 | Peptidase S8/S53 domain-containing protein |
| contig00007.g5113 | NC\_031676.1 | FVEG\_03960 | XP\_018748188.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00007.g5124 | NC\_031676.1 | FVEG\_03971 | XP\_018748206.1 | Circumsporozoite protein |
| contig00007.g5142 | NC\_031676.1 | FVEG\_03990 | XP\_018748229.1 | Agglutinin-like protein 2 |
| contig00007.g5149 | NC\_031676.1 | FVEG\_03997 | XP\_018748236.1 | Rhamnogalacturonase A/B/Epimerase-like pectate lyase domain |
| contig00007.g5172 | NC\_031676.1 | FVEG\_04019 | XP\_018748269.1 | Endoplasmic reticulum chaperone BIP (EC 3.6.4.10) |
| contig00007.g5175 | NC\_031676.1 | FVEG\_04022 | XP\_018748272.1 | Endonuclease/exonuclease/phosphatase domain-containing protein |
| contig00007.g5222 | NC\_031676.1 | FVEG\_04071 | XP\_018748340.1 | Tyrosinase copper-binding domain-containing protein |
| contig00007.g5249 | NC\_031676.1 | FVEG\_04097 | XP\_018748385.1 | SCP domain-containing protein |
| contig00007.g5273 | NC\_031676.1 | FVEG\_04124 | XP\_018748428.1 | Uncharacterized protein |
| contig00007.g5289 | NC\_031676.1 | FVEG\_04141 | XP\_018748454.1 | Phosphatidylglycerol/phosphatidylinositol transfer protein |
| contig00035.g13536 | NC\_031676.1 | FVEG\_04196 | XP\_018748557.1 | Laccase-2 |
| contig00035.g13603 | NC\_031676.1 | FVEG\_04262 | XP\_018748655.1 | Ecp2 effector protein-like domain-containing protein |
| contig00035.g13607 | NC\_031676.1 | FVEG\_04266 | XP\_018748664.1 | Glycolipid 2-alpha-mannosyltransferase |
| contig00035.g13618 | NC\_031676.1 | FVEG\_04278 | XP\_018748677.1 | Uncharacterized protein |
| contig00012.g7656 | NC\_031676.1 | FVEG\_05801 | XP\_018751007.1 | galacturonan 1,4-alpha-galacturonidase (EC 3.2.1.67) |
| contig00012.g7654 | NC\_031676.1 | FVEG\_05803 | XP\_018751009.1 | WSC domain-containing protein |
| contig00012.g7644 | NC\_031676.1 | FVEG\_05815 | XP\_018751028.1 | Uncharacterized protein |
| contig00012.g7638 | NC\_031676.1 | FVEG\_05821 | XP\_018751037.1 | Uncharacterized protein |
| contig00012.g7620 | NC\_031676.1 | FVEG\_05840 | XP\_018751062.1 | Uncharacterized protein |
| contig00012.g7612 | NC\_031676.1 | FVEG\_05849 | XP\_018751073.1 | Agglutinin-like protein 2 |
| contig00012.g7595 | NC\_031676.1 | FVEG\_05867 | XP\_018751093.1 | Ig-like domain-containing protein |
| contig00012.g7590 | NC\_031676.1 | FVEG\_05871 | XP\_018751100.1 | GH16 domain-containing protein |
| contig00012.g7566 | NC\_031676.1 | FVEG\_05898 | XP\_018751128.1 | Uncharacterized protein |
| contig00012.g7565 | NC\_031676.1 | FVEG\_05899 | XP\_018751130.1 | Cupin type-1 domain-containing protein |
| contig00012.g7564 | NC\_031676.1 | FVEG\_05900 | XP\_018751131.1 | Apple domain-containing protein |
| contig00016.g9160 | NC\_031676.1 | FVEG\_05913 | XP\_018751145.1 | Zn(2)-C6 fungal-type domain-containing protein |
| contig00012.g7522 | NC\_031676.1 | FVEG\_05942 | XP\_018751181.1 | LysM domain-containing protein |
| contig00012.g7511 | NC\_031676.1 | FVEG\_05945 | XP\_018751184.1 | Hydrophobin |
| contig00012.g7514 | NC\_031676.1 | FVEG\_05948 | XP\_018751188.1 | Uncharacterized protein |
| contig00012.g7434 | NC\_031676.1 | FVEG\_06027 | XP\_018751290.1 | Acetylornithine deacetylase |
| contig00012.g7426 | NC\_031676.1 | FVEG\_06038 | XP\_018751307.1 | Pheromone protein 1 |
| contig00012.g7425 | NC\_031676.1 | FVEG\_06039 | XP\_018751308.1 | 3-phytase |
| contig00012.g7400 | NC\_031676.1 | FVEG\_06068 | XP\_018751350.1 | Cupin type-1 domain-containing protein |
| contig00012.g7302 | NC\_031676.1 | FVEG\_06174 | XP\_018751543.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00012.g7282 | NC\_031676.1 | FVEG\_06194 | XP\_018751574.1 | Cell wall protein SED1 |
| contig00012.g7266 | NC\_031676.1 | FVEG\_06212 | XP\_018751600.1 | Methyl-accepting transducer domain-containing protein |
| contig00024.g11452 | NC\_031676.1 | FVEG\_06297 | XP\_018751729.1 | FAS1 domain-containing protein |
| contig00024.g11586 | NC\_031676.1 | FVEG\_06439 | XP\_018751951.1 | Arabinosidase |
| contig00024.g11590 | NC\_031676.1 | FVEG\_06442 | XP\_018751956.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00024.g11608 | NC\_031676.1 | FVEG\_06459 | XP\_018751992.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00031.g12850 | NC\_031676.1 | FVEG\_15264 | XP\_018747488.1 | WSC domain-containing protein |
| contig00031.g12884 | NC\_031676.1 | FVEG\_15271 | XP\_018747521.1 | Helicase ATP-binding domain-containing protein |
| contig00031.g13027 | NC\_031676.1 | FVEG\_15301 | XP\_018747715.1 | Secreted in xylem 14 |
| contig00007.g4778 | NC\_031676.1 | FVEG\_15302 | XP\_018747719.1 | Oxidoreductase |
| contig00007.g4780 | NC\_031676.1 | FVEG\_15303 | XP\_018747721.1 | Major facilitator superfamily (MFS) profile domain-containing protein |
| contig00007.g4977 | NC\_031676.1 | FVEG\_15341 | XP\_018747995.1 | Ig-like domain-containing protein |
| contig00007.g5053 | NC\_031676.1 | FVEG\_15359 | XP\_018748102.1 | SNF2 N-terminal domain-containing protein |
| contig00012.g7513 | NC\_031676.1 | FVEG\_15768 | XP\_018751187.1 | Uncharacterized protein |
| contig00003.g2539 | NC\_031677.1 | FVEG\_05347 | XP\_018750393.1 | WSC domain-containing protein |
| contig00003.g2496 | NC\_031677.1 | FVEG\_05394 | XP\_018750471.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00003.g2464 | NC\_031677.1 | FVEG\_05433 | XP\_018750532.1 | Questionable protein |
| contig00003.g2400 | NC\_031677.1 | FVEG\_05497 | XP\_018750627.1 | Thioredoxin 1 |
| contig00003.g2388 | NC\_031677.1 | FVEG\_05503 | XP\_018750640.1 | Uncharacterized protein |
| contig00003.g2384 | NC\_031677.1 | FVEG\_05507 | XP\_018750644.1 | Rhamnogalacturonase A/B/Epimerase-like pectate lyase domain |
| contig00003.g2382 | NC\_031677.1 | FVEG\_05510 | XP\_018750649.1 | Peptidase M20 domain-containing protein 2 |
| contig00003.g2378 | NC\_031677.1 | FVEG\_05513 | XP\_018750653.1 | Alkaline phosphatase |
| contig00003.g2368 | NC\_031677.1 | FVEG\_05521 | XP\_018750667.1 | beta-glucosidase (EC 3.2.1.21) |
| contig00003.g2350 | NC\_031677.1 | FVEG\_05540 | XP\_018750690.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00003.g2331 | NC\_031677.1 | FVEG\_05561 | XP\_018750726.1 | Peptidase S8/S53 domain-containing protein |
| contig00003.g2300 | NC\_031677.1 | FVEG\_05596 | XP\_018750763.1 | Chitin binding protein |
| contig00003.g2292 | NC\_031677.1 | FVEG\_05601 | XP\_018750771.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00003.g2253 | NC\_031677.1 | FVEG\_05642 | XP\_018750821.1 | Chitin-binding type-4 domain-containing protein |
| contig00003.g2246 | NC\_031677.1 | FVEG\_05650 | XP\_018750831.1 | Peptidase A1 domain-containing protein |
| contig00003.g2242 | NC\_031677.1 | FVEG\_05654 | XP\_018750835.1 | AB hydrolase-1 domain-containing protein |
| contig00003.g2238 | NC\_031677.1 | FVEG\_05658 | XP\_018750839.1 | Carboxypeptidase D |
| contig00003.g2214 | NC\_031677.1 | FVEG\_05679 | XP\_018750867.1 | Expansin-like EG45 domain-containing protein |
| contig00003.g2203 | NC\_031677.1 | FVEG\_05689 | XP\_018750882.1 | non-reducing end alpha-L-arabinofuranosidase (EC 3.2.1.55) |
| contig00003.g2200 | NC\_031677.1 | FVEG\_05691 | XP\_018750885.1 | AB hydrolase-1 domain-containing protein |
| contig00003.g2196 | NC\_031677.1 | FVEG\_05694 | XP\_018750889.1 | Uncharacterized protein |
| contig00003.g2193 | NC\_031677.1 | FVEG\_05697 | XP\_018750892.1 | Murein transglycosylase |
| contig00003.g2190 | NC\_031677.1 | FVEG\_05699 | XP\_018750894.1 | Amidohydrolase ytcJ-like |
| contig00003.g2189 | NC\_031677.1 | FVEG\_05700 | XP\_018750895.1 | pectin lyase (EC 4.2.2.10) |
| contig00003.g2176 | NC\_031677.1 | FVEG\_05714 | XP\_018750907.1 | Uncharacterized protein |
| contig00003.g2173 | NC\_031677.1 | FVEG\_05717 | XP\_018750910.1 | PA14 domain-containing protein |
| contig00003.g2166 | NC\_031677.1 | FVEG\_05726 | XP\_018750918.1 | Manganese lipoxygenase (EC 1.13.11.45) |
| contig00003.g2162 | NC\_031677.1 | FVEG\_05729 | XP\_018750922.1 | Apple domain-containing protein |
| contig00003.g2161 | NC\_031677.1 | FVEG\_05730 | XP\_018750923.1 | Apple domain-containing protein |
| contig00003.g2154 | NC\_031677.1 | FVEG\_05738 | XP\_018750934.1 | Ecp2 effector protein domain-containing protein |
| contig00003.g2153 | NC\_031677.1 | FVEG\_05739 | XP\_018750935.1 | Uncharacterized protein |
| contig00003.g2152 | NC\_031677.1 | FVEG\_05740 | XP\_018750936.1 | Hydrophobin |
| contig00003.g2146 | NC\_031677.1 | FVEG\_05745 | XP\_018750943.1 | Uncharacterized protein |
| contig00003.g2136 | NC\_031677.1 | FVEG\_05753 | XP\_018750953.1 | Intradiol ring-cleavage dioxygenases domain-containing protein |
| contig00003.g2126 | NC\_031677.1 | FVEG\_05763 | XP\_018750963.1 | Peptidase A1 domain-containing protein |
| contig00003.g2125 | NC\_031677.1 | FVEG\_05764 | XP\_018750964.1 | Amidase domain-containing protein |
| contig00003.g2118 | NC\_031677.1 | FVEG\_05772 | XP\_018750973.1 | NodB homology domain-containing protein |
| contig00003.g2116 | NC\_031677.1 | FVEG\_05774 | XP\_018750975.1 | Uncharacterized protein |
| contig00003.g2112 | NC\_031677.1 | FVEG\_05778 | XP\_018750980.1 | Linalool dehydratase/isomerase domain-containing protein |
| contig00015.g8562 | NC\_031677.1 | FVEG\_07833 | XP\_018754006.1 | Uncharacterized protein |
| contig00015.g8619 | NC\_031677.1 | FVEG\_07889 | XP\_018754089.1 | alkaline phosphatase (EC 3.1.3.1) |
| contig00015.g8709 | NC\_031677.1 | FVEG\_07981 | XP\_018754243.1 | protein disulfide-isomerase (EC 5.3.4.1) |
| contig00027.g12245 | NC\_031677.1 | FVEG\_08190 | XP\_018754597.1 | GmrSD restriction endonucleases C-terminal domain |
| contig00020.g10583 | NC\_031677.1 | FVEG\_12524 | XP\_018760458.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00020.g10581 | NC\_031677.1 | FVEG\_12526 | XP\_018760461.1 | Metallo-beta-lactamase domain-containing protein |
| contig00020.g10568 | NC\_031677.1 | FVEG\_12539 | XP\_018760478.1 | AB hydrolase-1 domain-containing protein |
| contig00020.g10561 | NC\_031677.1 | FVEG\_12546 | XP\_018760488.1 | Carboxypeptidase M14B (Carboxypeptidase MCPB) |
| contig00020.g10554 | NC\_031677.1 | FVEG\_12553 | XP\_018760496.1 | alpha-L-fucosidase (EC 3.2.1.51) |
| contig00020.g10521 | NC\_031677.1 | FVEG\_12585 | XP\_018760536.1 | Uncharacterized protein |
| contig00031.g12887 | NC\_031677.1 | FVEG\_12594 | XP\_018760553.1 | glucan 1,3-beta-glucosidase (EC 3.2.1.58) |
| contig00020.g10500 | NC\_031677.1 | FVEG\_12602 | XP\_018760566.1 | Uncharacterized protein |
| contig00020.g10484 | NC\_031677.1 | FVEG\_12615 | XP\_018760585.1 | Amine oxidase domain-containing protein |
| contig00020.g10482 | NC\_031677.1 | FVEG\_12617 | XP\_018760587.1 | NACHT domain-containing protein |
| contig00020.g10456 | NC\_031677.1 | FVEG\_12643 | XP\_018760616.1 | chitinase (EC 3.2.1.14) |
| contig00020.g10435 | NC\_031677.1 | FVEG\_12666 | XP\_018760641.1 | Alpha-L-arabinofuranosidase (EC 3.2.1.55) |
| contig00020.g10432 | NC\_031677.1 | FVEG\_12670 | XP\_018760644.1 | Cyanovirin-N domain-containing protein |
| contig00020.g10421 | NC\_031677.1 | FVEG\_12682 | XP\_018760659.1 | Uncharacterized protein |
| contig00020.g10401 | NC\_031677.1 | FVEG\_12704 | XP\_018760685.1 | chitinase (EC 3.2.1.14) |
| contig00020.g10387 | NC\_031677.1 | FVEG\_12716 | XP\_018760700.1 | Uncharacterized protein |
| contig00020.g10384 | NC\_031677.1 | FVEG\_12719 | XP\_018760703.1 | Dockerin type 1 |
| contig00020.g10381 | NC\_031677.1 | FVEG\_12722 | XP\_018760709.1 | mannan endo-1,4-beta-mannosidase (EC 3.2.1.78) |
| contig00020.g10375 | NC\_031677.1 | FVEG\_12728 | XP\_018760716.1 | PA14 domain-containing protein |
| contig00020.g10370 | NC\_031677.1 | FVEG\_12733 | XP\_018760724.1 | FAD/NAD(P)-binding domain-containing protein |
| contig00020.g10360 | NC\_031677.1 | FVEG\_12744 | XP\_018760740.1 | galacturonan 1,4-alpha-galacturonidase (EC 3.2.1.67) |
| contig00020.g10339 | NC\_031677.1 | FVEG\_12765 | XP\_018760771.1 | Extracellular serine-rich protein |
| contig00020.g10338 | NC\_031677.1 | FVEG\_12766 | XP\_018760772.1 | pectinesterase (EC 3.1.1.11) |
| contig00020.g10333 | NC\_031677.1 | FVEG\_12770 | XP\_018760777.1 | Apple domain-containing protein |
| contig00020.g10323 | NC\_031677.1 | FVEG\_12780 | XP\_018760792.1 | Purine nucleoside permease |
| contig00020.g10297 | NC\_031677.1 | FVEG\_12804 | XP\_018760835.1 | chitinase (EC 3.2.1.14) |
| contig00020.g10296 | NC\_031677.1 | FVEG\_12805 | XP\_018760836.1 | glycerophosphodiester phosphodiesterase (EC 3.1.4.46) |
| contig00015.g8628 | NC\_031677.1 | FVEG\_16208 | XP\_018754104.1 | Uncharacterized protein |
| contig00027.g12280 | NC\_031677.1 | FVEG\_16262 | XP\_018754546.1 | BZIP domain-containing protein |
| contig00020.g10510 | NC\_031677.1 | FVEG\_17305 | XP\_018760550.1 | Invertebrate defensins family profile domain-containing protein |
| contig00020.g10490 | NC\_031677.1 | FVEG\_17310 | XP\_018760579.1 | Uncharacterized protein |
| contig00020.g10406 | NC\_031677.1 | FVEG\_17330 | XP\_018760680.1 | Uncharacterized protein |
| contig00002.g2076 | NC\_031678.1 | FVEG\_04310 | XP\_018748724.1 | Purple acid phosphatase (EC 3.1.3.2) |
| contig00002.g2061 | NC\_031678.1 | FVEG\_04325 | XP\_018748747.1 | Linalool dehydratase/isomerase domain-containing protein |
| contig00002.g2060 | NC\_031678.1 | FVEG\_04326 | XP\_018748748.1 | Uncharacterized protein |
| contig00002.g2033 | NC\_031678.1 | FVEG\_04351 | XP\_018748778.1 | Uncharacterized protein |
| contig00002.g2016 | NC\_031678.1 | FVEG\_04367 | XP\_018748798.1 | Uncharacterized protein |
| contig00002.g2015 | NC\_031678.1 | FVEG\_04368 | XP\_018748799.1 | Amine oxidase (EC 1.4.3.-) |
| contig00002.g2014 | NC\_031678.1 | FVEG\_04369 | XP\_018748800.1 | Amidase domain-containing protein |
| contig00002.g1990 | NC\_031678.1 | FVEG\_04390 | XP\_018748826.1 | FAD-binding domain-containing protein |
| contig00002.g1978 | NC\_031678.1 | FVEG\_04402 | XP\_018748838.1 | Carboxypeptidase (EC 3.4.16.-) |
| contig00002.g1957 | NC\_031678.1 | FVEG\_04421 | XP\_018748860.1 | Beta-glucanase |
| contig00002.g1930 | NC\_031678.1 | FVEG\_04450 | XP\_018748890.1 | Uncharacterized protein |
| contig00002.g1923 | NC\_031678.1 | FVEG\_04457 | XP\_018748900.1 | Chitin binding protein |
| contig00002.g1920 | NC\_031678.1 | FVEG\_04460 | XP\_018748904.1 | Murein transglycosylase |
| contig00002.g1879 | NC\_031678.1 | FVEG\_04501 | XP\_018748955.1 | 50S ribosomal protein L1 |
| contig00002.g1851 | NC\_031678.1 | FVEG\_04529 | XP\_018748992.1 | Fungal lipase-type domain-containing protein |
| contig00043.g14114 | NC\_031678.1 | FVEG\_04535 | XP\_018748998.1 | CAAX prenyl protease (EC 3.4.24.84) |
| contig00002.g1826 | NC\_031678.1 | FVEG\_04555 | XP\_018749028.1 | Beta-lactamase-related domain-containing protein |
| contig00002.g1822 | NC\_031678.1 | FVEG\_04558 | XP\_018749032.1 | FMN hydroxy acid dehydrogenase domain-containing protein |
| contig00002.g1820 | NC\_031678.1 | FVEG\_04559 | XP\_018749034.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00002.g1812 | NC\_031678.1 | FVEG\_04567 | XP\_018749053.1 | Uncharacterized protein |
| contig00002.g1775 | NC\_031678.1 | FVEG\_04601 | XP\_018749106.1 | Chitinase |
| contig00002.g1766 | NC\_031678.1 | FVEG\_04610 | XP\_018749116.1 | Glucose-methanol-choline oxidoreductase |
| contig00002.g1734 | NC\_031678.1 | FVEG\_04647 | XP\_018749173.1 | Necrosis inducing protein |
| contig00002.g1701 | NC\_031678.1 | FVEG\_04685 | XP\_018749238.1 | Prenylcysteine oxidase/farnesylcysteine lyase |
| contig00002.g1665 | NC\_031678.1 | FVEG\_04722 | XP\_018749305.1 | Spore coat protein SP96 |
| contig00002.g1641 | NC\_031678.1 | FVEG\_04743 | XP\_018749339.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00002.g1633 | NC\_031678.1 | FVEG\_04751 | XP\_018749347.1 | rhamnogalacturonan endolyase (EC 4.2.2.23) |
| contig00002.g1618 | NC\_031678.1 | FVEG\_04765 | XP\_018749376.1 | DUF7907 domain-containing protein |
| contig00002.g1551 | NC\_031678.1 | FVEG\_04834 | XP\_018749480.1 | Heterokaryon incompatibility Het-C |
| contig00002.g1545 | NC\_031678.1 | FVEG\_04840 | XP\_018749495.1 | CYTH domain-containing protein |
| contig00002.g1542 | NC\_031678.1 | FVEG\_04842 | XP\_018749497.1 | Pirin (Iron-binding nuclear protein) |
| contig00002.g1501 | NC\_031678.1 | FVEG\_04883 | XP\_018749567.1 | Mannosyl-oligosaccharide glucosidase (EC 3.2.1.106) (Glucosidase I) |
| contig00002.g1455 | NC\_031678.1 | FVEG\_04931 | XP\_018749671.1 | DJ-1/PfpI domain-containing protein |
| contig00002.g1438 | NC\_031678.1 | FVEG\_04947 | XP\_018749701.1 | Glucoamylase (EC 3.2.1.3) |
| contig00002.g1416 | NC\_031678.1 | FVEG\_04968 | XP\_018749735.1 | Carbohydrate-binding module family 19 domain-containing protein |
| contig00002.g1352 | NC\_031678.1 | FVEG\_05034 | XP\_018749840.1 | Uncharacterized protein |
| contig00039.g13978 | NC\_031678.1 | FVEG\_05076 | XP\_018749917.1 | CHRD domain-containing protein |
| contig00039.g13985 | NC\_031678.1 | FVEG\_05084 | XP\_018749925.1 | Tetratricopeptide repeat and J domain-containing co-chaperone DNJ1 |
| contig00018.g9920 | NC\_031678.1 | FVEG\_11810 | XP\_018759555.1 | Uncharacterized protein |
| contig00018.g9906 | NC\_031678.1 | FVEG\_11824 | XP\_018759572.1 | 6-methylsalicylate decarboxylase (EC 4.1.1.52) |
| contig00018.g9903 | NC\_031678.1 | FVEG\_11827 | XP\_018759576.1 | Apple domain-containing protein |
| contig00018.g9878 | NC\_031678.1 | FVEG\_11849 | XP\_018759604.1 | Beta-xylanase (EC 3.2.1.8) |
| contig00018.g9874 | NC\_031678.1 | FVEG\_11851 | XP\_018759608.1 | Aggrecan core protein |
| contig00018.g9856 | NC\_031678.1 | FVEG\_11867 | XP\_018759628.1 | cellulase (EC 3.2.1.4) |
| contig00018.g9854 | NC\_031678.1 | FVEG\_11869 | XP\_018759631.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00018.g9849 | NC\_031678.1 | FVEG\_11874 | XP\_018759636.1 | Acid phosphatase |
| contig00018.g9842 | NC\_031678.1 | FVEG\_11882 | XP\_018759643.1 | Peptidase A1 domain-containing protein |
| contig00018.g9834 | NC\_031678.1 | FVEG\_11889 | XP\_018759653.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00018.g9832 | NC\_031678.1 | FVEG\_11891 | XP\_018759655.1 | AB hydrolase-1 domain-containing protein |
| contig00018.g9823 | NC\_031678.1 | FVEG\_11901 | XP\_018759665.1 | Glucose-methanol-choline oxidoreductase |
| contig00018.g9822 | NC\_031678.1 | FVEG\_11902 | XP\_018759666.1 | DUF5703 domain-containing protein |
| contig00018.g9819 | NC\_031678.1 | FVEG\_11904 | XP\_018759671.1 | Uncharacterized protein |
| contig00018.g9812 | NC\_031678.1 | FVEG\_11911 | XP\_018759683.1 | FTP domain-containing protein |
| contig00018.g9806 | NC\_031678.1 | FVEG\_11917 | XP\_018759689.1 | 3-carboxymuconate cyclase |
| contig00018.g9790 | NC\_031678.1 | FVEG\_11933 | XP\_018759708.1 | Beta-fructofuranosidase |
| contig00018.g9788 | NC\_031678.1 | FVEG\_11934 | XP\_018759710.1 | FAD/NAD(P)-binding domain-containing protein |
| contig00018.g9777 | NC\_031678.1 | FVEG\_11944 | XP\_018759723.1 | Endo-1,3(4)-beta-glucanase |
| contig00018.g9772 | NC\_031678.1 | FVEG\_11948 | XP\_018759728.1 | L-ascorbate oxidase |
| contig00018.g9767 | NC\_031678.1 | FVEG\_11952 | XP\_018759735.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00018.g9760 | NC\_031678.1 | FVEG\_11959 | XP\_018759745.1 | Uncharacterized protein |
| contig00018.g9731 | NC\_031678.1 | FVEG\_11988 | XP\_018759780.1 | CBM-cenC domain-containing protein |
| contig00018.g9717 | NC\_031678.1 | FVEG\_12001 | XP\_018759795.1 | Uncharacterized protein |
| contig00030.g12739 | NC\_031678.1 | FVEG\_12002 | XP\_018759796.1 | chitinase (EC 3.2.1.14) |
| contig00018.g9711 | NC\_031678.1 | FVEG\_12008 | XP\_018759803.1 | SCP domain-containing protein |
| contig00018.g9705 | NC\_031678.1 | FVEG\_12015 | XP\_018759812.1 | AB hydrolase-1 domain-containing protein |
| contig00018.g9694 | NC\_031678.1 | FVEG\_12024 | XP\_018759822.1 | agmatinase (EC 3.5.3.11) |
| contig00018.g9639 | NC\_031678.1 | FVEG\_12078 | XP\_018759895.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00018.g9624 | NC\_031678.1 | FVEG\_12093 | XP\_018759914.1 | VOC domain-containing protein |
| contig00018.g9611 | NC\_031678.1 | FVEG\_12107 | XP\_018759931.1 | Carbohydrate-binding domain-containing protein |
| contig00018.g9607 | NC\_031678.1 | FVEG\_12110 | XP\_018759935.1 | Serum paraoxonase/lactonase 3 |
| contig00018.g9593 | NC\_031678.1 | FVEG\_12124 | XP\_018759957.1 | Endonuclease/exonuclease/phosphatase domain-containing protein |
| contig00018.g9590 | NC\_031678.1 | FVEG\_12127 | XP\_018759959.1 | DUF7371 domain-containing protein |
| contig00018.g9582 | NC\_031678.1 | FVEG\_12137 | XP\_018759969.1 | UDP-glucose:glycoprotein glucosyltransferase |
| contig00018.g9577 | NC\_031678.1 | FVEG\_12142 | XP\_018759980.1 | Murein transglycosylase |
| contig00019.g10282 | NC\_031678.1 | FVEG\_12176 | XP\_018760027.1 | DUF7908 domain-containing protein |
| contig00019.g10278 | NC\_031678.1 | FVEG\_12180 | XP\_018760031.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00019.g10274 | NC\_031678.1 | FVEG\_12185 | XP\_018760036.1 | Alkaline phosphatase |
| contig00019.g10266 | NC\_031678.1 | FVEG\_12189 | XP\_018760042.1 | alpha-L-fucosidase (EC 3.2.1.51) |
| contig00019.g10261 | NC\_031678.1 | FVEG\_12194 | XP\_018760047.1 | Carboxypeptidase A4 |
| contig00019.g10251 | NC\_031678.1 | FVEG\_12202 | XP\_018760057.1 | Amine oxidase domain-containing protein |
| contig00019.g10250 | NC\_031678.1 | FVEG\_12203 | XP\_018760058.1 | MOSC domain-containing protein |
| contig00019.g10245 | NC\_031678.1 | FVEG\_12209 | XP\_018760064.1 | pectin lyase (EC 4.2.2.10) |
| contig00019.g10242 | NC\_031678.1 | FVEG\_12212 | XP\_018760068.1 | Heme haloperoxidase family profile domain-containing protein |
| contig00019.g10241 | NC\_031678.1 | FVEG\_12213 | XP\_018760069.1 | Glycosyltransferase family 28 N-terminal domain-containing protein |
| contig00019.g10217 | NC\_031678.1 | FVEG\_12235 | XP\_018760094.1 | Heme haloperoxidase family profile domain-containing protein |
| contig00019.g10216 | NC\_031678.1 | FVEG\_12236 | XP\_018760095.1 | Lipase B |
| contig00019.g10213 | NC\_031678.1 | FVEG\_12238 | XP\_018760098.1 | Glucose-methanol-choline oxidoreductase |
| contig00019.g10207 | NC\_031678.1 | FVEG\_12244 | XP\_018760104.1 | Peptidase S8/S53 domain-containing protein |
| contig00019.g10206 | NC\_031678.1 | FVEG\_12245 | XP\_018760106.1 | Ecp2 effector protein-like domain-containing protein |
| contig00019.g10171 | NC\_031678.1 | FVEG\_12278 | XP\_018760145.1 | GPI anchored protein |
| contig00019.g10170 | NC\_031678.1 | FVEG\_12279 | XP\_018760146.1 | pectate lyase (EC 4.2.2.2) |
| contig00019.g10168 | NC\_031678.1 | FVEG\_12280 | XP\_018760148.1 | Trypsin |
| contig00019.g10167 | NC\_031678.1 | FVEG\_12281 | XP\_018760149.1 | Apple domain-containing protein |
| contig00019.g10165 | NC\_031678.1 | FVEG\_12284 | XP\_018760152.1 | Antifungal protein |
| contig00019.g10164 | NC\_031678.1 | FVEG\_12285 | XP\_018760153.1 | FAD-binding PCMH-type domain-containing protein |
| contig00019.g10160 | NC\_031678.1 | FVEG\_12289 | XP\_018760161.1 | Alpha-galactosidase (EC 3.2.1.22) (Melibiase) |
| contig00019.g10154 | NC\_031678.1 | FVEG\_12295 | XP\_018760167.1 | ribonuclease T1 (EC 4.6.1.24) |
| contig00019.g10150 | NC\_031678.1 | FVEG\_12299 | XP\_018760172.1 | Glycoside hydrolase family 5 domain-containing protein |
| contig00019.g10133 | NC\_031678.1 | FVEG\_12315 | XP\_018760194.1 | Uncharacterized protein |
| contig00019.g10118 | NC\_031678.1 | FVEG\_12324 | XP\_018760212.1 | LysM domain-containing protein |
| contig00019.g10112 | NC\_031678.1 | FVEG\_12330 | XP\_018760218.1 | Protein SnodProt1 |
| contig00019.g10111 | NC\_031678.1 | FVEG\_12331 | XP\_018760219.1 | Uncharacterized protein |
| contig00019.g10098 | NC\_031678.1 | FVEG\_12345 | XP\_018760233.1 | Xyloglucanase |
| contig00019.g10097 | NC\_031678.1 | FVEG\_12346 | XP\_018760234.1 | cutinase (EC 3.1.1.74) |
| contig00019.g10089 | NC\_031678.1 | FVEG\_12353 | XP\_018760242.1 | Peptidase M14 domain-containing protein |
| contig00019.g10088 | NC\_031678.1 | FVEG\_12354 | XP\_018760243.1 | Ecp2 effector protein domain-containing protein |
| contig00019.g10072 | NC\_031678.1 | FVEG\_12368 | XP\_018760259.1 | rhamnogalacturonan endolyase (EC 4.2.2.23) |
| contig00019.g10066 | NC\_031678.1 | FVEG\_12372 | XP\_018760265.1 | Glucose-methanol-choline oxidoreductase |
| contig00019.g10058 | NC\_031678.1 | FVEG\_12381 | XP\_018760276.1 | Peptidase A1 domain-containing protein |
| contig00019.g10051 | NC\_031678.1 | FVEG\_12387 | XP\_018760282.1 | Apple domain-containing protein |
| contig00019.g10041 | NC\_031678.1 | FVEG\_12396 | XP\_018760293.1 | CBM-cenC domain-containing protein |
| contig00019.g10040 | NC\_031678.1 | FVEG\_12397 | XP\_018760294.1 | Ig-like domain-containing protein |
| contig00019.g10038 | NC\_031678.1 | FVEG\_12399 | XP\_018760296.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00019.g10037 | NC\_031678.1 | FVEG\_12400 | XP\_018760297.1 | Uncharacterized protein |
| contig00019.g10034 | NC\_031678.1 | FVEG\_12404 | XP\_018760301.1 | Tyrosinase copper-binding domain-containing protein |
| contig00019.g10015 | NC\_031678.1 | FVEG\_12422 | XP\_018760325.1 | Uncharacterized protein |
| contig00019.g10014 | NC\_031678.1 | FVEG\_12423 | XP\_018760326.1 | mannan endo-1,4-beta-mannosidase (EC 3.2.1.78) |
| contig00019.g10005 | NC\_031678.1 | FVEG\_12434 | XP\_018760344.1 | Pectate lyase (EC 4.2.2.2) |
| contig00019.g10004 | NC\_031678.1 | FVEG\_12435 | XP\_018760345.1 | Uncharacterized protein |
| contig00019.g9999 | NC\_031678.1 | FVEG\_12442 | XP\_018760355.1 | WSC domain-containing protein |
| contig00019.g9995 | NC\_031678.1 | FVEG\_12445 | XP\_018760359.1 | carbonic anhydrase (EC 4.2.1.1) |
| contig00019.g9992 | NC\_031678.1 | FVEG\_12448 | XP\_018760362.1 | Uncharacterized protein |
| contig00019.g9982 | NC\_031678.1 | FVEG\_12459 | XP\_018760377.1 | Uncharacterized protein |
| contig00019.g9958 | NC\_031678.1 | FVEG\_12482 | XP\_018760408.1 | Pyrroloquinoline quinone-dependent pyranose dehydrogenase |
| contig00019.g9957 | NC\_031678.1 | FVEG\_12483 | XP\_018760409.1 | Apple domain-containing protein |
| contig00019.g9956 | NC\_031678.1 | FVEG\_12484 | XP\_018760410.1 | Apple domain-containing protein |
| contig00019.g9955 | NC\_031678.1 | FVEG\_12485 | XP\_018760411.1 | Feruloyl esterase C (EC 3.1.1.73) (Ferulic acid esterase C) |
| contig00019.g9954 | NC\_031678.1 | FVEG\_12486 | XP\_018760412.1 | Murein transglycosylase |
| contig00019.g9935 | NC\_031678.1 | FVEG\_12502 | XP\_018760431.1 | Beta-xylanase (EC 3.2.1.8) |
| contig00002.g2018 | NC\_031678.1 | FVEG\_15461 | XP\_018748796.1 | TIL domain-containing protein |
| contig00002.g1931 | NC\_031678.1 | FVEG\_15481 | XP\_018748891.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00002.g1379 | NC\_031678.1 | FVEG\_15586 | XP\_018749796.1 | Peptidase S8/S53 domain-containing protein |
| contig00018.g9871 | NC\_031678.1 | FVEG\_17120 | XP\_018759611.1 | Uncharacterized protein |
| contig00019.g10268 | NC\_031678.1 | FVEG\_17178 | XP\_018760041.1 | Glycosyl hydrolase family 32 N-terminal domain-containing protein |
| contig00019.g10169 | NC\_031678.1 | FVEG\_17206 | XP\_018760147.1 | Uncharacterized protein |
| contig00019.g10121 | NC\_031678.1 | FVEG\_17224 | XP\_018760208.1 | Uncharacterized protein |
| contig00019.g9981 | NC\_031678.1 | FVEG\_17275 | XP\_018760378.1 | Uncharacterized protein |
| contig00010.g6542 | NC\_031679.1 | FVEG\_02601 | XP\_018746211.1 | Uncharacterized protein |
| contig00010.g6566 | NC\_031679.1 | FVEG\_02627 | XP\_018746261.1 | DNA replication factor Cdt1 C-terminal domain-containing protein |
| contig00010.g6627 | NC\_031679.1 | FVEG\_02691 | XP\_018746400.1 | Amidohydrolase ytcJ-like |
| contig00010.g6631 | NC\_031679.1 | FVEG\_02695 | XP\_018746409.1 | MICOS complex subunit MIC12 (Altered inheritance of mitochondria p 5) |
| contig00001.g384 | NC\_031679.1 | FVEG\_02824 | XP\_018746630.1 | Uncharacterized protein |
| contig00004.g2910 | NC\_031679.1 | FVEG\_02982 | XP\_018746867.1 | RlpA-like protein double-psi beta-barrel domain-containing protein |
| contig00004.g2931 | NC\_031679.1 | FVEG\_03005 | XP\_018746906.1 | Protein SnodProt1 |
| contig00004.g2971 | NC\_031679.1 | FVEG\_03046 | XP\_018746959.1 | Malate dehydrogenase |
| contig00004.g2999 | NC\_031679.1 | FVEG\_03072 | XP\_018746992.1 | tripeptidyl-peptidase II (EC 3.4.14.10) |
| contig00004.g3017 | NC\_031679.1 | FVEG\_03090 | XP\_018747023.1 | Uncharacterized protein |
| contig00004.g3048 | NC\_031679.1 | FVEG\_03121 | XP\_018747081.1 | DnaJ-related protein SCJ1 |
| contig00004.g3052 | NC\_031679.1 | FVEG\_03124 | XP\_018747085.1 | Laccase abr2 |
| contig00004.g3068 | NC\_031679.1 | FVEG\_03140 | XP\_018747107.1 | Beta-xylanase (EC 3.2.1.8) |
| contig00004.g3071 | NC\_031679.1 | FVEG\_03143 | XP\_018747112.1 | Uncharacterized protein |
| contig00004.g3072 | NC\_031679.1 | FVEG\_03144 | XP\_018747113.1 | inorganic diphosphatase (EC 3.6.1.1) |
| contig00004.g3143 | NC\_031679.1 | FVEG\_03210 | XP\_018747204.1 | Ig-like domain-containing protein |
| contig00004.g3175 | NC\_031679.1 | FVEG\_03245 | XP\_018747256.1 | Subtilisin |
| contig00004.g3189 | NC\_031679.1 | FVEG\_03260 | XP\_018747276.1 | CBM1 domain-containing protein |
| contig00004.g3204 | NC\_031679.1 | FVEG\_03274 | XP\_018747294.1 | Uncharacterized protein |
| contig00004.g3205 | NC\_031679.1 | FVEG\_03275 | XP\_018747295.1 | Serine/threonine protein kinase |
| contig00004.g3207 | NC\_031679.1 | FVEG\_03277 | XP\_018747297.1 | asparaginase (EC 3.5.1.1) |
| contig00004.g3214 | NC\_031679.1 | FVEG\_03284 | XP\_018747309.1 | Uncharacterized protein |
| contig00004.g3219 | NC\_031679.1 | FVEG\_03290 | XP\_018747315.1 | Uncharacterized protein |
| contig00004.g3223 | NC\_031679.1 | FVEG\_03292 | XP\_018747319.1 | Uncharacterized protein |
| contig00004.g3239 | NC\_031679.1 | FVEG\_03305 | XP\_018747335.1 | Ecp2 effector protein domain-containing protein |
| contig00004.g3242 | NC\_031679.1 | FVEG\_03307 | XP\_018747338.1 | Secreted in xylem 2 |
| contig00004.g3265 | NC\_031679.1 | FVEG\_03324 | XP\_018747359.1 | Alpha-glucuronidase (EC 3.2.1.139) |
| contig00004.g3276 | NC\_031679.1 | FVEG\_03334 | XP\_018747369.1 | Uncharacterized protein |
| contig00004.g3290 | NC\_031679.1 | FVEG\_03346 | XP\_018747383.1 | Uncharacterized protein |
| contig00004.g3297 | NC\_031679.1 | FVEG\_03351 | XP\_018747391.1 | Cutinase (EC 3.1.1.74) |
| contig00004.g3308 | NC\_031679.1 | FVEG\_03362 | XP\_018747403.1 | Murein transglycosylase |
| contig00004.g3188 | NC\_031679.1 | FVEG\_03382 | XP\_018747428.1 | Zn(2)-C6 fungal-type domain-containing protein |
| contig00004.g3339 | NC\_031679.1 | FVEG\_03395 | XP\_018747444.1 | Cutinase (EC 3.1.1.74) |
| contig00004.g3342 | NC\_031679.1 | FVEG\_03398 | XP\_018747447.1 | Lipase A |
| contig00004.g3360 | NC\_031679.1 | FVEG\_03416 | XP\_018747466.1 | Alginate lyase domain-containing protein |
| contig00008.g5736 | NC\_031679.1 | FVEG\_08899 | XP\_018755529.1 | Meiotic sister chromatid recombination protein 1 |
| contig00008.g5656 | NC\_031679.1 | FVEG\_08978 | XP\_018755643.1 | 6-phosphogluconolactonase |
| contig00008.g5625 | NC\_031679.1 | FVEG\_09009 | XP\_018755693.1 | AB hydrolase-1 domain-containing protein |
| contig00008.g5624 | NC\_031679.1 | FVEG\_09010 | XP\_018755694.1 | Cupin type-1 domain-containing protein |
| contig00008.g5598 | NC\_031679.1 | FVEG\_09034 | XP\_018755724.1 | Beta-xylosidase C-terminal Concanavalin A-like domain |
| contig00008.g5597 | NC\_031679.1 | FVEG\_09035 | XP\_018755725.1 | ribonuclease T2 (EC 4.6.1.19) |
| contig00008.g5596 | NC\_031679.1 | FVEG\_09036 | XP\_018755726.1 | Small secreted protein |
| contig00008.g5556 | NC\_031679.1 | FVEG\_09073 | XP\_018755774.1 | tripeptidyl-peptidase II (EC 3.4.14.10) |
| contig00008.g5519 | NC\_031679.1 | FVEG\_09116 | XP\_018755828.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00008.g5496 | NC\_031679.1 | FVEG\_09142 | XP\_018755868.1 | Secreted protein NIS1 |
| contig00008.g5488 | NC\_031679.1 | FVEG\_09149 | XP\_018755879.1 | Peroxidase (EC 1.11.1.-) |
| contig00008.g5408 | NC\_031679.1 | FVEG\_09233 | XP\_018756050.1 | AB hydrolase-1 domain-containing protein |
| contig00008.g5359 | NC\_031679.1 | FVEG\_09284 | XP\_018756125.1 | Endo-1,3(4)-beta-glucanase |
| contig00008.g5358 | NC\_031679.1 | FVEG\_09285 | XP\_018756126.1 | Cellulase (EC 3.2.1.4) |
| contig00008.g5356 | NC\_031679.1 | FVEG\_09287 | XP\_018756129.1 | Cytochrome c oxidase assembly protein |
| contig00008.g5322 | NC\_031679.1 | FVEG\_09321 | XP\_018756173.1 | Apple domain-containing protein |
| contig00004.g3383 | NC\_031679.1 | FVEG\_09332 | XP\_018756186.1 | Spore coat protein SP96 |
| contig00004.g3397 | NC\_031679.1 | FVEG\_09348 | XP\_018756201.1 | Apple domain-containing protein |
| contig00004.g3399 | NC\_031679.1 | FVEG\_09350 | XP\_018756203.1 | Apple domain-containing protein |
| contig00004.g3410 | NC\_031679.1 | FVEG\_09361 | XP\_018756214.1 | feruloyl esterase (EC 3.1.1.73) |
| contig00004.g3419 | NC\_031679.1 | FVEG\_09370 | XP\_018756226.1 | GH64 domain-containing protein |
| contig00004.g3427 | NC\_031679.1 | FVEG\_09375 | XP\_018756234.1 | Peptidase S1 domain-containing protein |
| contig00003.g2666 | NC\_031679.1 | FVEG\_09387 | XP\_018756247.1 | Pectate lyase (EC 4.2.2.2) |
| contig00004.g3455 | NC\_031679.1 | FVEG\_09405 | XP\_018756265.1 | Acetylesterase |
| contig00004.g3456 | NC\_031679.1 | FVEG\_09406 | XP\_018756266.1 | Uncharacterized protein |
| contig00004.g3460 | NC\_031679.1 | FVEG\_09409 | XP\_018756269.1 | Uncharacterized protein |
| contig00004.g3469 | NC\_031679.1 | FVEG\_09416 | XP\_018756280.1 | Uncharacterized protein |
| contig00004.g3492 | NC\_031679.1 | FVEG\_09438 | XP\_018756308.1 | Uncharacterized protein |
| contig00004.g3495 | NC\_031679.1 | FVEG\_09440 | XP\_018756311.1 | Trichothecene biosynthesis protein |
| contig00004.g3498 | NC\_031679.1 | FVEG\_09443 | XP\_018756314.1 | Glucan endo-1,3-beta-glucosidase |
| contig00004.g3499 | NC\_031679.1 | FVEG\_09444 | XP\_018756315.1 | Ecp2 effector protein domain-containing protein |
| contig00004.g2864 | NC\_031679.1 | FVEG\_15153 | XP\_018746789.1 | Ricin B lectin domain-containing protein |
| contig00004.g3213 | NC\_031679.1 | FVEG\_15231 | XP\_018747308.1 | Protein disulfide-isomerase (EC 5.3.4.1) |
| contig00004.g3227 | NC\_031679.1 | FVEG\_15235 | XP\_018747323.1 | Uncharacterized protein |
| contig00008.g5577 | NC\_031679.1 | FVEG\_16512 | XP\_018755749.1 | DUF7908 domain-containing protein |
| contig00008.g5375 | NC\_031679.1 | FVEG\_16549 | XP\_018756097.1 | Modin |
| contig00004.g3463 | NC\_031679.1 | FVEG\_16576 | XP\_018756272.1 | Chitin-binding type-2 domain-containing protein |
| contig00004.g3468 | NC\_031679.1 | FVEG\_16579 | XP\_018756279.1 | Uncharacterized protein |
| contig00004.g3482 | NC\_031679.1 | FVEG\_16584 | XP\_018756296.1 | Uncharacterized protein |
| contig00023.g11147 | NC\_031680.1 | FVEG\_01522 | XP\_018744453.1 | Enoyl reductase (ER) domain-containing protein |
| contig00023.g11169 | NC\_031680.1 | FVEG\_01544 | XP\_018744476.1 | Uncharacterized protein |
| contig00023.g11172 | NC\_031680.1 | FVEG\_01546 | XP\_018744479.1 | ABC transporter |
| contig00023.g11173 | NC\_031680.1 | FVEG\_01547 | XP\_018744480.1 | Cell surface protein |
| contig00023.g11178 | NC\_031680.1 | FVEG\_01553 | XP\_018744487.1 | Cupin 2 conserved barrel domain-containing protein |
| contig00023.g11179 | NC\_031680.1 | FVEG\_01554 | XP\_018744488.1 | Uncharacterized protein |
| contig00023.g11182 | NC\_031680.1 | FVEG\_01557 | XP\_018744491.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00023.g11194 | NC\_031680.1 | FVEG\_01567 | XP\_018744501.1 | Regulatory P domain-containing protein |
| contig00023.g11203 | NC\_031680.1 | FVEG\_01575 | XP\_018744514.1 | Hydrophobin |
| contig00023.g11212 | NC\_031680.1 | FVEG\_01583 | XP\_018744523.1 | chitinase (EC 3.2.1.14) |
| contig00023.g11213 | NC\_031680.1 | FVEG\_01584 | XP\_018744524.1 | Non-secreted LysM effector LCP1 |
| contig00023.g11225 | NC\_031680.1 | FVEG\_01594 | XP\_018744537.1 | Apple domain-containing protein |
| contig00023.g11228 | NC\_031680.1 | FVEG\_01596 | XP\_018744540.1 | Thiaminase-2/PQQC domain-containing protein |
| contig00023.g11231 | NC\_031680.1 | FVEG\_01598 | XP\_018744545.1 | Uncharacterized protein |
| contig00023.g11247 | NC\_031680.1 | FVEG\_01614 | XP\_018744582.1 | Tyrosinase |
| contig00023.g11248 | NC\_031680.1 | FVEG\_01615 | XP\_018744583.1 | WSC domain-containing protein |
| contig00023.g11257 | NC\_031680.1 | FVEG\_01622 | XP\_018744595.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00023.g11264 | NC\_031680.1 | FVEG\_01630 | XP\_018744610.1 | Cell wall protein PhiA |
| contig00023.g11280 | NC\_031680.1 | FVEG\_01647 | XP\_018744629.1 | Glucosidase 2 subunit beta |
| contig00023.g11292 | NC\_031680.1 | FVEG\_01659 | XP\_018744642.1 | Uncharacterized protein |
| contig00023.g11293 | NC\_031680.1 | FVEG\_01660 | XP\_018744643.1 | PA14 domain-containing protein |
| contig00023.g11302 | NC\_031680.1 | FVEG\_01670 | XP\_018744653.1 | FAD-binding domain-containing protein |
| contig00023.g11358 | NC\_031680.1 | FVEG\_01726 | XP\_018744727.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00023.g11361 | NC\_031680.1 | FVEG\_01729 | XP\_018744730.1 | EthD domain-containing protein |
| contig00023.g11363 | NC\_031680.1 | FVEG\_01731 | XP\_018744732.1 | Meiotically up-regulated gene 157 protein |
| contig00023.g11374 | NC\_031680.1 | FVEG\_01746 | XP\_018744746.1 | Apple domain-containing protein |
| contig00023.g11385 | NC\_031680.1 | FVEG\_01758 | XP\_018744757.1 | Small secreted protein |
| contig00023.g11396 | NC\_031680.1 | FVEG\_01770 | XP\_018744771.1 | Glucanase (EC 3.2.1.-) |
| contig00023.g11406 | NC\_031680.1 | FVEG\_01778 | XP\_018744783.1 | Endo-chitosanase (EC 3.2.1.132) |
| contig00021.g10820 | NC\_031680.1 | FVEG\_01779 | XP\_018744784.1 | glucan endo-1,6-beta-glucosidase (EC 3.2.1.75) |
| contig00021.g10801 | NC\_031680.1 | FVEG\_01795 | XP\_018744804.1 | Beta-lactamase-related domain-containing protein |
| contig00021.g10794 | NC\_031680.1 | FVEG\_01804 | XP\_018744819.1 | Neutral protease 2 (EC 3.4.24.39) (Deuterolysin) |
| contig00030.g12755 | NC\_031680.1 | FVEG\_01809 | XP\_018744825.1 | Leucine-rich repeat-containing protein 40 |
| contig00021.g10778 | NC\_031680.1 | FVEG\_01819 | XP\_018744836.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00021.g10727 | NC\_031680.1 | FVEG\_01870 | XP\_018744907.1 | glucan endo-1,3-beta-D-glucosidase (EC 3.2.1.39) |
| contig00021.g10718 | NC\_031680.1 | FVEG\_01879 | XP\_018744920.1 | Uncharacterized protein |
| contig00006.g4712 | NC\_031680.1 | FVEG\_02095 | XP\_018745298.1 | FAD dependent oxidoreductase domain-containing protein |
| contig00006.g4676 | NC\_031680.1 | FVEG\_02133 | XP\_018745425.1 | Alkaline proteinase |
| contig00006.g4643 | NC\_031680.1 | FVEG\_02166 | XP\_018745476.1 | Ribosomal protein s17 |
| contig00006.g4642 | NC\_031680.1 | FVEG\_02167 | XP\_018745479.1 | Nuclease S1 |
| contig00006.g4514 | NC\_031680.1 | FVEG\_02309 | XP\_018745700.1 | DUF7143 domain-containing protein |
| contig00025.g11730 | NC\_031680.1 | FVEG\_02317 | XP\_018745719.1 | Cytochrome P450 oxidoreductase |
| contig00006.g4416 | NC\_031680.1 | FVEG\_02403 | XP\_018745857.1 | FAD-binding PCMH-type domain-containing protein |
| contig00006.g4415 | NC\_031680.1 | FVEG\_02404 | XP\_018745858.1 | Dienelactone hydrolase domain-containing protein |
| contig00006.g4413 | NC\_031680.1 | FVEG\_02406 | XP\_018745861.1 | AB hydrolase-1 domain-containing protein |
| contig00006.g4411 | NC\_031680.1 | FVEG\_02407 | XP\_018745863.1 | Uncharacterized protein |
| contig00006.g4313 | NC\_031680.1 | FVEG\_02506 | XP\_018746004.1 | Glycoside hydrolase 131 |
| contig00026.g12079 | NC\_031680.1 | FVEG\_13160 | XP\_018761302.1 | FAS1 domain-containing protein |
| contig00026.g12064 | NC\_031680.1 | FVEG\_13176 | XP\_018761321.1 | Uncharacterized protein |
| contig00026.g12059 | NC\_031680.1 | FVEG\_13181 | XP\_018761327.1 | Heterokaryon incompatibility domain-containing protein |
| contig00026.g12057 | NC\_031680.1 | FVEG\_13183 | XP\_018761329.1 | Cell wall glycosyl hydrolase YteR |
| contig00026.g12035 | NC\_031680.1 | FVEG\_13207 | XP\_018761356.1 | Endo-1,4-beta-xylanase (EC 3.2.1.8) |
| contig00026.g11994 | NC\_031680.1 | FVEG\_13248 | XP\_018761403.1 | AttH domain-containing protein |
| contig00026.g11988 | NC\_031680.1 | FVEG\_13254 | XP\_018761409.1 | Apple domain-containing protein |
| contig00026.g11986 | NC\_031680.1 | FVEG\_13256 | XP\_018761411.1 | Xaa-Pro dipeptidyl-peptidase C-terminal domain-containing protein |
| contig00026.g11981 | NC\_031680.1 | FVEG\_13262 | XP\_018761417.1 | Sialidase domain-containing protein |
| contig00026.g11951 | NC\_031680.1 | FVEG\_13289 | XP\_018761450.1 | Amine oxidase domain-containing protein |
| contig00026.g11941 | NC\_031680.1 | FVEG\_13300 | XP\_018761461.1 | BNR/Asp-box repeat domain protein |
| contig00026.g11937 | NC\_031680.1 | FVEG\_13304 | XP\_018761465.1 | Murein transglycosylase |
| contig00026.g11936 | NC\_031680.1 | FVEG\_13305 | XP\_018761466.1 | Beta-xylosidase |
| contig00026.g11935 | NC\_031680.1 | FVEG\_13306 | XP\_018761467.1 | Peptidase A1 domain-containing protein |
| contig00026.g11934 | NC\_031680.1 | FVEG\_13307 | XP\_018761468.1 | Glucose-methanol-choline oxidoreductase |
| contig00026.g11930 | NC\_031680.1 | FVEG\_13310 | XP\_018761472.1 | CBM1 domain-containing protein |
| contig00023.g11183 | NC\_031680.1 | FVEG\_14861 | XP\_018744492.1 | NACHT domain-containing protein |
| contig00023.g11392 | NC\_031680.1 | FVEG\_14919 | XP\_018744766.1 | Cytochrome P450 |
| contig00006.g4633 | NC\_031680.1 | FVEG\_14997 | XP\_018745498.1 | MUC1-Extracellular alpha-1,4-glucan glucosidase |
| contig00026.g11953 | NC\_031680.1 | FVEG\_17483 | XP\_018761448.1 | 3-carboxymuconate cyclase |
| contig00026.g11914 | NC\_031680.1 | FVEG\_17495 | XP\_018761493.1 | SCP domain-containing protein |
| contig00011.g6783 | NC\_031681.1 | FVEG\_06522 | XP\_018752070.1 | Galactose oxidase |
| contig00011.g6787 | NC\_031681.1 | FVEG\_06525 | XP\_018752075.1 | Intradiol ring-cleavage dioxygenases domain-containing protein |
| contig00011.g6800 | NC\_031681.1 | FVEG\_06538 | XP\_018752089.1 | Hydrophobin 3 |
| contig00011.g6842 | NC\_031681.1 | FVEG\_06580 | XP\_018752139.1 | Amidase domain-containing protein |
| contig00011.g6846 | NC\_031681.1 | FVEG\_06584 | XP\_018752144.1 | FAD-binding PCMH-type domain-containing protein |
| contig00011.g6891 | NC\_031681.1 | FVEG\_06631 | XP\_018752222.1 | Filamentous hemagglutinin |
| contig00011.g6966 | NC\_031681.1 | FVEG\_06704 | XP\_018752314.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00011.g6977 | NC\_031681.1 | FVEG\_06715 | XP\_018752328.1 | Uncharacterized protein |
| contig00011.g6989 | NC\_031681.1 | FVEG\_06728 | XP\_018752349.1 | Beta-glucosidase cel3A (EC 3.2.1.21) |
| contig00011.g7002 | NC\_031681.1 | FVEG\_06739 | XP\_018752365.1 | Stress response protein rds1p |
| contig00011.g7012 | NC\_031681.1 | FVEG\_06750 | XP\_018752382.1 | Palmitoyl-protein thioesterase 1 (EC 3.1.2.22) |
| contig00011.g7037 | NC\_031681.1 | FVEG\_06777 | XP\_018752412.1 | LysM domain-containing protein |
| contig00011.g7039 | NC\_031681.1 | FVEG\_06779 | XP\_018752414.1 | chitinase (EC 3.2.1.14) |
| contig00011.g7065 | NC\_031681.1 | FVEG\_06805 | XP\_018752447.1 | Uncharacterized protein |
| contig00011.g7067 | NC\_031681.1 | FVEG\_06807 | XP\_018752449.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00011.g7085 | NC\_031681.1 | FVEG\_06822 | XP\_018752465.1 | NodB homology domain-containing protein |
| contig00011.g7096 | NC\_031681.1 | FVEG\_06833 | XP\_018752484.1 | Glucose-methanol-choline oxidoreductase |
| contig00011.g7120 | NC\_031681.1 | FVEG\_06859 | XP\_018752516.1 | tyrosinase (EC 1.14.18.1) |
| contig00011.g7123 | NC\_031681.1 | FVEG\_06863 | XP\_018752526.1 | Beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase |
| contig00011.g7125 | NC\_031681.1 | FVEG\_06865 | XP\_018752528.1 | Trehalase (EC 3.2.1.28) (Alpha-trehalose glucohydrolase) |
| contig00011.g7160 | NC\_031681.1 | FVEG\_06900 | XP\_018752570.1 | glucan endo-1,6-beta-glucosidase (EC 3.2.1.75) |
| contig00010.g6439 | NC\_031681.1 | FVEG\_07082 | XP\_018752900.1 | Agmatinase |
| contig00005.g3721 | NC\_031681.1 | FVEG\_07105 | XP\_018752948.1 | Translation initiation factor 4G |
| contig00010.g6480 | NC\_031681.1 | FVEG\_07124 | XP\_018752991.1 | DUF7137 domain-containing protein |
| contig00040.g14028 | NC\_031681.1 | FVEG\_11396 | XP\_018758944.1 | Inhibitor I9 domain-containing protein |
| contig00040.g14015 | NC\_031681.1 | FVEG\_11410 | XP\_018758975.1 | Uncharacterized protein |
| contig00017.g9523 | NC\_031681.1 | FVEG\_11453 | XP\_018759035.1 | Vacuolar protease A |
| contig00017.g9521 | NC\_031681.1 | FVEG\_11455 | XP\_018759037.1 | Uncharacterized protein |
| contig00017.g9486 | NC\_031681.1 | FVEG\_11492 | XP\_018759102.1 | Peptidase A1 domain-containing protein |
| contig00017.g9380 | NC\_031681.1 | FVEG\_11600 | XP\_018759297.1 | Expansin-like EG45 domain-containing protein |
| contig00017.g9370 | NC\_031681.1 | FVEG\_11609 | XP\_018759313.1 | Uncharacterized protein |
| contig00017.g9326 | NC\_031681.1 | FVEG\_11665 | XP\_018759370.1 | Uncharacterized protein |
| contig00017.g9325 | NC\_031681.1 | FVEG\_11666 | XP\_018759371.1 | Apple domain-containing protein |
| contig00017.g9324 | NC\_031681.1 | FVEG\_11667 | XP\_018759372.1 | Amine oxidase |
| contig00015.g8551 | NC\_031681.1 | FVEG\_11681 | XP\_018759391.1 | Anucleate primary sterigmata protein B |
| contig00017.g9300 | NC\_031681.1 | FVEG\_11689 | XP\_018759403.1 | PA14 domain-containing protein |
| contig00017.g9291 | NC\_031681.1 | FVEG\_11695 | XP\_018759412.1 | Probable dipeptidyl-aminopeptidase B (EC 3.4.14.5) |
| contig00017.g9286 | NC\_031681.1 | FVEG\_11700 | XP\_018759418.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00017.g9272 | NC\_031681.1 | FVEG\_11714 | XP\_018759432.1 | N1-acetylpolyamine oxidase |
| contig00017.g9269 | NC\_031681.1 | FVEG\_11717 | XP\_018759435.1 | Amidohydrolase-related domain-containing protein |
| contig00017.g9266 | NC\_031681.1 | FVEG\_11720 | XP\_018759438.1 | Uncharacterized protein |
| contig00017.g9264 | NC\_031681.1 | FVEG\_11722 | XP\_018759441.1 | Celp0028 effector like protein |
| contig00017.g9263 | NC\_031681.1 | FVEG\_11723 | XP\_018759442.1 | Uncharacterized protein |
| contig00017.g9253 | NC\_031681.1 | FVEG\_11731 | XP\_018759453.1 | FAD-binding PCMH-type domain-containing protein |
| contig00017.g9247 | NC\_031681.1 | FVEG\_11737 | XP\_018759463.1 | Uncharacterized protein |
| contig00017.g9246 | NC\_031681.1 | FVEG\_11738 | XP\_018759464.1 | Uncharacterized protein |
| contig00017.g9234 | NC\_031681.1 | FVEG\_11749 | XP\_018759477.1 | beta-glucosidase (EC 3.2.1.21) |
| contig00033.g13299 | NC\_031681.1 | FVEG\_11762 | XP\_018759490.1 | Carrier domain-containing protein |
| contig00017.g9219 | NC\_031681.1 | FVEG\_11764 | XP\_018759492.1 | Amine oxidase (EC 1.4.3.-) |
| contig00017.g9214 | NC\_031681.1 | FVEG\_11768 | XP\_018759497.1 | AB hydrolase-1 domain-containing protein |
| contig00017.g9211 | NC\_031681.1 | FVEG\_11772 | XP\_018759501.1 | Choline dehydrogenase |
| contig00017.g9210 | NC\_031681.1 | FVEG\_11773 | XP\_018759502.1 | Uncharacterized protein |
| contig00017.g9195 | NC\_031681.1 | FVEG\_11787 | XP\_018759523.1 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| contig00017.g9186 | NC\_031681.1 | FVEG\_11796 | XP\_018759532.1 | Murein transglycosylase |
| contig00011.g6802 | NC\_031681.1 | FVEG\_15883 | XP\_018752091.1 | Glycosyltransferase 2-like domain-containing protein |
| contig00011.g6809 | NC\_031681.1 | FVEG\_15886 | XP\_018752099.1 | C2H2-type domain-containing protein |
| contig00011.g6888 | NC\_031681.1 | FVEG\_15904 | XP\_018752217.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00011.g6913 | NC\_031681.1 | FVEG\_15912 | XP\_018752246.1 | Long chronological lifespan protein 2 |
| contig00011.g7140 | NC\_031681.1 | FVEG\_15951 | XP\_018752543.1 | Uncharacterized protein |
| contig00010.g6487 | NC\_031681.1 | FVEG\_16023 | XP\_018753000.1 | GH16 domain-containing protein |
| contig00017.g9262 | NC\_031681.1 | FVEG\_17080 | XP\_018759443.1 | Uncharacterized protein |
| contig00017.g9171 | NC\_031681.1 | FVEG\_17099 | XP\_018759551.1 | Carboxylesterase type B domain-containing protein |
| contig00029.g12692 | NC\_031682.1 | FVEG\_07167 | XP\_018753073.1 | FAD-binding PCMH-type domain-containing protein |
| contig00029.g12691 | NC\_031682.1 | FVEG\_07168 | XP\_018753074.1 | Extracellular serine-rich protein |
| contig00029.g12689 | NC\_031682.1 | FVEG\_07171 | XP\_018753077.1 | IDI-2 |
| contig00029.g12688 | NC\_031682.1 | FVEG\_07172 | XP\_018753078.1 | Uncharacterized protein |
| contig00029.g12687 | NC\_031682.1 | FVEG\_07173 | XP\_018753079.1 | Endoglucanase E |
| contig00029.g12686 | NC\_031682.1 | FVEG\_07174 | XP\_018753080.1 | Alginate lyase 2 domain-containing protein |
| contig00029.g12663 | NC\_031682.1 | FVEG\_07198 | XP\_018753118.1 | Peptidase M14 domain-containing protein |
| contig00029.g12658 | NC\_031682.1 | FVEG\_07203 | XP\_018753123.1 | Uncharacterized protein |
| contig00029.g12630 | NC\_031682.1 | FVEG\_07227 | XP\_018753155.1 | N4-(Beta-N-acetylglucosaminyl)-L-asparaginase |
| contig00029.g12625 | NC\_031682.1 | FVEG\_07232 | XP\_018753161.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00029.g12624 | NC\_031682.1 | FVEG\_07233 | XP\_018753162.1 | Extracellular serine carboxypeptidase |
| contig00029.g12594 | NC\_031682.1 | FVEG\_07261 | XP\_018753195.1 | Endo-1,4-beta-xylanase (EC 3.2.1.8) |
| contig00014.g8085 | NC\_031682.1 | FVEG\_07357 | XP\_018753350.1 | Inactive metallocarboxypeptidase ECM14 |
| contig00014.g8108 | NC\_031682.1 | FVEG\_07382 | XP\_018753393.1 | Malate dehydrogenase |
| contig00014.g8155 | NC\_031682.1 | FVEG\_07432 | XP\_018753478.1 | Intradiol ring-cleavage dioxygenases domain-containing protein |
| contig00014.g8164 | NC\_031682.1 | FVEG\_07441 | XP\_018753490.1 | Tyrosinase |
| contig00014.g8170 | NC\_031682.1 | FVEG\_07448 | XP\_018753497.1 | Amidohydrolase ytcJ-like |
| contig00014.g8199 | NC\_031682.1 | FVEG\_07478 | XP\_018753540.1 | CPAF-like PDZ domain-containing protein |
| contig00014.g8210 | NC\_031682.1 | FVEG\_07490 | XP\_018753552.1 | Alpha-L-arabinofuranosidase II |
| contig00014.g8216 | NC\_031682.1 | FVEG\_07496 | XP\_018753559.1 | Uncharacterized protein |
| contig00014.g8231 | NC\_031682.1 | FVEG\_07510 | XP\_018753579.1 | Superoxide dismutase (EC 1.15.1.1) |
| contig00014.g8232 | NC\_031682.1 | FVEG\_07511 | XP\_018753580.1 | Uncharacterized protein |
| contig00014.g8240 | NC\_031682.1 | FVEG\_07518 | XP\_018753588.1 | Alpha-galactosidase (EC 3.2.1.22) (Melibiase) |
| contig00014.g8293 | NC\_031682.1 | FVEG\_07571 | XP\_018753681.1 | AB hydrolase-1 domain-containing protein |
| contig00014.g8294 | NC\_031682.1 | FVEG\_07572 | XP\_018753682.1 | Kazal-like domain-containing protein |
| contig00014.g8312 | NC\_031682.1 | FVEG\_07588 | XP\_018753697.1 | LysM domain-containing protein |
| contig00014.g8328 | NC\_031682.1 | FVEG\_07607 | XP\_018753723.1 | Peptidase M14 domain-containing protein |
| contig00014.g8377 | NC\_031682.1 | FVEG\_07653 | XP\_018753777.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00014.g8381 | NC\_031682.1 | FVEG\_07656 | XP\_018753780.1 | PA14 domain-containing protein |
| contig00014.g8382 | NC\_031682.1 | FVEG\_07657 | XP\_018753781.1 | Tyrosinase copper-binding domain-containing protein |
| contig00014.g8389 | NC\_031682.1 | FVEG\_07663 | XP\_018753789.1 | Uncharacterized protein |
| contig00014.g8390 | NC\_031682.1 | FVEG\_07664 | XP\_018753790.1 | Ig-like domain-containing protein |
| contig00014.g8392 | NC\_031682.1 | FVEG\_07665 | XP\_018753792.1 | Apple domain-containing protein |
| contig00014.g8405 | NC\_031682.1 | FVEG\_07677 | XP\_018753807.1 | Peptidase S53 domain-containing protein |
| contig00014.g8406 | NC\_031682.1 | FVEG\_07678 | XP\_018753808.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00014.g8415 | NC\_031682.1 | FVEG\_07688 | XP\_018753818.1 | Aldose 1-epimerase |
| contig00014.g8417 | NC\_031682.1 | FVEG\_07690 | XP\_018753820.1 | PA14 domain-containing protein |
| contig00014.g8423 | NC\_031682.1 | FVEG\_07695 | XP\_018753826.1 | Hydrophobin |
| contig00014.g8431 | NC\_031682.1 | FVEG\_07702 | XP\_018753834.1 | Beta-xylosidase C-terminal Concanavalin A-like domain |
| contig00014.g8443 | NC\_031682.1 | FVEG\_07712 | XP\_018753846.1 | Carboxypeptidase (EC 3.4.16.-) |
| contig00014.g8447 | NC\_031682.1 | FVEG\_07716 | XP\_018753850.1 | Alpha-galactosidase (EC 3.2.1.22) |
| contig00014.g8449 | NC\_031682.1 | FVEG\_07718 | XP\_018753852.1 | FAD-binding PCMH-type domain-containing protein |
| contig00014.g8460 | NC\_031682.1 | FVEG\_07728 | XP\_018753863.1 | CBM-cenC domain-containing protein |
| contig00014.g8462 | NC\_031682.1 | FVEG\_07730 | XP\_018753865.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00014.g8481 | NC\_031682.1 | FVEG\_07747 | XP\_018753883.1 | CBM-cenC domain-containing protein |
| contig00014.g8483 | NC\_031682.1 | FVEG\_07750 | XP\_018753888.1 | Uncharacterized protein |
| contig00014.g8484 | NC\_031682.1 | FVEG\_07751 | XP\_018753889.1 | Uncharacterized protein |
| contig00014.g8485 | NC\_031682.1 | FVEG\_07752 | XP\_018753890.1 | Cyanovirin-N domain-containing protein |
| contig00014.g8487 | NC\_031682.1 | FVEG\_07753 | XP\_018753892.1 | Glycoside hydrolase family 5 domain-containing protein |
| contig00014.g8496 | NC\_031682.1 | FVEG\_07763 | XP\_018753905.1 | Fibronectin type-III domain-containing protein |
| contig00025.g11910 | NC\_031682.1 | FVEG\_13325 | XP\_018761497.1 | AB hydrolase-1 domain-containing protein |
| contig00025.g11908 | NC\_031682.1 | FVEG\_13328 | XP\_018761500.1 | CBM6 domain-containing protein |
| contig00025.g11895 | NC\_031682.1 | FVEG\_13339 | XP\_018761514.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00025.g11890 | NC\_031682.1 | FVEG\_13343 | XP\_018761519.1 | Beta-xylanase (EC 3.2.1.8) |
| contig00025.g11889 | NC\_031682.1 | FVEG\_13344 | XP\_018761520.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00025.g11887 | NC\_031682.1 | FVEG\_13346 | XP\_018761522.1 | Uncharacterized protein |
| contig00025.g11882 | NC\_031682.1 | FVEG\_13350 | XP\_018761527.1 | Secreted protein |
| contig00025.g11877 | NC\_031682.1 | FVEG\_13356 | XP\_018761535.1 | Uncharacterized protein |
| contig00025.g11874 | NC\_031682.1 | FVEG\_13359 | XP\_018761538.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00025.g11869 | NC\_031682.1 | FVEG\_13364 | XP\_018761545.1 | AB hydrolase-1 domain-containing protein |
| contig00025.g11841 | NC\_031682.1 | FVEG\_13391 | XP\_018761574.1 | beta-glucosidase (EC 3.2.1.21) |
| contig00025.g11827 | NC\_031682.1 | FVEG\_13404 | XP\_018761588.1 | Peptidase S8/S53 domain-containing protein |
| contig00025.g11826 | NC\_031682.1 | FVEG\_13405 | XP\_018761589.1 | Laccase |
| contig00025.g11804 | NC\_031682.1 | FVEG\_13426 | XP\_018761619.1 | Alpha-N-arabinofuranosidase |
| contig00025.g11797 | NC\_031682.1 | FVEG\_13433 | XP\_018761626.1 | Peptidase M43 pregnancy-associated plasma-A domain |
| contig00025.g11792 | NC\_031682.1 | FVEG\_13439 | XP\_018761631.1 | DUF7908 domain-containing protein |
| contig00025.g11781 | NC\_031682.1 | FVEG\_13450 | XP\_018761643.1 | FAD-binding PCMH-type domain-containing protein |
| contig00025.g11777 | NC\_031682.1 | FVEG\_13454 | XP\_018761648.1 | Chitinase |
| contig00025.g11775 | NC\_031682.1 | FVEG\_13456 | XP\_018761650.1 | Cyanovirin-N domain-containing protein |
| contig00025.g11774 | NC\_031682.1 | FVEG\_13457 | XP\_018761651.1 | Uncharacterized protein |
| contig00025.g11768 | NC\_031682.1 | FVEG\_13463 | XP\_018761658.1 | Carbohydrate-binding module family 19 domain-containing protein |
| contig00025.g11760 | NC\_031682.1 | FVEG\_13471 | XP\_018761669.1 | Cell wall mannoprotein |
| contig00025.g11747 | NC\_031682.1 | FVEG\_13483 | XP\_018761683.1 | Fungal calcium binding protein domain-containing protein |
| contig00025.g11736 | NC\_031682.1 | FVEG\_13495 | XP\_018761694.1 | Uncharacterized protein |
| contig00025.g11732 | NC\_031682.1 | FVEG\_13498 | XP\_018761697.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00025.g11727 | NC\_031682.1 | FVEG\_13504 | XP\_018761701.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00025.g11713 | NC\_031682.1 | FVEG\_13516 | XP\_018761716.1 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| contig00025.g11707 | NC\_031682.1 | FVEG\_13522 | XP\_018761723.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00025.g11697 | NC\_031682.1 | FVEG\_13531 | XP\_018761734.1 | D-arabinono-1,4-lactone oxidase (EC 1.1.3.37) |
| contig00025.g11694 | NC\_031682.1 | FVEG\_13534 | XP\_018761737.1 | Cutinase |
| contig00025.g11677 | NC\_031682.1 | FVEG\_13553 | XP\_018761760.1 | Arabinosidase |
| contig00025.g11676 | NC\_031682.1 | FVEG\_13554 | XP\_018761761.1 | Uncharacterized protein |
| contig00025.g11675 | NC\_031682.1 | FVEG\_13555 | XP\_018761762.1 | Purple acid phosphatase (EC 3.1.3.2) |
| contig00025.g11674 | NC\_031682.1 | FVEG\_13557 | XP\_018761763.1 | Apple domain-containing protein |
| contig00025.g11663 | NC\_031682.1 | FVEG\_13565 | XP\_018761774.1 | Uncharacterized protein |
| contig00025.g11652 | NC\_031682.1 | FVEG\_13578 | XP\_018761787.1 | Glycosyl hydrolase family 30 beta sandwich domain-containing protein |
| contig00025.g11649 | NC\_031682.1 | FVEG\_13581 | XP\_018761790.1 | Apple domain-containing protein |
| contig00025.g11645 | NC\_031682.1 | FVEG\_13584 | XP\_018761794.1 | Phosphatidylinositol-specific phospholipase C X domain |
| contig00036.g13641 | NC\_031682.1 | FVEG\_13840 | XP\_018762230.1 | Extracellular membrane protein CFEM domain-containing protein |
| contig00036.g13642 | NC\_031682.1 | FVEG\_13841 | XP\_018762231.1 | Pel9A-like right handed beta-helix region domain-containing protein |
| contig00036.g13648 | NC\_031682.1 | FVEG\_13846 | XP\_018762238.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00036.g13649 | NC\_031682.1 | FVEG\_13848 | XP\_018762240.1 | DUF4189 domain-containing protein |
| contig00036.g13650 | NC\_031682.1 | FVEG\_13849 | XP\_018762242.1 | Glucoamylase (EC 3.2.1.3) (1,4-alpha-D-glucan glucohydrolase) |
| contig00036.g13654 | NC\_031682.1 | FVEG\_13853 | XP\_018762246.1 | Apple domain-containing protein |
| contig00036.g13658 | NC\_031682.1 | FVEG\_13856 | XP\_018762250.1 | Uncharacterized protein |
| contig00036.g13666 | NC\_031682.1 | FVEG\_13865 | XP\_018762266.1 | Killer toxin Kp4 domain-containing protein |
| contig00036.g13672 | NC\_031682.1 | FVEG\_13872 | XP\_018762276.1 | Uncharacterized protein |
| contig00036.g13678 | NC\_031682.1 | FVEG\_13877 | XP\_018762282.1 | CBM-cenC domain-containing protein |
| contig00036.g13689 | NC\_031682.1 | FVEG\_13886 | XP\_018762295.1 | Lysine-specific metallo-endopeptidase domain-containing protein |
| contig00036.g13690 | NC\_031682.1 | FVEG\_13887 | XP\_018762296.1 | Methyl-accepting transducer domain-containing protein |
| contig00036.g13699 | NC\_031682.1 | FVEG\_13897 | XP\_018762309.1 | Immune-responsive protein 1 |
| contig00036.g13705 | NC\_031682.1 | FVEG\_13902 | XP\_018762316.1 | Uncharacterized protein |
| contig00036.g13713 | NC\_031682.1 | FVEG\_13909 | XP\_018762324.1 | 6-phosphogluconolactonase |
| contig00036.g13718 | NC\_031682.1 | FVEG\_13912 | XP\_018762329.1 | Apple domain-containing protein |
| contig00036.g13728 | NC\_031682.1 | FVEG\_13920 | XP\_018762340.1 | Uncharacterized protein |
| contig00036.g13733 | NC\_031682.1 | FVEG\_13926 | XP\_018762346.1 | Carboxylesterase type B domain-containing protein |
| contig00036.g13745 | NC\_031682.1 | FVEG\_13934 | XP\_018762357.1 | Subtilisin |
| contig00036.g13758 | NC\_031682.1 | FVEG\_13947 | XP\_018762374.1 | Uncharacterized protein |
| contig00036.g13759 | NC\_031682.1 | FVEG\_13948 | XP\_018762375.1 | DJ-1/PfpI domain-containing protein |
| contig00036.g13760 | NC\_031682.1 | FVEG\_13949 | XP\_018762376.1 | Epoxide hydrolase N-terminal domain-containing protein |
| contig00041.g14076 | NC\_031682.1 | FVEG\_13957 | XP\_018762388.1 | LysM domain-containing protein |
| contig00041.g14068 | NC\_031682.1 | FVEG\_13964 | XP\_018762396.1 | Killer toxin Kp4 domain-containing protein |
| contig00041.g14065 | NC\_031682.1 | FVEG\_13966 | XP\_018762399.1 | Hypersensitive response-inducing protein |
| contig00041.g14044 | NC\_031682.1 | FVEG\_13986 | XP\_018762423.1 | Uncharacterized protein |
| contig00014.g8246 | NC\_031682.1 | FVEG\_16133 | XP\_018753594.1 | Apple domain-containing protein |
| contig00014.g8313 | NC\_031682.1 | FVEG\_16144 | XP\_018753698.1 | Uncharacterized protein |
| contig00014.g8412 | NC\_031682.1 | FVEG\_16167 | XP\_018753815.1 | DUF6604 domain-containing protein |
| contig00025.g11886 | NC\_031682.1 | FVEG\_17506 | XP\_018761523.1 | Secreted protein |
| contig00025.g11793 | NC\_031682.1 | FVEG\_17524 | XP\_018761630.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00025.g11731 | NC\_031682.1 | FVEG\_17533 | XP\_018761698.1 | alpha,alpha-trehalase (EC 3.2.1.28) |
| contig00025.g11684 | NC\_031682.1 | FVEG\_17546 | XP\_018761748.1 | chitinase (EC 3.2.1.14) |
| contig00025.g11683 | NC\_031682.1 | FVEG\_17547 | XP\_018761749.1 | Glucan 1,3-beta-glucosidase |
| contig00036.g13681 | NC\_031682.1 | FVEG\_17643 | XP\_018762286.1 | CBM-cenC domain-containing protein |
| contig00013.g8017 | NC\_031683.1 | FVEG\_11018a | XP\_018758417.1 | Secreted protein |
| contig00009.g5850 | NC\_031683.1 | FVEG\_09988 | XP\_018757050.1 | DUF7908 domain-containing protein |
| contig00009.g5860 | NC\_031683.1 | FVEG\_09998 | XP\_018757063.1 | Uncharacterized protein |
| contig00009.g5862 | NC\_031683.1 | FVEG\_10000 | XP\_018757066.1 | Early nodulin 75 |
| contig00009.g5901 | NC\_031683.1 | FVEG\_10031 | XP\_018757105.1 | Ecp2 effector protein domain-containing protein |
| contig00009.g5902 | NC\_031683.1 | FVEG\_10032 | XP\_018757106.1 | alpha-1,2-Mannosidase (EC 3.2.1.-) |
| contig00009.g5926 | NC\_031683.1 | FVEG\_10058 | XP\_018757132.1 | Uncharacterized protein |
| contig00009.g5928 | NC\_031683.1 | FVEG\_10059 | XP\_018757134.1 | Ubiquitin 3 binding protein But2 C-terminal domain-containing protein |
| contig00009.g5937 | NC\_031683.1 | FVEG\_10071 | XP\_018757147.1 | Phospholipase A2 |
| contig00009.g5938 | NC\_031683.1 | FVEG\_10072 | XP\_018757148.1 | Carboxypeptidase Y inhibitor |
| contig00009.g5942 | NC\_031683.1 | FVEG\_10077 | XP\_018757152.1 | Protein rds1 |
| contig00009.g5948 | NC\_031683.1 | FVEG\_10083 | XP\_018757157.1 | Levanase |
| contig00009.g5958 | NC\_031683.1 | FVEG\_10092 | XP\_018757168.1 | AB hydrolase-1 domain-containing protein |
| contig00009.g5963 | NC\_031683.1 | FVEG\_10098 | XP\_018757172.1 | Uncharacterized protein |
| contig00009.g5965 | NC\_031683.1 | FVEG\_10100 | XP\_018757174.1 | CBM-cenC domain-containing protein |
| contig00009.g5966 | NC\_031683.1 | FVEG\_10101 | XP\_018757175.1 | pectate lyase (EC 4.2.2.2) |
| contig00009.g5967 | NC\_031683.1 | FVEG\_10102 | XP\_018757176.1 | Pectate lyase (EC 4.2.2.2) |
| contig00009.g5968 | NC\_031683.1 | FVEG\_10103 | XP\_018757177.1 | Isochorismatase-like domain-containing protein |
| contig00009.g5976 | NC\_031683.1 | FVEG\_10111 | XP\_018757186.1 | FAD-binding PCMH-type domain-containing protein |
| contig00009.g5980 | NC\_031683.1 | FVEG\_10115 | XP\_018757190.1 | Peptidase M20 dimerisation domain-containing protein |
| contig00009.g5981 | NC\_031683.1 | FVEG\_10116 | XP\_018757191.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00009.g5982 | NC\_031683.1 | FVEG\_10117 | XP\_018757192.1 | Multiple epidermal growth factor-like domains protein 6 |
| contig00009.g5985 | NC\_031683.1 | FVEG\_10119 | XP\_018757195.1 | Putative peptidase domain-containing protein |
| contig00009.g6013 | NC\_031683.1 | FVEG\_10146 | XP\_018757228.1 | Endonuclease/exonuclease/phosphatase domain-containing protein |
| contig00009.g6017 | NC\_031683.1 | FVEG\_10149 | XP\_018757231.1 | FAD-binding PCMH-type domain-containing protein |
| contig00009.g6064 | NC\_031683.1 | FVEG\_10189 | XP\_018757286.1 | Amidase domain-containing protein |
| contig00009.g6111 | NC\_031683.1 | FVEG\_10241 | XP\_018757355.1 | Expansin-like EG45 domain-containing protein |
| contig00009.g6154 | NC\_031683.1 | FVEG\_10284 | XP\_018757417.1 | Carboxypeptidase D |
| contig00009.g6203 | NC\_031683.1 | FVEG\_10333 | XP\_018757517.1 | Chitin binding protein |
| contig00009.g6234 | NC\_031683.1 | FVEG\_10364 | XP\_018757562.1 | Allergen Asp f 4 |
| contig00009.g6278 | NC\_031683.1 | FVEG\_10404 | XP\_018757627.1 | AA1-like domain-containing protein |
| contig00009.g6306 | NC\_031683.1 | FVEG\_10428 | XP\_018757665.1 | Secreted protein |
| contig00009.g6323 | NC\_031683.1 | FVEG\_10446 | XP\_018757689.1 | DUF1237 domain protein |
| contig00013.g8068 | NC\_031683.1 | FVEG\_10964 | XP\_018758347.1 | Uncharacterized protein |
| contig00013.g8054 | NC\_031683.1 | FVEG\_10979 | XP\_018758369.1 | Amine oxidase domain-containing protein |
| contig00013.g8024 | NC\_031683.1 | FVEG\_11011 | XP\_018758408.1 | PA14 domain-containing protein |
| contig00002.g2056 | NC\_031683.1 | FVEG\_11018 | XP\_018758417.1 | Secreted protein |
| contig00013.g8003 | NC\_031683.1 | FVEG\_11031 | XP\_018758432.1 | AB hydrolase-1 domain-containing protein |
| contig00013.g7976 | NC\_031683.1 | FVEG\_11053 | XP\_018758460.1 | Uncharacterized protein |
| contig00013.g7969 | NC\_031683.1 | FVEG\_11061 | XP\_018758469.1 | carbonic anhydrase (EC 4.2.1.1) |
| contig00013.g7965 | NC\_031683.1 | FVEG\_11065 | XP\_018758473.1 | Small secreted protein |
| contig00013.g7942 | NC\_031683.1 | FVEG\_11083 | XP\_018758496.1 | Secreted aspartic protease FUS4 (EC 3.4.23.-) |
| contig00013.g7939 | NC\_031683.1 | FVEG\_11087 | XP\_018758500.1 | Asl1-like glycosyl hydrolase catalytic domain-containing protein |
| contig00013.g7934 | NC\_031683.1 | FVEG\_11094 | XP\_018758506.1 | Phosphoglycerate mutase |
| contig00013.g7924 | NC\_031683.1 | FVEG\_11103 | XP\_018758520.1 | Uncharacterized protein |
| contig00013.g7914 | NC\_031683.1 | FVEG\_11115 | XP\_018758533.1 | CBM-cenC domain-containing protein |
| contig00013.g7902 | NC\_031683.1 | FVEG\_11125 | XP\_018758546.1 | 1-alkyl-2-acetylglycerophosphocholine esterase (EC 3.1.1.47) |
| contig00030.g12773 | NC\_031683.1 | FVEG\_11126 | XP\_018758547.1 | Jacalin-type lectin domain-containing protein |
| contig00013.g7900 | NC\_031683.1 | FVEG\_11127 | XP\_018758548.1 | Carboxypeptidase (EC 3.4.16.-) |
| contig00013.g7890 | NC\_031683.1 | FVEG\_11137 | XP\_018758560.1 | Tyrosinase copper-binding domain-containing protein |
| contig00013.g7874 | NC\_031683.1 | FVEG\_11151 | XP\_018758577.1 | Ecp2 effector protein domain-containing protein |
| contig00013.g7854 | NC\_031683.1 | FVEG\_11173 | XP\_018758606.1 | Cerato-platanin |
| contig00013.g7836 | NC\_031683.1 | FVEG\_11197 | XP\_018758643.1 | RlpA-like protein double-psi beta-barrel domain-containing protein |
| contig00013.g7835 | NC\_031683.1 | FVEG\_11198 | XP\_018758644.1 | FAD-binding PCMH-type domain-containing protein |
| contig00013.g7811 | NC\_031683.1 | FVEG\_11221 | XP\_018758672.1 | Peroxidase (EC 1.11.1.-) |
| contig00013.g7806 | NC\_031683.1 | FVEG\_11228 | XP\_018758677.1 | pectinesterase (EC 3.1.1.11) (Pectin methylesterase A) |
| contig00013.g7802 | NC\_031683.1 | FVEG\_11232 | XP\_018758681.1 | Apple domain-containing protein |
| contig00013.g7801 | NC\_031683.1 | FVEG\_11233 | XP\_018758682.1 | Pectate lyase domain-containing protein |
| contig00013.g7763 | NC\_031683.1 | FVEG\_11273 | XP\_018758736.1 | Phytocyanin domain-containing protein |
| contig00013.g7753 | NC\_031683.1 | FVEG\_11284 | XP\_018758755.1 | Late sexual development protein |
| contig00013.g7718 | NC\_031683.1 | FVEG\_11317 | XP\_018758818.1 | Peptidase A1 domain-containing protein |
| contig00009.g5962 | NC\_031683.1 | FVEG\_16722 | XP\_018757171.1 | Beta-galactosidase (EC 3.2.1.23) |
| contig00009.g6072 | NC\_031683.1 | FVEG\_16752 | XP\_018757295.1 | Proteophosphoglycan ppg4 |
| contig00013.g8010 | NC\_031683.1 | FVEG\_16950 | XP\_018758425.1 | Uncharacterized protein |
| contig00005.g3700 | NC\_031684.1 | FVEG\_08301 | XP\_018754781.1 | GH16 domain-containing protein |
| contig00005.g3707 | NC\_031684.1 | FVEG\_08305 | XP\_018754791.1 | Prolyl 4-hydroxylase alpha subunit domain-containing protein |
| contig00005.g3709 | NC\_031684.1 | FVEG\_08309 | XP\_018754795.1 | Tyrosinase copper-binding domain-containing protein |
| contig00005.g3738 | NC\_031684.1 | FVEG\_08331 | XP\_018754818.1 | GEgh 16 protein |
| contig00005.g3754 | NC\_031684.1 | FVEG\_08344 | XP\_018754835.1 | CBM6 domain-containing protein |
| contig00005.g3755 | NC\_031684.1 | FVEG\_08345 | XP\_018754836.1 | Murein transglycosylase |
| contig00005.g3757 | NC\_031684.1 | FVEG\_08347 | XP\_018754838.1 | Uncharacterized protein |
| contig00005.g3758 | NC\_031684.1 | FVEG\_08348 | XP\_018754839.1 | Ecp2 effector protein domain-containing protein |
| contig00005.g3759 | NC\_031684.1 | FVEG\_08349 | XP\_018754840.1 | Ecp2 effector protein domain-containing protein |
| contig00005.g3766 | NC\_031684.1 | FVEG\_08355 | XP\_018754849.1 | Alpha-L-rhamnosidase C-terminal domain-containing protein |
| contig00005.g3786 | NC\_031684.1 | FVEG\_08373 | XP\_018754870.1 | Aspergillopepsin-2 |
| contig00005.g3803 | NC\_031684.1 | FVEG\_08386 | XP\_018754890.1 | Zonadhesin |
| contig00005.g3810 | NC\_031684.1 | FVEG\_08392 | XP\_018754900.1 | WSC domain-containing protein |
| contig00005.g3815 | NC\_031684.1 | FVEG\_08397 | XP\_018754905.1 | CBM-cenC domain-containing protein |
| contig00005.g3821 | NC\_031684.1 | FVEG\_08403 | XP\_018754911.1 | Peptidase A1 domain-containing protein |
| contig00005.g3832 | NC\_031684.1 | FVEG\_08413 | XP\_018754925.1 | Glycoside hydrolase family 39 protein |
| contig00005.g3840 | NC\_031684.1 | FVEG\_08421 | XP\_018754934.1 | Endo-arabinase |
| contig00005.g3841 | NC\_031684.1 | FVEG\_08422 | XP\_018754937.1 | FAD-binding PCMH-type domain-containing protein |
| contig00005.g3848 | NC\_031684.1 | FVEG\_08430 | XP\_018754947.1 | Cytochrome P450 oxidoreductase |
| contig00005.g3853 | NC\_031684.1 | FVEG\_08435 | XP\_018754952.1 | CBM-cenC domain-containing protein |
| contig00005.g3872 | NC\_031684.1 | FVEG\_08451 | XP\_018754972.1 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| contig00005.g3879 | NC\_031684.1 | FVEG\_08459 | XP\_018754982.1 | Uncharacterized protein |
| contig00005.g3881 | NC\_031684.1 | FVEG\_08461 | XP\_018754984.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00005.g3890 | NC\_031684.1 | FVEG\_08470 | XP\_018754998.1 | chitinase (EC 3.2.1.14) |
| contig00005.g3933 | NC\_031684.1 | FVEG\_08511 | XP\_018755046.1 | Glycerol-3-phosphate dehydrogenase (EC 1.1.5.3) |
| contig00005.g3939 | NC\_031684.1 | FVEG\_08518 | XP\_018755055.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00005.g3967 | NC\_031684.1 | FVEG\_08546 | XP\_018755087.1 | Acriflavine sensitivity control protein acr-2 |
| contig00005.g3977 | NC\_031684.1 | FVEG\_08555 | XP\_018755097.1 | Galactose oxidase (EC 1.1.3.9) |
| contig00005.g3980 | NC\_031684.1 | FVEG\_08558 | XP\_018755100.1 | Secreted protein CSS2 C-terminal domain-containing protein |
| contig00005.g4007 | NC\_031684.1 | FVEG\_08586 | XP\_018755138.1 | Fungal N-terminal domain-containing protein |
| contig00005.g4020 | NC\_031684.1 | FVEG\_08596 | XP\_018755151.1 | TNT domain-containing protein |
| contig00005.g4030 | NC\_031684.1 | FVEG\_08605 | XP\_018755161.1 | Beta-xylosidase C-terminal Concanavalin A-like domain |
| contig00005.g4066 | NC\_031684.1 | FVEG\_08638 | XP\_018755204.1 | IDI-2 |
| contig00005.g4079 | NC\_031684.1 | FVEG\_08650 | XP\_018755218.1 | beta-glucosidase (EC 3.2.1.21) |
| contig00005.g4087 | NC\_031684.1 | FVEG\_08658 | XP\_018755227.1 | Phosphorylcholine phosphatase |
| contig00005.g4088 | NC\_031684.1 | FVEG\_08659 | XP\_018755228.1 | beta-galactosidase (EC 3.2.1.23) |
| contig00005.g4110 | NC\_031684.1 | FVEG\_08679 | XP\_018755253.1 | Alkaline proteinase |
| contig00005.g4117 | NC\_031684.1 | FVEG\_08686 | XP\_018755260.1 | SCP domain-containing protein |
| contig00005.g4119 | NC\_031684.1 | FVEG\_08688 | XP\_018755264.1 | Uncharacterized protein |
| contig00005.g4121 | NC\_031684.1 | FVEG\_08690 | XP\_018755265.1 | FAD-binding PCMH-type domain-containing protein |
| contig00005.g4124 | NC\_031684.1 | FVEG\_08694 | XP\_018755269.1 | FAD-binding PCMH-type domain-containing protein |
| contig00005.g4132 | NC\_031684.1 | FVEG\_08702 | XP\_018755278.1 | Glucose-methanol-choline oxidoreductase |
| contig00005.g4137 | NC\_031684.1 | FVEG\_08707 | XP\_018755284.1 | Glucose-methanol-choline oxidoreductase |
| contig00005.g4152 | NC\_031684.1 | FVEG\_08723 | XP\_018755302.1 | GH16 domain-containing protein |
| contig00005.g4167 | NC\_031684.1 | FVEG\_08734 | XP\_018755318.1 | Pectate lyase (EC 4.2.2.2) |
| contig00005.g4178 | NC\_031684.1 | FVEG\_08746 | XP\_018755331.1 | Uncharacterized protein |
| contig00005.g4180 | NC\_031684.1 | FVEG\_08748 | XP\_018755334.1 | Uncharacterized protein |
| contig00005.g4191 | NC\_031684.1 | FVEG\_08757 | XP\_018755347.1 | Heme haloperoxidase family profile domain-containing protein |
| contig00005.g4193 | NC\_031684.1 | FVEG\_08758 | XP\_018755349.1 | Apple domain-containing protein |
| contig00005.g4217 | NC\_031684.1 | FVEG\_08780 | XP\_018755379.1 | Carboxypeptidase M14A |
| contig00005.g4220 | NC\_031684.1 | FVEG\_08782 | XP\_018755382.1 | TNT domain-containing protein |
| contig00005.g4221 | NC\_031684.1 | FVEG\_08783 | XP\_018755383.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00005.g4223 | NC\_031684.1 | FVEG\_08785 | XP\_018755385.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00005.g4240 | NC\_031684.1 | FVEG\_08802 | XP\_018755408.1 | Ecp2 effector protein domain-containing protein |
| contig00005.g4246 | NC\_031684.1 | FVEG\_08808 | XP\_018755415.1 | Uncharacterized protein |
| contig00008.g5820 | NC\_031684.1 | FVEG\_08821 | XP\_018755431.1 | lytic cellulose monooxygenase (C4-dehydrogenating) (EC 1.14.99.56) |
| contig00008.g5817 | NC\_031684.1 | FVEG\_08824 | XP\_018755434.1 | Alpha-glucuronidase (EC 3.2.1.139) |
| contig00008.g5816 | NC\_031684.1 | FVEG\_08825 | XP\_018755435.1 | Glucanase (EC 3.2.1.-) |
| contig00008.g5812 | NC\_031684.1 | FVEG\_08828 | XP\_018755440.1 | Endo-1,4-beta-xylanase (EC 3.2.1.8) |
| contig00008.g5807 | NC\_031684.1 | FVEG\_08833 | XP\_018755445.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00008.g5804 | NC\_031684.1 | FVEG\_08836 | XP\_018755449.1 | Beta-xylosidase C-terminal Concanavalin A-like domain |
| contig00008.g5799 | NC\_031684.1 | FVEG\_08840 | XP\_018755454.1 | Uncharacterized protein |
| contig00008.g5785 | NC\_031684.1 | FVEG\_08854 | XP\_018755470.1 | Sialidase domain-containing protein |
| contig00008.g5780 | NC\_031684.1 | FVEG\_08858 | XP\_018755475.1 | Alginate lyase domain-containing protein |
| contig00008.g5770 | NC\_031684.1 | FVEG\_08867 | XP\_018755486.1 | Mutanase |
| contig00008.g5766 | NC\_031684.1 | FVEG\_08870 | XP\_018755490.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00008.g5764 | NC\_031684.1 | FVEG\_08871 | XP\_018755492.1 | CFEM domain-containing protein |
| contig00008.g5763 | NC\_031684.1 | FVEG\_08872 | XP\_018755493.1 | Uncharacterized protein |
| contig00008.g5743 | NC\_031684.1 | FVEG\_08891 | XP\_018755518.1 | Galactose oxidase (EC 1.1.3.9) (Sialidase-1) |
| contig00008.g5740 | NC\_031684.1 | FVEG\_08895 | XP\_018755523.1 | Uncharacterized protein |
| contig00008.g5739 | NC\_031684.1 | FVEG\_08896 | XP\_018755524.1 | Uncharacterized protein |
| contig00033.g13343 | NC\_031684.1 | FVEG\_13589 | XP\_018761800.1 | Uncharacterized protein |
| contig00033.g13326 | NC\_031684.1 | FVEG\_13605 | XP\_018761822.1 | Peptidase A1 domain-containing protein |
| contig00033.g13316 | NC\_031684.1 | FVEG\_13614 | XP\_018761833.1 | PRC1-carboxypeptidase y, serine-type protease |
| contig00033.g13302 | NC\_031684.1 | FVEG\_13630 | XP\_018761850.1 | Extracellular metalloproteinase (EC 3.4.24.-) (Fungalysin) |
| contig00033.g13295 | NC\_031684.1 | FVEG\_13638 | XP\_018761858.1 | cutinase (EC 3.1.1.74) |
| contig00033.g13290 | NC\_031684.1 | FVEG\_13642 | XP\_018761864.1 | Small secreted protein |
| contig00033.g13289 | NC\_031684.1 | FVEG\_13643 | XP\_018761865.1 | Uncharacterized protein |
| contig00033.g13276 | NC\_031684.1 | FVEG\_13655 | XP\_018761883.1 | EthD domain-containing protein |
| contig00033.g13274 | NC\_031684.1 | FVEG\_13657 | XP\_018761885.1 | glucan endo-1,3-beta-D-glucosidase (EC 3.2.1.39) |
| contig00033.g13263 | NC\_031684.1 | FVEG\_13667 | XP\_018761906.1 | Uncharacterized protein |
| contig00033.g13262 | NC\_031684.1 | FVEG\_13668 | XP\_018761907.1 | Ecp2 effector protein domain-containing protein |
| contig00033.g13260 | NC\_031684.1 | FVEG\_13669 | XP\_018761909.1 | Small secreted protein |
| contig00033.g13255 | NC\_031684.1 | FVEG\_13674 | XP\_018761914.1 | Apple domain-containing protein |
| contig00033.g13244 | NC\_031684.1 | FVEG\_13685 | XP\_018761925.1 | Acetylornithine deacetylase |
| contig00033.g13237 | NC\_031684.1 | FVEG\_13692 | XP\_018761933.1 | DUF985 domain-containing protein |
| contig00033.g13221 | NC\_031684.1 | FVEG\_13708 | XP\_018761950.1 | Uncharacterized protein |
| contig00033.g13217 | NC\_031684.1 | FVEG\_13711 | XP\_018761954.1 | pectin lyase (EC 4.2.2.10) |
| contig00033.g13201 | NC\_031684.1 | FVEG\_13728 | XP\_018761969.1 | Ig-like domain-containing protein |
| contig00033.g13199 | NC\_031684.1 | FVEG\_13730 | XP\_018761971.1 | NADP-dependent oxidoreductase domain-containing protein |
| contig00033.g13193 | NC\_031684.1 | FVEG\_13736 | XP\_018761979.1 | Right handed beta helix domain-containing protein |
| contig00033.g13172 | NC\_031684.1 | FVEG\_13757 | XP\_018762001.1 | SGNH hydrolase-type esterase domain-containing protein |
| contig00038.g13872 | NC\_031684.1 | FVEG\_13759 | XP\_018762003.1 | Probable glucan endo-1,3-beta-glucosidase eglC (EC 3.2.1.39) |
| contig00038.g13879 | NC\_031684.1 | FVEG\_13765 | XP\_018762011.1 | LysM domain-containing protein |
| contig00038.g13880 | NC\_031684.1 | FVEG\_13766 | XP\_018762012.1 | LysM domain-containing protein |
| contig00038.g13889 | NC\_031684.1 | FVEG\_13776 | XP\_018762025.1 | Tyrosinase copper-binding domain-containing protein |
| contig00038.g13901 | NC\_031684.1 | FVEG\_13788 | XP\_018762038.1 | Apple domain-containing protein |
| contig00038.g13923 | NC\_031684.1 | FVEG\_13811 | XP\_018762061.1 | Alkaline protease 1 |
| contig00038.g13925 | NC\_031684.1 | FVEG\_13813 | XP\_018762063.1 | alpha-galactosidase (EC 3.2.1.22) |
| contig00038.g13931 | NC\_031684.1 | FVEG\_13819 | XP\_018762072.1 | NodB homology domain-containing protein |
| contig00038.g13935 | NC\_031684.1 | FVEG\_13823 | XP\_018762078.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00038.g13940 | NC\_031684.1 | FVEG\_13826 | XP\_018762083.1 | SMP-30/Gluconolactonase/LRE-like region domain-containing protein |
| contig00038.g13946 | NC\_031684.1 | FVEG\_13832 | XP\_018762091.1 | DUF7872 domain-containing protein |
| contig00038.g13947 | NC\_031684.1 | FVEG\_13833 | XP\_018762092.1 | Uncharacterized protein |
| contig00038.g13948 | NC\_031684.1 | FVEG\_13834 | XP\_018762093.1 | Uncharacterized protein |
| contig00005.g3779 | NC\_031684.1 | FVEG\_16301 | XP\_018754862.1 | Ecp2 effector protein domain-containing protein |
| contig00005.g3950 | NC\_031684.1 | FVEG\_16349 | XP\_018755067.1 | Uncharacterized protein |
| contig00005.g4033 | NC\_031684.1 | FVEG\_16373 | XP\_018755165.1 | WSC domain-containing protein |
| contig00005.g4050 | NC\_031684.1 | FVEG\_16379 | XP\_018755184.1 | Apple domain-containing protein |
| contig00005.g4091 | NC\_031684.1 | FVEG\_16393 | XP\_018755232.1 | Ig-like domain-containing protein |
| contig00005.g4098 | NC\_031684.1 | FVEG\_16396 | XP\_018755241.1 | Beta-galactosidase |
| contig00005.g4111 | NC\_031684.1 | FVEG\_16398 | XP\_018755254.1 | Tenascin X |
| contig00005.g4162 | NC\_031684.1 | FVEG\_16409 | XP\_018755313.1 | FAD-binding PCMH-type domain-containing protein |
| contig00005.g4238 | NC\_031684.1 | FVEG\_16443 | XP\_018755405.1 | Uncharacterized protein |
| contig00008.g5791 | NC\_031684.1 | FVEG\_16455 | XP\_018755462.1 | Uncharacterized protein |
| contig00038.g13878 | NC\_031684.1 | FVEG\_17600 | XP\_018762010.1 | chitinase (EC 3.2.1.14) |
| contig00038.g13929 | NC\_031684.1 | FVEG\_17613 | XP\_018762070.1 | Exo-1,4-beta-D-glucosaminidase |
| contig00038.g13937 | NC\_031684.1 | FVEG\_17615 | XP\_018762080.1 | Apple domain-containing protein |
| contig00022.g10881 | NC\_031685.1 | FVEG\_10538 | XP\_018757812.1 | AttH domain-containing protein |
| contig00022.g10885 | NC\_031685.1 | FVEG\_10542 | XP\_018757816.1 | Cupin type-1 domain-containing protein |
| contig00022.g10887 | NC\_031685.1 | FVEG\_10544 | XP\_018757818.1 | Ig-like domain-containing protein |
| contig00022.g10907 | NC\_031685.1 | FVEG\_10558 | XP\_018757835.1 | Peptide hydrolase (EC 3.4.-.-) |
| contig00022.g10921 | NC\_031685.1 | FVEG\_10576 | XP\_018757862.1 | Uncharacterized protein |
| contig00022.g10924 | NC\_031685.1 | FVEG\_10579 | XP\_018757865.1 | Fungal calcium binding protein domain-containing protein |
| contig00022.g10928 | NC\_031685.1 | FVEG\_10582 | XP\_018757870.1 | Heme haloperoxidase family profile domain-containing protein |
| contig00022.g10930 | NC\_031685.1 | FVEG\_10584 | XP\_018757872.1 | Choline dehydrogenase |
| contig00022.g10976 | NC\_031685.1 | FVEG\_10600 | XP\_018757894.1 | Ecp2 effector protein domain-containing protein |
| contig00022.g10974 | NC\_031685.1 | FVEG\_10602 | XP\_018757896.1 | Carboxypeptidase M14B (Carboxypeptidase MCPB) |
| contig00022.g10971 | NC\_031685.1 | FVEG\_10605 | XP\_018757899.1 | Alpha-L-rhamnosidase six-hairpin glycosidase domain |
| contig00022.g10951 | NC\_031685.1 | FVEG\_10624 | XP\_018757923.1 | Arabinan endo-1,5-alpha-L-arabinosidase (EC 3.2.1.99) |
| contig00022.g10950 | NC\_031685.1 | FVEG\_10625 | XP\_018757924.1 | Uncharacterized protein |
| contig00022.g10992 | NC\_031685.1 | FVEG\_10647 | XP\_018757949.1 | FAD-binding domain-containing protein |
| contig00022.g11020 | NC\_031685.1 | FVEG\_10673 | XP\_018757981.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00022.g11086 | NC\_031685.1 | FVEG\_10735 | XP\_018758065.1 | BNR/Asp-box repeat domain protein |
| contig00022.g11088 | NC\_031685.1 | FVEG\_10738 | XP\_018758069.1 | Tat pathway signal sequence domain protein |
| contig00022.g11090 | NC\_031685.1 | FVEG\_10740 | XP\_018758071.1 | Beta-lactamase-related domain-containing protein |
| contig00022.g11095 | NC\_031685.1 | FVEG\_10744 | XP\_018758077.1 | Alpha-L-arabinofuranosidase II |
| contig00022.g11098 | NC\_031685.1 | FVEG\_10747 | XP\_018758080.1 | Ubiquitin 3 binding protein But2 C-terminal domain-containing protein |
| contig00028.g12312 | NC\_031685.1 | FVEG\_10761 | XP\_018758099.1 | Ecp2 effector protein domain-containing protein |
| contig00028.g12315 | NC\_031685.1 | FVEG\_10764 | XP\_018758102.1 | Multiprotein-bridging factor 1 |
| contig00028.g12316 | NC\_031685.1 | FVEG\_10765 | XP\_018758103.1 | Uncharacterized protein |
| contig00028.g12322 | NC\_031685.1 | FVEG\_10770 | XP\_018758110.1 | Uncharacterized protein |
| contig00028.g12347 | NC\_031685.1 | FVEG\_10795 | XP\_018758142.1 | Pectinesterase (EC 3.1.1.11) |
| contig00028.g12348 | NC\_031685.1 | FVEG\_10796 | XP\_018758143.1 | Uncharacterized protein |
| contig00028.g12351 | NC\_031685.1 | FVEG\_10798 | XP\_018758146.1 | Peptidase S9 prolyl oligopeptidase catalytic domain-containing protein |
| contig00028.g12363 | NC\_031685.1 | FVEG\_10812 | XP\_018758160.1 | CBM-cenC domain-containing protein |
| contig00028.g12365 | NC\_031685.1 | FVEG\_10814 | XP\_018758162.1 | Pel9A-like right handed beta-helix region domain-containing protein |
| contig00028.g12387 | NC\_031685.1 | FVEG\_10833 | XP\_018758187.1 | SCP domain-containing protein |
| contig00028.g12400 | NC\_031685.1 | FVEG\_10845 | XP\_018758202.1 | Right handed beta helix domain-containing protein |
| contig00028.g12402 | NC\_031685.1 | FVEG\_10848 | XP\_018758205.1 | Antigenic cell wall galactomannoprotein |
| contig00028.g12413 | NC\_031685.1 | FVEG\_10860 | XP\_018758220.1 | Uncharacterized protein |
| contig00028.g12415 | NC\_031685.1 | FVEG\_10862 | XP\_018758222.1 | Pectate lyase (EC 4.2.2.2) |
| contig00028.g12416 | NC\_031685.1 | FVEG\_10863 | XP\_018758223.1 | Cuticle-degrading protease |
| contig00028.g12419 | NC\_031685.1 | FVEG\_10867 | XP\_018758228.1 | FAD-binding PCMH-type domain-containing protein |
| contig00028.g12421 | NC\_031685.1 | FVEG\_10869 | XP\_018758230.1 | Uncharacterized protein |
| contig00028.g12446 | NC\_031685.1 | FVEG\_10896 | XP\_018758260.1 | Cellulose-binding protein |
| contig00028.g12447 | NC\_031685.1 | FVEG\_10897 | XP\_018758261.1 | Glucanase (EC 3.2.1.-) |
| contig00028.g12452 | NC\_031685.1 | FVEG\_10901 | XP\_018758269.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00028.g12458 | NC\_031685.1 | FVEG\_10907 | XP\_018758275.1 | N1-acetylpolyamine oxidase |
| contig00028.g12476 | NC\_031685.1 | FVEG\_10918 | XP\_018758291.1 | Secreted protein |
| contig00028.g12485 | NC\_031685.1 | FVEG\_10926 | XP\_018758302.1 | Acid phosphatase |
| contig00028.g12487 | NC\_031685.1 | FVEG\_10928 | XP\_018758305.1 | DUF7029 domain-containing protein |
| contig00028.g12495 | NC\_031685.1 | FVEG\_10936 | XP\_018758314.1 | ribonuclease T2 (EC 4.6.1.19) |
| contig00028.g12501 | NC\_031685.1 | FVEG\_10941 | XP\_018758320.1 | Necrosis inducing protein (NPP1) |
| contig00028.g12518 | NC\_031685.1 | FVEG\_10956 | XP\_018758339.1 | ShKT domain-containing protein |
| contig00028.g12524 | NC\_031685.1 | FVEG\_10963 | XP\_018758346.1 | Inositol polyphosphate-related phosphatase domain |
| contig00037.g13861 | NC\_031685.1 | FVEG\_12823 | XP\_018760862.1 | Amine oxidase (EC 1.4.3.-) |
| contig00037.g13842 | NC\_031685.1 | FVEG\_12840 | XP\_018760885.1 | GH16 domain-containing protein |
| contig00037.g13824 | NC\_031685.1 | FVEG\_12856 | XP\_018760913.1 | Spore coat protein SP96 |
| contig00037.g13802 | NC\_031685.1 | FVEG\_12878 | XP\_018760946.1 | Carboxypeptidase (EC 3.4.16.-) |
| contig00037.g13801 | NC\_031685.1 | FVEG\_12879 | XP\_018760947.1 | Uncharacterized protein |
| contig00037.g13792 | NC\_031685.1 | FVEG\_12888 | XP\_018760958.1 | Catalase-peroxidase (CP) (EC 1.11.1.21) (Peroxidase/catalase) |
| contig00037.g13776 | NC\_031685.1 | FVEG\_12905 | XP\_018760980.1 | Uncharacterized protein |
| contig00037.g13769 | NC\_031685.1 | FVEG\_12910 | XP\_018760988.1 | Gluconolactonase |
| contig00037.g13766 | NC\_031685.1 | FVEG\_12913 | XP\_018760991.1 | Endoglycoceramidase |
| contig00034.g13348 | NC\_031685.1 | FVEG\_12922 | XP\_018761002.1 | Uncharacterized protein |
| contig00034.g13355 | NC\_031685.1 | FVEG\_12928 | XP\_018761009.1 | Acid phosphatase |
| contig00034.g13357 | NC\_031685.1 | FVEG\_12930 | XP\_018761011.1 | cellulase (EC 3.2.1.4) |
| contig00034.g13361 | NC\_031685.1 | FVEG\_12936 | XP\_018761017.1 | Tyrosinase copper-binding domain |
| contig00004.g3510 | NC\_031685.1 | FVEG\_12952 | XP\_018761036.1 | Alpha-L-arabinofuranosidase (EC 3.2.1.55) |
| contig00034.g13383 | NC\_031685.1 | FVEG\_12957 | XP\_018761041.1 | Alpha-amylase |
| contig00034.g13390 | NC\_031685.1 | FVEG\_12964 | XP\_018761049.1 | Peptidase M43 pregnancy-associated plasma-A domain |
| contig00034.g13392 | NC\_031685.1 | FVEG\_12965 | XP\_018761050.1 | GH16 domain-containing protein |
| contig00034.g13414 | NC\_031685.1 | FVEG\_12983 | XP\_018761075.1 | Peptidase M6-like domain-containing protein |
| contig00034.g13416 | NC\_031685.1 | FVEG\_12984 | XP\_018761077.1 | Apple domain-containing protein |
| contig00034.g13439 | NC\_031685.1 | FVEG\_13004 | XP\_018761101.1 | Uncharacterized protein |
| contig00034.g13443 | NC\_031685.1 | FVEG\_13008 | XP\_018761105.1 | Gylcosyl hydrolase 115 C-terminal domain |
| contig00034.g13492 | NC\_031685.1 | FVEG\_13055 | XP\_018761171.1 | Beta-glucosidase cel3A (EC 3.2.1.21) |
| contig00034.g13515 | NC\_031685.1 | FVEG\_13080 | XP\_018761198.1 | GEgh 16 protein |
| contig00022.g10823 | NC\_031685.1 | FVEG\_16810 | XP\_018757742.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00022.g10864 | NC\_031685.1 | FVEG\_16817 | XP\_018757790.1 | Antifungal protein |
| contig00022.g10866 | NC\_031685.1 | FVEG\_16818 | XP\_018757792.1 | Secreted protein |
| contig00022.g10899 | NC\_031685.1 | FVEG\_16828 | XP\_018757832.1 | Extracellular membrane protein CFEM domain |
| contig00022.g11027 | NC\_031685.1 | FVEG\_16861 | XP\_018757988.1 | Uncharacterized protein |
| contig00034.g13413 | NC\_031685.1 | FVEG\_17415 | XP\_018761074.1 | Uncharacterized protein |
| contig00034.g13415 | NC\_031685.1 | FVEG\_17416 | XP\_018761076.1 | Uncharacterized protein |
| contig00034.g13425 | NC\_031685.1 | FVEG\_17418 | XP\_018761086.1 | Uncharacterized protein |
| contig00034.g13378 | NC\_031685.1 | . | XP\_018761036.1 | alpha-N-arabinofuranosidase |
| contig00043.g14138 | NW\_017387866.1 | FVEG\_14091 | XP\_018762185.1 | Carboxylic ester hydrolase (EC 3.1.1.-) |
| contig00043.g14137 | NW\_017387866.1 | FVEG\_14092 | XP\_018762186.1 | Ricin B lectin |
| contig00030.g12800 | NW\_017387870.1 | FVEG\_13989 | XP\_018762428.1 | SMP-30/Gluconolactonase/LRE-like region domain |
| contig00030.g12825 | NW\_017387870.1 | FVEG\_14015 | XP\_018762460.1 | Uncharacterized protein |
| contig00030.g12833 | NW\_017387870.1 | FVEG\_14021 | XP\_018762468.1 | Uncharacterized protein |
| contig00030.g12837 | NW\_017387870.1 | FVEG\_14025 | XP\_018762472.1 | Uncharacterized protein |
| contig00030.g12815 | NW\_017387870.1 | FVEG\_17692 | XP\_018762445.1 | Uncharacterized protein |
| contig00030.g12826 | NW\_017387870.1 | FVEG\_17699 | XP\_018762461.1 | Heterokaryon incompatibility domain-containing protein |
| contig00023.g11142 | NW\_017387871.1 | FVEG\_14117 | XP\_018762478.1 | Uncharacterized protein |
| contig00023.g11123 | NW\_017387871.1 | FVEG\_14136 | XP\_018762500.1 | alpha-glucosidase (EC 3.2.1.20) |
| contig00023.g11119 | NW\_017387871.1 | FVEG\_14140 | XP\_018762505.1 | Glucose-methanol-choline oxidoreductase |
| contig00018.g9698 | . | FVER14953\_20274b | RBQ75082.1 | hypothetical protein |
| contig00030.g12704 | . | FVER53263\_20291b | RBQ86236.1 | hypothetical protein |
| contig00030.g12716 | . | FVER53263\_20411b | RBQ87190.1 | hypothetical protein |
| contig00034.g13462 | . | FVER53590\_30399b | RBR11767.1 | hypothetical protein |
| contig00030.g12741 | . | FVER53263\_20903b | RBR01903.1 | hypothetical protein |

a Duplicated

b According to Australian isolates of Fusarium verticillioides strain BRIP14953 (QFXM00000000.1)

**Supplementary Table 2.** The secretome of *F. verticillioides* (DA42 strain) is analyzed according to Figure 2.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **contig** | **gene name** | **score** | **COG category** | **EC** | **KEGG ko** | **BRITE** | **CAZy** | **PFAMs** |
| contig00001.g1022 | FVEG\_01038 | 1154 | BK | - | ko:K11770 | ko00000,ko03021,ko03036 | - | GATA,SNF5 |
| contig00001.g1046 | FVEG\_01064 | 608 | - | - | - | - | - | - |
| contig00001.g1084 | FVEG\_01111 | 514 | - | - | - | - | - | - |
| contig00001.g1086 | FVEG\_01112 | 1055 | G | 4.2.2.23 | ko:K18195 | ko00000,ko01000 | PL4 | CBM-like,RhgB\_N,fn3\_3 |
| contig00001.g1208 | FVEG\_01240 | 1234 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Glyco\_hydro\_18 |
| contig00001.g1210 | FVEG\_01243 | 603 | S | - | - | - | - | HAD |
| contig00001.g122 | FVEG\_00120 | 276 | - | - | - | - | - | - |
| contig00001.g124 | FVEG\_00121 | 115 | - | - | - | - | - | - |
| contig00001.g1243 | FVEG\_01275 | 1300 | I | 3.6.1.10 | ko:K06018 | ko00000,ko01000 | - | Metallophos |
| contig00001.g127 | FVEG\_00123 | 205 | - | - | - | - | - | - |
| contig00001.g1320 | FVEG\_01351 | 630 | S | - | - | - | - | Lipase\_GDSL\_2,MU117,Spherulin4,VCBS |
| contig00001.g1330 | FVEG\_01361 | 126 | S | - | - | - | - | Yos1 |
| contig00001.g1337 | FVEG\_01368 | 352 | - | - | - | - | - | - |
| contig00001.g1338 | FVEG\_01369 | 831 | G | 3.1.1.73 | ko:K21016 | ko00000,ko01000 | - | Lipase\_3 |
| contig00001.g14 | FVEG\_00014 | 423 | S | - | - | - | - | DUF3129 |
| contig00001.g141 | FVEG\_00136 | 512 | E | 3.1.1.86 | ko:K15530 | ko00000,ko01000 | - | Lipase\_GDSL\_2 |
| contig00001.g167 | FVEG\_14597 | 655 | S | - | - | - | - | Lipase\_GDSL\_2,VCBS |
| contig00001.g2 | FVEG\_00003 | 180 | - | - | - | - | - | - |
| contig00001.g201 | FVEG\_00200 | 668 | G | - | - | - | - | Glyco\_hydro\_16 |
| contig00001.g211 | FVEG\_00212 | 1035 | O | 3.4.21.48 | ko:K01336 | ko00000,ko00001,ko01000,ko01002,ko03110 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00001.g224 | FVEG\_00226 | 179 | - | - | - | - | - | - |
| contig00001.g247 | FVEG\_00250 | 781 | L | 3.2.1.40 | ko:K05989 | ko00000,ko01000 | - | Fungal\_trans |
| contig00001.g258 | FVEG\_00262 | 1263 | E | 1.1.99.1 | ko:K00108 | ko00000,ko00001,ko00002,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00001.g26 | FVEG\_00027 | 771 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00001.g261 | FVEG\_00265 | 264 | - | - | - | - | - | - |
| contig00001.g267 | FVEG\_00271 | 983 | S | - | ko:K21403 | ko00000,ko01000 | - | His\_Phos\_2 |
| contig00001.g268 | FVEG\_00272 | 880 | B | - | ko:K07117,ko:K11426 | ko00000,ko03036 | - | SET |
| contig00001.g269 | FVEG\_00273 | 130 | - | - | - | - | - | - |
| contig00001.g287 | FVEG\_00291 | 1744 | S | 1.1.3.9 | ko:K04618 | ko00000,ko00001,ko01000 | - | DUF1929,F5\_F8\_type\_C,Kelch\_1,Kelch\_4,Kelch\_6 |
| contig00001.g294 | FVEG\_00297 | 1254 | F | - | - | - | - | Metallophos |
| contig00001.g295 | FVEG\_00298 | 172 | - | - | - | - | - | - |
| contig00001.g3 | FVEG\_14562 | 367 | Q | - | - | - | - | p450 |
| contig00001.g346 | FVEG\_00352 | 1303 | G | - | - | - | - | Glyco\_hydro\_76 |
| contig00001.g365 | FVEG\_00370 | 776 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00001.g384 | FVEG\_02824 | 1004 | - | - | - | - | - | - |
| contig00001.g402 | FVEG\_00392 | 1232 | - | - | - | - | - | - |
| contig00001.g407 | FVEG\_00396 | 446 | S | - | - | - | - | Cutinase |
| contig00001.g408 | FVEG\_00397 | 452 | S | - | - | - | - | Cutinase |
| contig00001.g46 | FVEG\_00044 | 1374 | G | 3.2.1.6 | ko:K01180 | ko00000,ko01000 | - | Glyco\_hydro\_81 |
| contig00001.g47 | FVEG\_00045 | 717 | O | 3.4.23.1,3.4.23.34 | ko:K01382,ko:K06002 | ko00000,ko00001,ko01000,ko01002 | - | Asp |
| contig00001.g491 | FVEG\_14670 | 1016 | S | - | - | - | - | UPF0183 |
| contig00001.g51 | FVEG\_14574 | 311 | S | - | - | - | - | - |
| contig00001.g544 | FVEG\_00537 | 1245 | G | 3.2.1.113 | ko:K01230 | ko00000,ko00001,ko00002,ko01000,ko04131 | GH47 | Glyco\_hydro\_47 |
| contig00001.g562 | FVEG\_00554 | 678 | S | - | - | - | - | - |
| contig00001.g63 | FVEG\_00062 | 266 | - | - | - | - | - | - |
| contig00001.g635 | FVEG\_00632 | 905 | S | - | - | - | - | DUF2401,DUF2403 |
| contig00001.g64 | FVEG\_00063 | 142 | S | - | - | - | - | HET |
| contig00001.g646 | FVEG\_00645 | 1043 | - | - | - | - | - | - |
| contig00001.g756 | FVEG\_00761 | 677 | O | - | - | - | - | Glyco\_hydro\_cc |
| contig00001.g836 | FVEG\_00846 | 221 | - | - | - | - | - | - |
| contig00001.g898 | FVEG\_00910 | 624 | S | - | - | - | - | Terpene\_synth\_C |
| contig00001.g99 | FVEG\_00097 | 873 | - | - | - | - | - | - |
| contig00002.g1352 | FVEG\_05034 | 496 | - | - | - | - | - | - |
| contig00002.g1379 | FVEG\_15586 | 1359 | O | - | - | - | - | Peptidase\_S8,fn3\_5 |
| contig00002.g1416 | FVEG\_04968 | 1384 | S | - | - | - | - | - |
| contig00002.g1438 | FVEG\_04947 | 1207 | G | 3.2.1.3 | ko:K01178 | ko00000,ko00001,ko01000 | GH15 | CBM\_20,Glyco\_hydro\_15 |
| contig00002.g1455 | FVEG\_04931 | 543 | S | - | - | - | - | DJ-1\_PfpI |
| contig00002.g1501 | FVEG\_04883 | 1690 | G | 3.2.1.106 | ko:K01228 | ko00000,ko00001,ko00002,ko01000,ko04147 | - | Glyco\_hydro\_63,Glyco\_hydro\_63N |
| contig00002.g1542 | FVEG\_04842 | 711 | S | - | ko:K06911 | ko00000 | - | Pirin,Pirin\_C |
| contig00002.g1545 | FVEG\_04840 | 501 | - | - | - | - | - | - |
| contig00002.g1551 | FVEG\_04834 | 1382 | S | - | - | - | - | Het-C |
| contig00002.g1618 | FVEG\_04765 | 488 | - | - | - | - | - | - |
| contig00002.g1633 | FVEG\_04751 | 1369 | O | 4.2.2.23 | ko:K18195 | ko00000,ko01000 | PL4 | CBM-like,fn3\_3 |
| contig00002.g1641 | FVEG\_04743 | 576 | O | 1.14.99.54 | ko:K19356 | ko00000,ko01000 | AA9,CBM1 | CBM\_1,Glyco\_hydro\_61 |
| contig00002.g1665 | FVEG\_04722 | 655 | - | - | - | - | - | - |
| contig00002.g1701 | FVEG\_04685 | 1086 | H | 1.8.3.5,1.8.3.6 | ko:K05906 | ko00000,ko00001,ko01000 | - | NAD\_binding\_8,Prenylcys\_lyase |
| contig00002.g1734 | FVEG\_04647 | 469 | S | - | - | - | - | NPP1 |
| contig00002.g1766 | FVEG\_04610 | 1082 | E | 1.1.99.18 | ko:K19069 | ko00000,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00002.g1775 | FVEG\_04601 | 814 | - | - | - | - | - | - |
| contig00002.g1812 | FVEG\_04567 | 209 | - | - | - | - | - | - |
| contig00002.g1820 | FVEG\_04559 | 1090 | G | 3.1.1.1,3.1.1.56,3.1.1.84 | ko:K03927,ko:K15743 | ko00000,ko00001,ko01000 | CE10 | COesterase |
| contig00002.g1822 | FVEG\_04558 | 774 | C | 1.1.2.3 | ko:K00101 | ko00000,ko00001,ko01000 | - | FMN\_dh |
| contig00002.g1826 | FVEG\_04555 | 1040 | S | - | - | - | - | Beta-lactamase |
| contig00002.g1851 | FVEG\_04529 | 669 | G | - | - | - | - | Lipase3\_N,Lipase\_3 |
| contig00002.g1879 | FVEG\_04501 | 590 | S | 3.1.3.5 | ko:K03787 | ko00000,ko00001,ko01000 | - | SurE |
| contig00002.g1920 | FVEG\_04460 | 472 | G | 3.2.1.151 | ko:K18576 | ko00000,ko01000 | GH12 | Glyco\_hydro\_12 |
| contig00002.g1923 | FVEG\_04457 | 837 | O | 3.5.1.41 | ko:K01452 | ko00000,ko00001,ko01000 | - | Chitin\_bind\_1,Polysacc\_deac\_1 |
| contig00002.g1930 | FVEG\_04450 | 903 | S | - | - | - | - | DUF4419 |
| contig00002.g1931 | FVEG\_15481 | 220 | - | - | - | - | - | - |
| contig00002.g1957 | FVEG\_04421 | 1022 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00002.g1978 | FVEG\_04402 | 1210 | O | 3.4.16.6 | ko:K01288 | ko00000,ko01000,ko01002 | - | Peptidase\_S10 |
| contig00002.g1990 | FVEG\_04390 | 797 | C | 1.14.13.1 | ko:K00480 | ko00000,ko00001,ko01000 | - | FAD\_binding\_3,NAD\_binding\_8 |
| contig00002.g2014 | FVEG\_04369 | 1253 | J | - | - | - | - | Amidase |
| contig00002.g2015 | FVEG\_04368 | 1519 | Q | 1.4.3.21 | ko:K00276 | ko00000,ko00001,ko01000 | - | Cu\_amine\_oxid,Cu\_amine\_oxidN2,DUF1965 |
| contig00002.g2016 | FVEG\_04367 | 326 | - | - | - | - | - | - |
| contig00002.g2018 | FVEG\_15461 | 73.6 | O | - | - | - | - | TIL |
| contig00002.g2033 | FVEG\_04351 | 733 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18 |
| contig00002.g2056 | FVEG\_11018 | 53.9 | - | - | - | - | - | - |
| contig00002.g2060 | FVEG\_04326 | 347 | - | - | - | - | - | - |
| contig00002.g2061 | FVEG\_04325 | 1126 | S | - | - | - | - | - |
| contig00002.g2076 | FVEG\_04310 | 976 | G | - | ko:K22390 | ko00000 | - | Metallophos,Metallophos\_C,Pur\_ac\_phosph\_N,Ribonuclease\_3 |
| contig00003.g2112 | FVEG\_05778 | 1120 | - | - | - | - | - | - |
| contig00003.g2116 | FVEG\_05774 | 459 | - | - | - | - | - | - |
| contig00003.g2118 | FVEG\_05772 | 516 | G | - | - | - | - | Polysacc\_deac\_1 |
| contig00003.g2125 | FVEG\_05764 | 1261 | J | - | - | - | - | Amidase |
| contig00003.g2126 | FVEG\_05763 | 741 | O | - | - | - | - | Asp |
| contig00003.g2136 | FVEG\_05753 | 754 | O | - | - | - | - | Dioxygenase\_C |
| contig00003.g2146 | FVEG\_05745 | 209 | - | - | - | - | - | - |
| contig00003.g2152 | FVEG\_05740 | 349 | - | - | - | - | - | - |
| contig00003.g2153 | FVEG\_05739 | 225 | - | - | - | - | - | - |
| contig00003.g2154 | FVEG\_05738 | 523 | - | - | - | - | - | - |
| contig00003.g2161 | FVEG\_05730 | 518 | - | - | - | - | - | - |
| contig00003.g2162 | FVEG\_05729 | 1781 | - | - | - | - | - | PAN\_1 |
| contig00003.g2166 | FVEG\_05726 | 1076 | Q | - | - | - | - | Lipoxygenase |
| contig00003.g2173 | FVEG\_05717 | 521 | S | - | - | - | - | GLEYA |
| contig00003.g2189 | FVEG\_05700 | 737 | G | 4.2.2.10 | ko:K01732 | ko00000,ko01000 | - | Pec\_lyase\_C |
| contig00003.g2190 | FVEG\_05699 | 1246 | G | - | - | - | - | Amidohydro\_3 |
| contig00003.g2193 | FVEG\_05697 | 935 | G | 3.2.1.171 | ko:K18580 | ko00000,ko01000 | GH28 | Glyco\_hydro\_28 |
| contig00003.g2196 | FVEG\_05694 | 994 | - | - | - | - | - | - |
| contig00003.g2200 | FVEG\_05691 | 680 | I | - | - | - | - | Abhydrolase\_1 |
| contig00003.g2203 | FVEG\_05689 | 1372 | O | 3.2.1.55 | ko:K01209 | ko00000,ko00001,ko01000 | GH51 | Alpha-L-AF\_C,CBM\_4\_9 |
| contig00003.g2214 | FVEG\_05679 | 489 | S | - | ko:K20628 | ko00000 | - | Cerato-platanin,Pollen\_allerg\_1 |
| contig00003.g2238 | FVEG\_05658 | 1228 | O | - | - | - | - | Peptidase\_S10 |
| contig00003.g2242 | FVEG\_05654 | 745 | S | - | - | - | - | Abhydrolase\_6,Hydrolase\_4 |
| contig00003.g2246 | FVEG\_05650 | 931 | O | - | - | - | - | Asp |
| contig00003.g2253 | FVEG\_05642 | 672 | S | - | - | - | - | LPMO\_10 |
| contig00003.g2292 | FVEG\_05601 | 988 | O | - | - | - | - | PA,Peptidase\_M28 |
| contig00003.g2300 | FVEG\_05596 | 889 | O | - | - | - | - | Chitin\_bind\_1,Polysacc\_deac\_1 |
| contig00003.g2331 | FVEG\_05561 | 1766 | O | - | - | - | - | FlgD\_ig,PA,Peptidase\_S8,fn3\_5 |
| contig00003.g2350 | FVEG\_05540 | 1023 | G | - | - | - | - | COesterase |
| contig00003.g2368 | FVEG\_05521 | 1786 | G | 3.2.1.21 | ko:K05349 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00003.g2378 | FVEG\_05513 | 1281 | P | 3.1.3.1 | ko:K01113 | ko00000,ko00001,ko00002,ko01000 | - | PhoD,PhoD\_N |
| contig00003.g2382 | FVEG\_05510 | 867 | O | - | - | - | - | M20\_dimer,Peptidase\_M20 |
| contig00003.g2384 | FVEG\_05507 | 1542 | G | 3.2.1.58 | ko:K01210 | ko00000,ko00001,ko01000 | - | Pectate\_lyase\_3 |
| contig00003.g2388 | FVEG\_05503 | 617 | D | - | - | - | - | WD40 |
| contig00003.g2400 | FVEG\_05497 | 310 | O | - | ko:K03671 | ko00000,ko00001,ko03110 | - | Thioredoxin |
| contig00003.g2464 | FVEG\_05433 | 285 | - | - | - | - | - | - |
| contig00003.g2496 | FVEG\_05394 | 224 | - | - | - | - | - | - |
| contig00003.g2539 | FVEG\_05347 | 1200 | GO | - | - | - | - | WSC |
| contig00003.g2666 | FVEG\_09387 | 329 | S | - | - | - | - | - |
| contig00004.g2864 | FVEG\_15153 | 314 | - | - | - | - | - | - |
| contig00004.g2910 | FVEG\_02982 | 374 | S | - | - | - | - | - |
| contig00004.g2931 | FVEG\_03005 | 281 | S | - | - | - | - | Cerato-platanin |
| contig00004.g2971 | FVEG\_03046 | 483 | S | - | - | - | - | DUF3455 |
| contig00004.g2999 | FVEG\_03072 | 1264 | O | 3.4.14.9 | ko:K01279 | ko00000,ko00001,ko01000,ko01002,ko03110,ko04147 | - | Peptidase\_S8,Pro-kuma\_activ |
| contig00004.g3017 | FVEG\_03090 | 1228 | - | - | - | - | - | - |
| contig00004.g3048 | FVEG\_03121 | 829 | O | - | ko:K14002 | ko00000,ko00001 | - | DnaJ,DnaJ\_C,DnaJ\_CXXCXGXG |
| contig00004.g3052 | FVEG\_03124 | 1208 | Q | - | - | - | - | Cu-oxidase,Cu-oxidase\_2,Cu-oxidase\_3 |
| contig00004.g3068 | FVEG\_03140 | 1005 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | CBM\_1,Glyco\_hydro\_10 |
| contig00004.g3071 | FVEG\_03143 | 298 | - | - | - | - | - | - |
| contig00004.g3072 | FVEG\_03144 | 666 | C | 3.6.1.1 | ko:K01507 | ko00000,ko00001,ko01000 | - | Pyrophosphatase |
| contig00004.g3143 | FVEG\_03210 | 399 | - | - | - | - | - | - |
| contig00004.g3175 | FVEG\_03245 | 744 | O | - | - | - | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00004.g3189 | FVEG\_03260 | 780 | S | - | - | - | - | CBM\_1 |
| contig00004.g3204 | FVEG\_03274 | 1006 | S | - | - | - | - | MU117 |
| contig00004.g3205 | FVEG\_03275 | 697 | D | - | - | - | - | Pkinase |
| contig00004.g3207 | FVEG\_03277 | 704 | E | 3.5.1.1 | ko:K01424 | ko00000,ko00001,ko01000 | - | Asparaginase |
| contig00004.g3213 | FVEG\_15231 | 773 | O | 5.3.4.1 | ko:K09580 | ko00000,ko00001,ko01000,ko03110,ko04131,ko04147 | - | Thioredoxin,Thioredoxin\_6 |
| contig00004.g3214 | FVEG\_03284 | 613 | - | - | - | - | - | - |
| contig00004.g3223 | FVEG\_03292 | 421 | - | - | - | - | - | - |
| contig00004.g3239 | FVEG\_03305 | 45.1 | - | - | - | - | - | - |
| contig00004.g3242 | FVEG\_03307 | 332 | - | - | - | - | - | - |
| contig00004.g3265 | FVEG\_03324 | 466 | G | 3.2.1.139 | ko:K01235 | ko00000,ko01000 | - | Glyco\_hydro\_67C,Glyco\_hydro\_67M,Glyco\_hydro\_67N |
| contig00004.g3276 | FVEG\_03334 | 1033 | - | - | - | - | - | - |
| contig00004.g3290 | FVEG\_03346 | 261 | - | - | - | - | - | - |
| contig00004.g3297 | FVEG\_03351 | 358 | G | - | - | - | - | Cutinase |
| contig00004.g3308 | FVEG\_03362 | 974 | G | 3.2.1.171 | ko:K18580 | ko00000,ko01000 | GH28 | CBM\_1,Glyco\_hydro\_28 |
| contig00004.g3339 | FVEG\_03395 | 444 | G | 3.1.1.74 | ko:K08095 | ko00000,ko01000 | - | Cutinase |
| contig00004.g3342 | FVEG\_03398 | 868 | I | - | - | - | - | LIP |
| contig00004.g3360 | FVEG\_03416 | 761 | S | - | - | - | - | Alginate\_lyase |
| contig00004.g3383 | FVEG\_09332 | 692 | - | - | - | - | - | - |
| contig00004.g3397 | FVEG\_09348 | 264 | S | - | - | - | - | PAN\_1,PAN\_4 |
| contig00004.g3399 | FVEG\_09350 | 504 | - | - | - | - | - | PAN\_4 |
| contig00004.g3410 | FVEG\_09361 | 646 | Q | - | - | - | - | Esterase\_phd |
| contig00004.g3419 | FVEG\_09370 | 904 | G | - | - | - | - | Glyco\_hydro\_64 |
| contig00004.g3427 | FVEG\_09375 | 520 | O | - | - | - | - | Trypsin |
| contig00004.g3455 | FVEG\_09405 | 575 | S | - | - | - | - | CBM\_1,Lipase\_GDSL,Lipase\_GDSL\_2 |
| contig00004.g3456 | FVEG\_09406 | 315 | S | - | - | - | - | - |
| contig00004.g3460 | FVEG\_09409 | 94 | - | - | - | - | - | - |
| contig00004.g3468 | FVEG\_16579 | 786 | - | - | - | - | - | - |
| contig00004.g3469 | FVEG\_09416 | 1152 | S | - | - | - | - | MU117 |
| contig00004.g3482 | FVEG\_16584 | 153 | - | - | - | - | - | - |
| contig00004.g3492 | FVEG\_09438 | 230 | - | - | - | - | - | - |
| contig00004.g3495 | FVEG\_09440 | 689 | S | - | - | - | - | - |
| contig00004.g3498 | FVEG\_09443 | 1293 | O | - | - | - | - | Pectate\_lyase\_3 |
| contig00004.g3510 | FVEG\_12952 | 706 | G | 3.2.1.55 | ko:K20844 | ko00000,ko00001,ko01000 | CBM42,GH54 | AbfB,ArabFuran-catal |
| contig00005.g3516 | FVEG\_03871 | 246 | A | - | - | - | - | DEAD,Helicase\_C,OrsD |
| contig00005.g3523 | FVEG\_09955 | 106 | S | - | - | - | - | CAP |
| contig00005.g3526 | FVEG\_16697 | 656 | K | - | - | - | - | Fungal\_trans,Zn\_clus |
| contig00005.g3532 | FVEG\_09947 | 919 | G | 3.1.1.73 | ko:K09252 | ko00000,ko01000 | - | Tannase |
| contig00005.g3535 | FVEG\_09943 | 389 | - | - | - | - | - | - |
| contig00005.g3543 | FVEG\_09935 | 105 | - | - | - | - | - | - |
| contig00005.g3562 | FVEG\_09915 | 70.1 | - | - | - | - | - | PAN\_1,PAN\_4 |
| contig00005.g3564 | FVEG\_09913 | 955 | - | - | - | - | - | - |
| contig00005.g3612 | FVEG\_09861 | 1536 | G | 3.2.1.37 | ko:K15920 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00005.g3619 | FVEG\_09857 | 3060 | S | - | - | - | - | Lipase\_GDSL\_2,fn3 |
| contig00005.g3634 | FVEG\_09844 | 106 | - | - | - | - | - | - |
| contig00005.g3635 | FVEG\_09843 | 286 | - | - | - | - | - | - |
| contig00005.g3640 | FVEG\_16679 | 641 | S | - | - | - | - | - |
| contig00005.g3652 | FVEG\_09828 | 254 | S | - | - | - | - | CVNH |
| contig00005.g3657 | FVEG\_09826 | 665 | S | - | - | - | - | DUF1996 |
| contig00005.g3659 | FVEG\_09824 | 745 | E | 1.4.3.1,1.4.3.3 | ko:K00272,ko:K00273 | ko00000,ko00001,ko01000 | - | DAO |
| contig00005.g3662 | FVEG\_09821 | 372 | O | 5.3.4.1 | ko:K09580 | ko00000,ko00001,ko01000,ko03110,ko04131,ko04147 | - | Thioredoxin,Thioredoxin\_6 |
| contig00005.g3700 | FVEG\_08301 | 634 | O | - | - | - | - | Glyco\_hydro\_16 |
| contig00005.g3707 | FVEG\_08305 | 590 | E | 1.14.11.2 | ko:K00472 | ko00000,ko00001,ko01000 | - | 2OG-FeII\_Oxy\_3 |
| contig00005.g3709 | FVEG\_08309 | 521 | S | - | - | - | - | MFS\_1 |
| contig00005.g3722 | FVEG\_00094 | 131 | S | - | - | - | - | Candida\_ALS |
| contig00005.g3738 | FVEG\_08331 | 430 | S | - | - | - | - | DUF3129 |
| contig00005.g3754 | FVEG\_08344 | 922 | G | - | - | - | - | CBM\_1,CBM\_6,Glyco\_hydro\_43 |
| contig00005.g3755 | FVEG\_08345 | 1052 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00005.g3757 | FVEG\_08347 | 168 | - | - | - | - | - | - |
| contig00005.g3758 | FVEG\_08348 | 302 | - | - | - | - | - | - |
| contig00005.g3759 | FVEG\_08349 | 58.2 | - | - | - | - | - | - |
| contig00005.g3766 | FVEG\_08355 | 1600 | S | - | - | - | - | Bac\_rhamnosid6H,Bac\_rhamnosid\_C |
| contig00005.g3779 | FVEG\_16301 | 271 | C | - | - | - | - | ADH\_N,ADH\_zinc\_N |
| contig00005.g3786 | FVEG\_08373 | 498 | S | - | - | - | - | Peptidase\_A4 |
| contig00005.g3803 | FVEG\_08386 | 277 | - | - | - | - | - | - |
| contig00005.g3810 | FVEG\_08392 | 301 | - | - | - | - | - | - |
| contig00005.g3815 | FVEG\_08397 | 456 | - | - | - | - | - | - |
| contig00005.g3821 | FVEG\_08403 | 809 | O | - | - | - | - | Asp |
| contig00005.g3832 | FVEG\_08413 | 966 | S | - | - | - | - | Glyco\_hydro\_39 |
| contig00005.g3840 | FVEG\_08421 | 660 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00005.g3841 | FVEG\_08422 | 1308 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00005.g3848 | FVEG\_08430 | 986 | Q | - | - | - | - | p450 |
| contig00005.g3853 | FVEG\_08435 | 947 | I | - | - | - | - | - |
| contig00005.g3872 | FVEG\_08451 | 743 | G | 3.2.1.15,3.2.1.67 | ko:K01184,ko:K01213 | ko00000,ko00001,ko00002,ko01000 | - | Glyco\_hydro\_28 |
| contig00005.g3879 | FVEG\_08459 | 248 | - | - | - | - | - | - |
| contig00005.g3881 | FVEG\_08461 | 1157 | G | - | - | - | - | COesterase |
| contig00005.g3890 | FVEG\_08470 | 878 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Glyco\_hydro\_18 |
| contig00005.g3933 | FVEG\_08511 | 1315 | C | 1.1.5.3 | ko:K00111 | ko00000,ko00001,ko01000 | - | DAO,DAO\_C,EF-hand\_7 |
| contig00005.g3939 | FVEG\_08518 | 1120 | G | - | - | - | - | COesterase |
| contig00005.g3950 | FVEG\_16349 | 1779 | - | - | - | - | - | - |
| contig00005.g3967 | FVEG\_08546 | 506 | S | - | - | - | - | Fungal\_trans\_2,Zn\_clus |
| contig00005.g3977 | FVEG\_08555 | 1373 | O | 1.1.3.9 | ko:K04618 | ko00000,ko00001,ko01000 | - | DUF1929,F5\_F8\_type\_C,Kelch\_1,Kelch\_4,Kelch\_6 |
| contig00005.g3980 | FVEG\_08558 | 443 | - | - | - | - | - | - |
| contig00005.g4007 | FVEG\_08586 | 823 | - | - | - | - | - | - |
| contig00005.g4020 | FVEG\_08596 | 495 | S | - | - | - | - | TNT |
| contig00005.g4030 | FVEG\_08605 | 1206 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00005.g4033 | FVEG\_16373 | 1485 | S | - | - | - | - | WSC |
| contig00005.g4050 | FVEG\_16379 | 488 | - | - | - | - | - | - |
| contig00005.g4066 | FVEG\_08638 | 291 | - | - | - | - | - | - |
| contig00005.g4079 | FVEG\_08650 | 1259 | G | - | - | - | - | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00005.g4087 | FVEG\_08658 | 753 | S | - | ko:K21830 | ko00000 | - | - |
| contig00005.g4088 | FVEG\_08659 | 2079 | G | 3.2.1.23 | ko:K01190 | ko00000,ko00001,ko01000 | - | BetaGal\_dom2,BetaGal\_dom3,BetaGal\_dom4\_5,Glyco\_hydro\_35 |
| contig00005.g4091 | FVEG\_16393 | 276 | - | - | - | - | - | - |
| contig00005.g4098 | FVEG\_16396 | 1322 | G | - | - | - | - | Glyco\_hydro\_2,Glyco\_hydro\_2\_C,Glyco\_hydro\_2\_N |
| contig00005.g4110 | FVEG\_08679 | 783 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00005.g4111 | FVEG\_16398 | 282 | S | - | - | - | - | - |
| contig00005.g4117 | FVEG\_08686 | 397 | S | - | ko:K13449 | ko00000,ko00001 | - | CAP |
| contig00005.g4119 | FVEG\_08688 | 182 | - | - | - | - | - | - |
| contig00005.g4121 | FVEG\_08690 | 1025 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00005.g4124 | FVEG\_08694 | 1328 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00005.g4132 | FVEG\_08702 | 1527 | E | 1.1.99.18 | ko:K19069 | ko00000,ko01000 | - | CBM\_1,CDH-cyt,GMC\_oxred\_C,GMC\_oxred\_N |
| contig00005.g4137 | FVEG\_08707 | 1171 | E | - | - | - | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00005.g4152 | FVEG\_08723 | 693 | S | - | - | - | - | Glyco\_hydro\_16 |
| contig00005.g4162 | FVEG\_16409 | 1118 | C | - | - | - | - | BBE,FAD\_binding\_4,NTP\_transf\_9 |
| contig00005.g4167 | FVEG\_08734 | 506 | E | - | - | - | - | Pectate\_lyase |
| contig00005.g4178 | FVEG\_08746 | 255 | - | - | - | - | - | - |
| contig00005.g4180 | FVEG\_08748 | 1030 | - | - | - | - | - | - |
| contig00005.g4191 | FVEG\_08757 | 919 | S | - | - | - | - | Peroxidase\_2 |
| contig00005.g4193 | FVEG\_08758 | 353 | - | - | - | - | - | - |
| contig00005.g4217 | FVEG\_08780 | 843 | O | - | - | - | - | Peptidase\_M14 |
| contig00005.g4220 | FVEG\_08782 | 460 | S | - | - | - | - | TNT |
| contig00005.g4221 | FVEG\_08783 | 501 | G | 1.14.99.54 | ko:K19356 | ko00000,ko01000 | AA9,CBM1 | Glyco\_hydro\_61 |
| contig00005.g4223 | FVEG\_08785 | 1150 | G | - | - | - | - | COesterase,TB2\_DP1\_HVA22 |
| contig00005.g4238 | FVEG\_16443 | 679 | - | - | - | - | - | - |
| contig00005.g4240 | FVEG\_08802 | 394 | - | - | - | - | - | - |
| contig00005.g4246 | FVEG\_08808 | 390 | - | - | - | - | - | - |
| contig00006.g4313 | FVEG\_02506 | 600 | - | - | - | - | - | - |
| contig00006.g4411 | FVEG\_02407 | 474 | - | - | - | - | - | - |
| contig00006.g4413 | FVEG\_02406 | 907 | S | - | - | - | - | Abhydrolase\_6,LIP |
| contig00006.g4415 | FVEG\_02404 | 523 | Q | - | - | - | - | DLH |
| contig00006.g4416 | FVEG\_02403 | 1007 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00006.g4514 | FVEG\_02309 | 362 | - | - | - | - | - | - |
| contig00006.g4633 | FVEG\_14997 | 1497 | - | - | - | - | - | - |
| contig00006.g4642 | FVEG\_02167 | 627 | S | - | - | - | - | S1-P1\_nuclease |
| contig00006.g4643 | FVEG\_02166 | 488 | O | - | - | - | - | - |
| contig00006.g4676 | FVEG\_02133 | 808 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00006.g4712 | FVEG\_02095 | 958 | E | 1.5.3.1,1.5.3.7 | ko:K00306 | ko00000,ko00001,ko01000 | - | DAO |
| contig00007.g4778 | FVEG\_15302 | 654 | Q | 1.1.1.300 | ko:K11153 | ko00000,ko00001,ko01000 | - | adh\_short |
| contig00007.g4780 | FVEG\_15303 | 332 | - | - | - | - | - | - |
| contig00007.g4793 | FVEG\_03639 | 514 | S | - | - | - | - | LicD |
| contig00007.g4796 | FVEG\_03642 | 1211 | G | - | - | - | - | Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00007.g4802 | FVEG\_03648 | 1056 | E | - | - | - | - | Peptidase\_C69 |
| contig00007.g4806 | FVEG\_03654 | 226 | S | - | - | - | - | - |
| contig00007.g4809 | FVEG\_03657 | 1105 | E | 2.3.2.2,3.4.19.13 | ko:K00681 | ko00000,ko00001,ko01000,ko01002 | - | G\_glu\_transpept |
| contig00007.g4816 | FVEG\_03664 | 700 | S | 4.4.1.28 | ko:K20285,ko:K22207 | ko00000,ko00001,ko01000,ko04131 | - | BTB,Kelch\_1,Kelch\_3,Kelch\_4,Kelch\_5 |
| contig00007.g4820 | FVEG\_03669 | 352 | - | - | - | - | - | - |
| contig00007.g4826 | FVEG\_03675 | 1142 | G | - | - | - | - | COesterase,TB2\_DP1\_HVA22 |
| contig00007.g4835 | FVEG\_03684 | 520 | O | - | - | - | - | Peptidase\_M43 |
| contig00007.g4847 | FVEG\_03694 | 1234 | E | - | - | - | - | Amino\_oxidase |
| contig00007.g4861 | FVEG\_03708 | 277 | S | - | - | - | - | MU117 |
| contig00007.g4879 | FVEG\_03727 | 590 | I | - | - | - | - | Lipase\_GDSL,Lipase\_GDSL\_2 |
| contig00007.g4890 | FVEG\_03738 | 559 | S | - | - | - | - | DUF3129 |
| contig00007.g4906 | FVEG\_03751 | 540 | - | - | - | - | - | - |
| contig00007.g4977 | FVEG\_15341 | 234 | - | - | - | - | - | - |
| contig00007.g5053 | FVEG\_15359 | 117 | KL | - | - | - | - | Helicase\_C,SNF2\_N |
| contig00007.g5062 | FVEG\_03905 | 810 | G | - | - | - | - | - |
| contig00007.g5063 | FVEG\_03906 | 509 | G | 3.2.1.181 | ko:K20832 | ko00000,ko01000 | GH16 | CBM\_1,Glyco\_hydro\_16 |
| contig00007.g5085 | FVEG\_03930 | 823 | O | - | - | - | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00007.g5113 | FVEG\_03960 | 798 | O | 2.3.2.5 | ko:K00683 | ko00000,ko01000 | - | Peptidase\_M28 |
| contig00007.g5124 | FVEG\_03971 | 565 | - | - | - | - | - | - |
| contig00007.g5142 | FVEG\_03990 | 4977 | S | - | - | - | - | - |
| contig00007.g5149 | FVEG\_03997 | 1358 | O | 3.2.1.58 | ko:K01210 | ko00000,ko00001,ko01000 | - | Pectate\_lyase\_3 |
| contig00007.g5172 | FVEG\_04019 | 1273 | O | - | ko:K09490 | ko00000,ko00001,ko03110,ko04131,ko04147 | - | HSP70 |
| contig00007.g5175 | FVEG\_04022 | 1179 | O | - | - | - | - | Exo\_endo\_phos |
| contig00007.g5222 | FVEG\_04071 | 1161 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00007.g5249 | FVEG\_04097 | 625 | S | - | - | - | - | CAP |
| contig00007.g5273 | FVEG\_04124 | 348 | S | - | - | - | - | - |
| contig00007.g5289 | FVEG\_04141 | 345 | S | - | - | - | - | E1\_DerP2\_DerF2 |
| contig00008.g5322 | FVEG\_09321 | 410 | - | - | - | - | - | - |
| contig00008.g5356 | FVEG\_09287 | 155 | S | - | ko:K18188 | ko00000,ko03029 | - | PET117 |
| contig00008.g5358 | FVEG\_09285 | 672 | O | - | - | - | - | CBM\_1,Glyco\_hydro\_45 |
| contig00008.g5359 | FVEG\_09284 | 597 | O | - | - | - | - | Glyco\_hydro\_16 |
| contig00008.g5375 | FVEG\_16549 | 1593 | - | - | - | - | - | - |
| contig00008.g5408 | FVEG\_09233 | 586 | S | - | - | - | - | Abhydrolase\_1 |
| contig00008.g5488 | FVEG\_09149 | 927 | Q | 1.11.1.13 | ko:K20205 | ko00000,ko01000 | - | peroxidase |
| contig00008.g5496 | FVEG\_09142 | 262 | - | - | - | - | - | - |
| contig00008.g5519 | FVEG\_09116 | 527 | G | - | - | - | - | Glyco\_hydro\_61 |
| contig00008.g5556 | FVEG\_09073 | 1182 | O | 3.4.14.9 | ko:K01279 | ko00000,ko00001,ko01000,ko01002,ko03110,ko04147 | - | Peptidase\_S8,Pro-kuma\_activ |
| contig00008.g5577 | FVEG\_16512 | 813 | - | - | - | - | - | - |
| contig00008.g5596 | FVEG\_09036 | 300 | - | - | - | - | - | - |
| contig00008.g5597 | FVEG\_09035 | 588 | A | 3.1.27.1 | ko:K01166 | ko00000,ko01000,ko03016 | - | Ribonuclease\_T2 |
| contig00008.g5598 | FVEG\_09034 | 1082 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00008.g5624 | FVEG\_09010 | 444 | S | - | - | - | - | Cupin\_1 |
| contig00008.g5625 | FVEG\_09009 | 966 | S | - | - | - | - | Abhydrolase\_6,Hydrolase\_4,LIP |
| contig00008.g5656 | FVEG\_08978 | 779 | G | - | - | - | - | Lactonase |
| contig00008.g5736 | FVEG\_08899 | 1018 | S | - | - | - | - | Ish1 |
| contig00008.g5739 | FVEG\_08896 | 240 | - | - | - | - | - | - |
| contig00008.g5740 | FVEG\_08895 | 380 | - | - | - | - | - | - |
| contig00008.g5743 | FVEG\_08891 | 1398 | O | 1.1.3.9 | ko:K04618 | ko00000,ko00001,ko01000 | - | DUF1929,F5\_F8\_type\_C,Kelch\_1,Kelch\_4,Kelch\_6 |
| contig00008.g5763 | FVEG\_08872 | 449 | - | - | - | - | - | - |
| contig00008.g5764 | FVEG\_08871 | 149 | S | - | - | - | - | CFEM |
| contig00008.g5766 | FVEG\_08870 | 1056 | G | 3.1.1.8 | ko:K01050 | ko00000,ko01000 | - | COesterase |
| contig00008.g5770 | FVEG\_08867 | 1730 | G | - | - | - | - | Glyco\_hydro\_71 |
| contig00008.g5780 | FVEG\_08858 | 890 | S | - | - | - | - | Alginate\_lyase |
| contig00008.g5785 | FVEG\_08854 | 793 | O | - | - | - | - | - |
| contig00008.g5791 | FVEG\_16455 | 814 | S | - | - | - | - | MU117 |
| contig00008.g5799 | FVEG\_08840 | 68.6 | P | - | - | - | - | Sugar\_tr |
| contig00008.g5804 | FVEG\_08836 | 1108 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00008.g5807 | FVEG\_08833 | 555 | O | - | - | - | - | CBM\_1,Lipase\_GDSL,Lipase\_GDSL\_2 |
| contig00008.g5812 | FVEG\_08828 | 468 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | CBM\_1,Glyco\_hydro\_11 |
| contig00008.g5816 | FVEG\_08825 | 890 | G | 3.2.1.91 | ko:K19668 | ko00000,ko00001,ko01000 | GH6 | CBM\_1,Glyco\_hydro\_6 |
| contig00008.g5817 | FVEG\_08824 | 1718 | G | 3.2.1.139 | ko:K01235 | ko00000,ko01000 | - | Glyco\_hydro\_67C,Glyco\_hydro\_67M,Glyco\_hydro\_67N |
| contig00008.g5820 | FVEG\_08821 | 547 | O | - | - | - | - | CBM\_1,Glyco\_hydro\_61 |
| contig00009.g5850 | FVEG\_09988 | 709 | - | - | - | - | - | - |
| contig00009.g5860 | FVEG\_09998 | 73.2 | - | - | - | - | - | - |
| contig00009.g5862 | FVEG\_10000 | 102 | - | - | - | - | - | - |
| contig00009.g5901 | FVEG\_10031 | 292 | - | - | - | - | - | - |
| contig00009.g5902 | FVEG\_10032 | 1115 | G | 3.2.1.113 | ko:K01230 | ko00000,ko00001,ko00002,ko01000,ko04131 | GH47 | Glyco\_hydro\_47 |
| contig00009.g5926 | FVEG\_10058 | 305 | - | - | - | - | - | - |
| contig00009.g5928 | FVEG\_10059 | 66.6 | - | - | - | - | - | - |
| contig00009.g5937 | FVEG\_10071 | 355 | S | - | - | - | - | Phospholip\_A2\_3 |
| contig00009.g5938 | FVEG\_10072 | 444 | S | - | - | - | - | PBP |
| contig00009.g5942 | FVEG\_10077 | 937 | S | - | - | - | - | Ferritin\_2 |
| contig00009.g5948 | FVEG\_10083 | 1424 | G | 3.2.1.7,3.2.1.80 | ko:K03332,ko:K22245 | ko00000,ko00001,ko01000 | - | Glyco\_hydro\_32C,Glyco\_hydro\_32N |
| contig00009.g5958 | FVEG\_10092 | 660 | H | - | - | - | - | Abhydrolase\_1 |
| contig00009.g5962 | FVEG\_16722 | 1974 | G | - | - | - | - | BetaGal\_dom2,BetaGal\_dom3,BetaGal\_dom4\_5,Glyco\_hydro\_35 |
| contig00009.g5963 | FVEG\_10098 | 837 | O | - | - | - | - | Glyco\_hydro\_32N,Glyco\_hydro\_43,Laminin\_G\_3 |
| contig00009.g5965 | FVEG\_10100 | 416 | - | - | - | - | - | - |
| contig00009.g5966 | FVEG\_10101 | 626 | G | 4.2.2.2 | ko:K01728 | ko00000,ko00001,ko01000 | - | Pec\_lyase\_C |
| contig00009.g5967 | FVEG\_10102 | 550 | E | - | - | - | - | Pectate\_lyase |
| contig00009.g5968 | FVEG\_10103 | 489 | Q | - | - | - | - | Isochorismatase |
| contig00009.g5976 | FVEG\_10111 | 1177 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00009.g5980 | FVEG\_10115 | 1160 | E | 3.4.17.4 | ko:K01293 | ko00000,ko01000,ko01002 | - | M20\_dimer,Peptidase\_M20,Peptidase\_M28 |
| contig00009.g5981 | FVEG\_10116 | 651 | O | - | - | - | - | CBM\_1,Glyco\_hydro\_61 |
| contig00009.g5982 | FVEG\_10117 | 259 | T | - | - | - | - | - |
| contig00009.g5985 | FVEG\_10119 | 577 | S | - | - | - | - | HRXXH |
| contig00009.g6013 | FVEG\_10146 | 1025 | G | - | - | - | - | Exo\_endo\_phos |
| contig00009.g6017 | FVEG\_10149 | 914 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00009.g6064 | FVEG\_10189 | 1168 | J | 3.5.1.4 | ko:K01426 | ko00000,ko00001,ko01000 | - | Amidase |
| contig00009.g6072 | FVEG\_16752 | 613 | - | - | - | - | - | - |
| contig00009.g6111 | FVEG\_10241 | 452 | G | - | ko:K20628 | ko00000 | - | DPBB\_1,Pollen\_allerg\_1 |
| contig00009.g6154 | FVEG\_10284 | 981 | O | 3.4.16.6 | ko:K01288 | ko00000,ko01000,ko01002 | - | Peptidase\_S10 |
| contig00009.g6203 | FVEG\_10333 | 889 | O | - | - | - | - | Chitin\_bind\_1,Polysacc\_deac\_1 |
| contig00009.g6234 | FVEG\_10364 | 565 | S | - | - | - | - | - |
| contig00009.g6278 | FVEG\_10404 | 376 | S | - | - | - | - | AltA1 |
| contig00009.g6306 | FVEG\_10428 | 491 | - | - | - | - | - | - |
| contig00009.g6323 | FVEG\_10446 | 1108 | S | - | ko:K09704 | ko00000 | - | Glyco\_hydro\_125 |
| contig00010.g6439 | FVEG\_07082 | 781 | G | 3.5.3.11 | ko:K01480 | ko00000,ko00001,ko00002,ko01000 | - | Arginase |
| contig00010.g6480 | FVEG\_07124 | 471 | - | - | - | - | - | - |
| contig00010.g6487 | FVEG\_16023 | 507 | S | - | - | - | - | Glyco\_hydro\_64 |
| contig00010.g6542 | FVEG\_02601 | 518 | - | - | - | - | - | - |
| contig00010.g6566 | FVEG\_02627 | 961 | S | - | - | - | - | CDT1\_C |
| contig00010.g6627 | FVEG\_02691 | 1140 | G | - | - | - | - | Amidohydro\_3 |
| contig00010.g6631 | FVEG\_02695 | 448 | S | - | ko:K17787 | ko00000,ko03029 | - | AIM5 |
| contig00011.g6783 | FVEG\_06522 | 1431 | S | 1.1.3.9 | ko:K04618 | ko00000,ko00001,ko01000 | - | DUF1929,Kelch\_1,Kelch\_6,PAN\_1 |
| contig00011.g6787 | FVEG\_06525 | 713 | O | - | - | - | - | Dioxygenase\_C |
| contig00011.g6800 | FVEG\_06538 | 178 | S | - | - | - | - | - |
| contig00011.g6802 | FVEG\_15883 | 196 | I | - | - | - | - | Glyco\_hydro\_12,Glycos\_transf\_2 |
| contig00011.g6809 | FVEG\_15886 | 630 | - | - | - | - | - | - |
| contig00011.g6842 | FVEG\_06580 | 1298 | J | - | - | - | - | Amidase |
| contig00011.g6846 | FVEG\_06584 | 997 | C | - | - | - | - | FAD\_binding\_4 |
| contig00011.g6888 | FVEG\_15904 | 908 | G | - | - | - | - | COesterase |
| contig00011.g6891 | FVEG\_06631 | 310 | S | - | - | - | - | - |
| contig00011.g6913 | FVEG\_15912 | 252 | O | - | - | - | - | - |
| contig00011.g6966 | FVEG\_06704 | 946 | OP | - | ko:K01302 | ko00000,ko01000,ko01002 | - | PA,Peptidase\_M28 |
| contig00011.g6977 | FVEG\_06715 | 219 | - | - | - | - | - | - |
| contig00011.g6989 | FVEG\_06728 | 1649 | G | 3.2.1.21 | ko:K05349 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00011.g7002 | FVEG\_06739 | 573 | S | - | - | - | - | Ferritin\_2 |
| contig00011.g7012 | FVEG\_06750 | 676 | IO | 3.1.2.22 | ko:K01074 | ko00000,ko00001,ko01000,ko01004 | - | Palm\_thioest |
| contig00011.g7037 | FVEG\_06777 | 856 | G | - | - | - | - | LysM |
| contig00011.g7039 | FVEG\_06779 | 3020 | G | - | - | - | - | Glyco\_hydro\_18,Hce2,LysM |
| contig00011.g7065 | FVEG\_06805 | 386 | - | - | - | - | - | - |
| contig00011.g7067 | FVEG\_06807 | 497 | S | - | - | - | - | Lipase\_GDSL\_2,MU117,Spherulin4,VCBS |
| contig00011.g7085 | FVEG\_06822 | 552 | O | 3.5.1.104 | ko:K22278 | ko00000,ko01000 | - | Chitin\_bind\_1,Polysacc\_deac\_1 |
| contig00011.g7096 | FVEG\_06833 | 1018 | E | - | - | - | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00011.g7120 | FVEG\_06859 | 1180 | Q | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00011.g7123 | FVEG\_06863 | 787 | G | 2.4.1.144 | ko:K00737 | ko00000,ko00001,ko00002,ko01000,ko01003 | GT17 | Glyco\_transf\_17 |
| contig00011.g7125 | FVEG\_06865 | 1398 | G | 3.2.1.28 | ko:K01194 | ko00000,ko00001,ko00537,ko01000 | GH37 | Trehalase |
| contig00011.g7140 | FVEG\_15951 | 84 | - | - | - | - | - | - |
| contig00011.g7160 | FVEG\_06900 | 800 | G | 3.2.1.75 | ko:K22277 | ko00000,ko01000 | GH5 | Cellulase |
| contig00012.g7266 | FVEG\_06212 | 75.1 | - | - | - | - | - | - |
| contig00012.g7282 | FVEG\_06194 | 273 | - | - | - | - | - | - |
| contig00012.g7302 | FVEG\_06174 | 1001 | O | - | - | - | - | Glyco\_hydro\_61 |
| contig00012.g7400 | FVEG\_06068 | 471 | S | - | - | - | - | Cupin\_1 |
| contig00012.g7425 | FVEG\_06039 | 1466 | T | 3.1.3.8 | ko:K01083 | ko00000,ko00001,ko01000 | - | EGF\_2,Phytase |
| contig00012.g7426 | FVEG\_06038 | 491 | S | - | - | - | - | Hyphal\_reg\_CWP |
| contig00012.g7434 | FVEG\_06027 | 837 | E | 3.5.1.16 | ko:K01438 | ko00000,ko00001,ko00002,ko01000 | - | M20\_dimer,Peptidase\_M20 |
| contig00012.g7514 | FVEG\_05948 | 437 | - | 3.2.1.4 | ko:K01179,ko:K10352 | ko00000,ko00001,ko01000,ko04147,ko04812 | GH5,GH9 | Cellulase,GLEYA,Ricin\_B\_lectin |
| contig00012.g7522 | FVEG\_05942 | 726 | G | - | - | - | - | LysM |
| contig00012.g7564 | FVEG\_05900 | 507 | - | - | - | - | - | - |
| contig00012.g7565 | FVEG\_05899 | 837 | G | 4.1.1.2 | ko:K01569 | ko00000,ko00001,ko01000 | - | Cupin\_1 |
| contig00012.g7566 | FVEG\_05898 | 947 | S | - | ko:K17285 | ko00000,ko04147 | - | SBP56 |
| contig00012.g7590 | FVEG\_05871 | 565 | O | 3.2.1.73 | ko:K01216 | ko00000,ko01000 | - | Glyco\_hydro\_16 |
| contig00012.g7595 | FVEG\_05867 | 650 | - | - | - | - | - | - |
| contig00012.g7612 | FVEG\_05849 | 535 | S | - | - | - | - | Candida\_ALS |
| contig00012.g7620 | FVEG\_05840 | 370 | - | - | - | - | - | - |
| contig00012.g7638 | FVEG\_05821 | 350 | - | - | - | - | - | - |
| contig00012.g7644 | FVEG\_05815 | 453 | - | - | - | - | - | - |
| contig00012.g7654 | FVEG\_05803 | 1641 | GO | - | - | - | - | DUF1996,WSC |
| contig00012.g7656 | FVEG\_05801 | 901 | G | 3.2.1.67 | ko:K01213 | ko00000,ko00001,ko00002,ko01000 | - | Glyco\_hydro\_28 |
| contig00013.g7718 | FVEG\_11317 | 595 | O | - | - | - | - | Asp |
| contig00013.g7753 | FVEG\_11284 | 720 | S | - | - | - | - | Ferritin\_2 |
| contig00013.g7763 | FVEG\_11273 | 572 | S | - | - | - | - | - |
| contig00013.g7801 | FVEG\_11233 | 634 | G | 4.2.2.2 | ko:K01728 | ko00000,ko00001,ko01000 | - | CBM\_1,Pec\_lyase\_C |
| contig00013.g7802 | FVEG\_11232 | 1555 | S | - | - | - | - | PAN\_4 |
| contig00013.g7806 | FVEG\_11228 | 3992 | G | 3.1.1.11 | ko:K01051 | ko00000,ko00001,ko00002,ko01000 | - | Pectinesterase |
| contig00013.g7811 | FVEG\_11221 | 1063 | E | - | - | - | - | peroxidase |
| contig00013.g7835 | FVEG\_11198 | 1003 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00013.g7836 | FVEG\_11197 | 234 | S | - | - | - | - | CAP,DPBB\_1 |
| contig00013.g7854 | FVEG\_11173 | 451 | - | - | - | - | - | Cerato-platanin |
| contig00013.g7874 | FVEG\_11151 | 280 | - | - | - | - | - | - |
| contig00013.g7890 | FVEG\_11137 | 685 | Q | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00013.g7900 | FVEG\_11127 | 1089 | O | 3.4.16.6 | ko:K01288 | ko00000,ko01000,ko01002 | - | Peptidase\_S10 |
| contig00013.g7902 | FVEG\_11125 | 705 | I | - | - | - | - | PAF-AH\_p\_II |
| contig00013.g7914 | FVEG\_11115 | 332 | - | - | - | - | - | - |
| contig00013.g7924 | FVEG\_11103 | 266 | - | - | - | - | - | - |
| contig00013.g7934 | FVEG\_11094 | 736 | G | - | - | - | - | His\_Phos\_1 |
| contig00013.g7939 | FVEG\_11087 | 598 | O | - | - | - | - | Glyco\_hydro\_cc |
| contig00013.g7942 | FVEG\_11083 | 909 | O | - | - | - | - | Asp |
| contig00013.g7965 | FVEG\_11065 | 300 | - | - | - | - | - | - |
| contig00013.g7969 | FVEG\_11061 | 598 | P | 4.2.1.1 | ko:K01674 | ko00000,ko00001,ko01000 | - | Carb\_anhydrase |
| contig00013.g7976 | FVEG\_11053 | 259 | - | - | - | - | - | - |
| contig00013.g8003 | FVEG\_11031 | 861 | O | - | - | - | - | Abhydrolase\_6,DUF1100 |
| contig00013.g8010 | FVEG\_16950 | 294 | - | - | - | - | - | - |
| contig00013.g8017 | FVEG\_11018a | 265 | - | - | - | - | - | - |
| contig00013.g8024 | FVEG\_11011 | 573 | S | - | - | - | - | GLEYA,PAN\_1 |
| contig00013.g8054 | FVEG\_10979 | 947 | S | 1.21.99.1 | ko:K15393 | ko00000,ko01000,ko01008 | - | Amino\_oxidase,FAD\_oxidored,NAD\_binding\_8 |
| contig00013.g8068 | FVEG\_10964 | 901 | S | - | - | - | - | ARID,NACHT,SesA |
| contig00014.g8085 | FVEG\_07357 | 1107 | O | - | ko:K08783 | ko00000,ko01000,ko01002 | - | Peptidase\_M14 |
| contig00014.g8108 | FVEG\_07382 | 522 | S | - | - | - | - | DUF2990,DUF3455 |
| contig00014.g8155 | FVEG\_07432 | 712 | O | - | - | - | - | Dioxygenase\_C |
| contig00014.g8164 | FVEG\_07441 | 828 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00014.g8170 | FVEG\_07448 | 1298 | G | - | - | - | - | Amidohydro\_3 |
| contig00014.g8199 | FVEG\_07478 | 1425 | S | - | - | - | - | Peptidase\_S41 |
| contig00014.g8210 | FVEG\_07490 | 683 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00014.g8216 | FVEG\_07496 | 1137 | - | - | - | - | - | - |
| contig00014.g8231 | FVEG\_07510 | 493 | P | 1.15.1.1 | ko:K04564 | ko00000,ko00001,ko01000 | - | Sod\_Fe\_C,Sod\_Fe\_N |
| contig00014.g8232 | FVEG\_07511 | 812 | - | - | - | - | - | - |
| contig00014.g8240 | FVEG\_07518 | 862 | G | 3.2.1.22 | ko:K07407 | ko00000,ko00001,ko01000 | - | Melibiase\_2 |
| contig00014.g8246 | FVEG\_16133 | 461 | - | - | - | - | - | - |
| contig00014.g8293 | FVEG\_07571 | 1019 | S | - | - | - | - | Abhydrolase\_1,Abhydrolase\_4 |
| contig00014.g8294 | FVEG\_07572 | 299 | - | - | - | - | - | - |
| contig00014.g8312 | FVEG\_07588 | 417 | G | - | - | - | - | LysM |
| contig00014.g8313 | FVEG\_16144 | 57.8 | G | - | - | - | - | DUF1080,LysM |
| contig00014.g8328 | FVEG\_07607 | 903 | O | - | - | - | - | Peptidase\_M14 |
| contig00014.g8377 | FVEG\_07653 | 711 | O | 3.4.11.10 | ko:K05994 | ko00000,ko01000,ko01002 | - | Peptidase\_M28 |
| contig00014.g8381 | FVEG\_07656 | 565 | S | - | - | - | - | Flocculin,GLEYA |
| contig00014.g8382 | FVEG\_07657 | 681 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00014.g8389 | FVEG\_07663 | 204 | S | - | - | - | - | NPP1 |
| contig00014.g8390 | FVEG\_07664 | 365 | - | - | - | - | - | - |
| contig00014.g8392 | FVEG\_07665 | 234 | - | - | - | - | - | PAN\_1,PAN\_4 |
| contig00014.g8405 | FVEG\_07677 | 1202 | O | 3.4.14.9 | ko:K01279 | ko00000,ko00001,ko01000,ko01002,ko03110,ko04147 | - | Peptidase\_S8,Pro-kuma\_activ |
| contig00014.g8406 | FVEG\_07678 | 644 | S | - | - | - | - | Lipase\_GDSL |
| contig00014.g8412 | FVEG\_16167 | 1720 | - | - | - | - | - | - |
| contig00014.g8415 | FVEG\_07688 | 836 | G | 5.1.3.3 | ko:K01785 | ko00000,ko00001,ko00002,ko01000 | - | Aldose\_epim |
| contig00014.g8417 | FVEG\_07690 | 462 | S | - | - | - | - | Candida\_ALS,GLEYA |
| contig00014.g8423 | FVEG\_07695 | 200 | S | - | - | - | - | Hydrophobin\_2 |
| contig00014.g8431 | FVEG\_07702 | 901 | O | - | - | - | - | Glyco\_hydro\_39 |
| contig00014.g8443 | FVEG\_07712 | 973 | O | 3.4.16.6 | ko:K01288 | ko00000,ko01000,ko01002 | - | Peptidase\_S10 |
| contig00014.g8447 | FVEG\_07716 | 1476 | G | 3.2.1.22 | ko:K07407 | ko00000,ko00001,ko01000 | - | Glyco\_hydro\_36C,Glyco\_hydro\_36N,Melibiase |
| contig00014.g8449 | FVEG\_07718 | 1130 | O | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00014.g8460 | FVEG\_07728 | 494 | - | - | - | - | - | CBM\_4\_9 |
| contig00014.g8462 | FVEG\_07730 | 699 | O | 3.1.1.72 | ko:K05972 | ko00000,ko01000 | - | CBM\_1,Esterase\_phd |
| contig00014.g8481 | FVEG\_07747 | 430 | V | - | - | - | - | - |
| contig00014.g8483 | FVEG\_07750 | 323 | - | - | - | - | - | - |
| contig00014.g8485 | FVEG\_07752 | 250 | - | - | - | - | - | - |
| contig00014.g8487 | FVEG\_07753 | 450 | G | - | - | - | - | Cellulase,RicinB\_lectin\_2,Ricin\_B\_lectin |
| contig00014.g8496 | FVEG\_07763 | 1816 | S | - | - | - | - | Clr5,MU117,TPR\_12 |
| contig00015.g8551 | FVEG\_11681 | 352 | - | - | - | - | - | - |
| contig00015.g8562 | FVEG\_07833 | 485 | - | - | - | - | - | - |
| contig00015.g8619 | FVEG\_07889 | 1315 | P | - | - | - | - | Alk\_phosphatase |
| contig00015.g8628 | FVEG\_16208 | 192 | - | - | - | - | - | - |
| contig00015.g8709 | FVEG\_07981 | 730 | O | 5.3.4.1 | ko:K09584 | ko00000,ko00001,ko01000,ko03110,ko04131 | - | ERp29,Thioredoxin |
| contig00016.g8870 | FVEG\_09484 | 316 | O | 5.2.1.8 | ko:K09569,ko:K09577 | ko00000,ko01000,ko03110 | - | FKBP\_C |
| contig00016.g8929 | FVEG\_09545 | 411 | S | - | - | - | - | EF-hand\_5,EF-hand\_6,EF-hand\_7 |
| contig00016.g8931 | FVEG\_09547 | 613 | - | - | - | - | - | - |
| contig00016.g8991 | FVEG\_09611 | 762 | C | 1.1.2.3 | ko:K00101 | ko00000,ko00001,ko01000 | - | FMN\_dh |
| contig00016.g9028 | FVEG\_09653 | 479 | G | 3.1.1.74 | ko:K08095 | ko00000,ko01000 | - | Cutinase |
| contig00016.g9069 | FVEG\_09694 | 1162 | G | - | - | - | - | COesterase |
| contig00016.g9076 | FVEG\_09702 | 743 | G | 4.2.2.10 | ko:K01732 | ko00000,ko01000 | - | Pec\_lyase\_C |
| contig00016.g9087 | FVEG\_09713 | 647 | O | - | - | - | - | LicD |
| contig00016.g9093 | FVEG\_09719 | 682 | G | 3.2.1.4 | ko:K01179 | ko00000,ko00001,ko01000 | GH5,GH9 | CBM\_1,Cellulase |
| contig00016.g9130 | FVEG\_09758 | 253 | - | - | - | - | - | - |
| contig00016.g9143 | FVEG\_09770 | 534 | - | - | - | - | - | - |
| contig00016.g9144 | FVEG\_09772 | 1274 | G | - | - | - | - | Glyco\_hydro\_1 |
| contig00016.g9151 | FVEG\_09778 | 409 | - | - | - | - | - | - |
| contig00016.g9160 | FVEG\_05913 | 209 | - | - | - | - | - | CVNH |
| contig00017.g9171 | FVEG\_17099 | 966 | T | - | - | - | - | COesterase |
| contig00017.g9186 | FVEG\_11796 | 996 | GO | - | - | - | - | DUF1996,WSC |
| contig00017.g9195 | FVEG\_11787 | 695 | G | 3.2.1.15,3.2.1.67 | ko:K01184,ko:K01213 | ko00000,ko00001,ko00002,ko01000 | - | Glyco\_hydro\_28 |
| contig00017.g9210 | FVEG\_11773 | 1180 | - | - | - | - | - | - |
| contig00017.g9211 | FVEG\_11772 | 1289 | E | 1.1.99.1 | ko:K00108 | ko00000,ko00001,ko00002,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00017.g9214 | FVEG\_11768 | 830 | I | - | - | - | - | Abhydrolase\_6,Hydrolase\_4 |
| contig00017.g9219 | FVEG\_11764 | 1626 | Q | 1.4.3.21 | ko:K00276 | ko00000,ko00001,ko01000 | - | Cu\_amine\_oxid,Cu\_amine\_oxidN2,DUF1965 |
| contig00017.g9234 | FVEG\_11749 | 1573 | G | 3.2.1.21 | ko:K05349 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00017.g9246 | FVEG\_11738 | 493 | - | - | - | - | - | - |
| contig00017.g9247 | FVEG\_11737 | 254 | - | - | - | - | - | - |
| contig00017.g9253 | FVEG\_11731 | 992 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00017.g9262 | FVEG\_17080 | 135 | - | - | - | - | - | - |
| contig00017.g9263 | FVEG\_11723 | 235 | - | - | - | - | - | - |
| contig00017.g9264 | FVEG\_11722 | 436 | - | - | - | - | - | - |
| contig00017.g9266 | FVEG\_11720 | 315 | - | - | - | - | - | - |
| contig00017.g9269 | FVEG\_11717 | 291 | G | - | - | - | - | Amidohydro\_1 |
| contig00017.g9272 | FVEG\_11714 | 1028 | Q | 1.5.3.14,1.5.3.16 | ko:K13366 | ko00000,ko00001,ko01000 | - | Amino\_oxidase |
| contig00017.g9286 | FVEG\_11700 | 621 | O | 3.1.1.72 | ko:K05972 | ko00000,ko01000 | - | CBM\_1,Esterase\_phd |
| contig00017.g9291 | FVEG\_11695 | 1571 | O | 3.4.14.5 | ko:K01278,ko:K01282 | ko00000,ko00001,ko01000,ko01002,ko04090,ko04147 | - | DPPIV\_N,Peptidase\_S9 |
| contig00017.g9300 | FVEG\_11689 | 759 | S | - | - | - | - | GLEYA |
| contig00017.g9324 | FVEG\_11667 | 441 | - | - | - | - | - | - |
| contig00017.g9325 | FVEG\_11666 | 640 | - | - | - | - | - | - |
| contig00017.g9326 | FVEG\_11665 | 402 | - | - | - | - | - | - |
| contig00017.g9370 | FVEG\_11609 | 203 | - | - | - | - | - | - |
| contig00017.g9380 | FVEG\_11600 | 500 | G | - | ko:K20628 | ko00000 | - | DPBB\_1,Pollen\_allerg\_1 |
| contig00017.g9486 | FVEG\_11492 | 811 | O | - | - | - | - | Asp |
| contig00017.g9521 | FVEG\_11455 | 225 | - | - | - | - | - | - |
| contig00017.g9523 | FVEG\_11453 | 789 | O | 3.4.23.25 | ko:K01381 | ko00000,ko00001,ko01000,ko01002 | - | Asp |
| contig00018.g9577 | FVEG\_12142 | 644 | G | 3.2.1.58 | ko:K01210 | ko00000,ko00001,ko01000 | - | Glyco\_hydro\_17 |
| contig00018.g9582 | FVEG\_12137 | 2893 | G | - | ko:K11718 | ko00000,ko00001,ko01000,ko01003 | GT24 | Glyco\_transf\_8,UDP-g\_GGTase |
| contig00018.g9590 | FVEG\_12127 | 2150 | - | - | ko:K19720 | ko00000,ko00001,ko00536 | - | - |
| contig00018.g9593 | FVEG\_12124 | 640 | G | - | - | - | - | Exo\_endo\_phos |
| contig00018.g9607 | FVEG\_12110 | 781 | S | 3.1.1.2,3.1.8.1 | ko:K01045 | ko00000,ko01000,ko04147 | - | Arylesterase |
| contig00018.g9611 | FVEG\_12107 | 459 | - | - | - | - | - | CBM9\_2 |
| contig00018.g9624 | FVEG\_12093 | 479 | O | 4.4.1.5 | ko:K01759 | ko00000,ko00001,ko01000 | - | Glyoxalase |
| contig00018.g9639 | FVEG\_12078 | 972 | - | - | - | - | - | - |
| contig00018.g9694 | FVEG\_12024 | 809 | G | 3.5.3.11 | ko:K01480 | ko00000,ko00001,ko00002,ko01000 | - | Arginase |
| contig00018.g9698 | FVER14953\_20274b | 262 | - | - | - | - | - | - |
| contig00018.g9705 | FVEG\_12015 | 763 | S | - | - | - | - | Abhydrolase\_6 |
| contig00018.g9711 | FVEG\_12008 | 699 | - | - | - | - | - | - |
| contig00018.g9717 | FVEG\_12001 | 358 | - | - | - | - | - | - |
| contig00018.g9731 | FVEG\_11988 | 769 | V | - | - | - | - | - |
| contig00018.g9767 | FVEG\_11952 | 2873 | S | - | - | - | - | Lipase\_GDSL\_2,MU117,Spherulin4,VCBS |
| contig00018.g9772 | FVEG\_11948 | 1233 | Q | 1.10.3.3 | ko:K00423 | ko00000,ko00001,ko01000 | - | Cu-oxidase,Cu-oxidase\_2,Cu-oxidase\_3 |
| contig00018.g9777 | FVEG\_11944 | 621 | O | - | - | - | - | Glyco\_hydro\_16 |
| contig00018.g9788 | FVEG\_11934 | 786 | O | - | - | - | - | Pyr\_redox\_2 |
| contig00018.g9790 | FVEG\_11933 | 1102 | G | 3.2.1.26 | ko:K01193 | ko00000,ko00001,ko01000 | GH32 | Glyco\_hydro\_32C,Glyco\_hydro\_32N |
| contig00018.g9806 | FVEG\_11917 | 760 | - | - | - | - | - | - |
| contig00018.g9812 | FVEG\_11911 | 404 | - | - | - | - | - | - |
| contig00018.g9819 | FVEG\_11904 | 491 | - | - | - | - | - | - |
| contig00018.g9822 | FVEG\_11902 | 1604 | - | - | - | - | - | - |
| contig00018.g9823 | FVEG\_11901 | 1135 | E | - | - | - | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00018.g9832 | FVEG\_11891 | 889 | S | - | - | - | - | Abhydrolase\_6 |
| contig00018.g9834 | FVEG\_11889 | 840 | G | - | - | - | - | Tannase |
| contig00018.g9842 | FVEG\_11882 | 798 | O | - | - | - | - | Asp |
| contig00018.g9849 | FVEG\_11874 | 973 | S | - | - | - | - | His\_Phos\_2 |
| contig00018.g9854 | FVEG\_11869 | 555 | - | - | - | - | - | CBM\_1,Lipase\_GDSL,Lipase\_GDSL\_2 |
| contig00018.g9856 | FVEG\_11867 | 691 | G | 3.2.1.4 | ko:K01179 | ko00000,ko00001,ko01000 | GH5,GH9 | CBM\_1,Cellulase |
| contig00018.g9871 | FVEG\_17120 | 326 | - | - | - | - | - | - |
| contig00018.g9874 | FVEG\_11851 | 539 | - | - | - | - | - | - |
| contig00018.g9878 | FVEG\_11849 | 773 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | CBM\_1,Glyco\_hydro\_10 |
| contig00018.g9903 | FVEG\_11827 | 252 | - | - | - | - | - | - |
| contig00018.g9906 | FVEG\_11824 | 759 | S | 4.1.1.52 | ko:K22213 | ko00000,ko01000 | - | Amidohydro\_2 |
| contig00018.g9920 | FVEG\_11810 | 153 | S | - | - | - | - | RALF |
| contig00019.g10004 | FVEG\_12435 | 946 | - | - | - | - | - | - |
| contig00019.g10005 | FVEG\_12434 | 485 | G | - | - | - | - | Pectate\_lyase |
| contig00019.g10014 | FVEG\_12423 | 902 | G | 3.2.1.78 | ko:K19355 | ko00000,ko00001,ko01000 | - | CBM\_1,Cellulase |
| contig00019.g10015 | FVEG\_12422 | 316 | - | - | - | - | - | - |
| contig00019.g10034 | FVEG\_12404 | 407 | E | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00019.g10037 | FVEG\_12400 | 984 | S | - | ko:K19851,ko:K22493 | ko00000,ko00001,ko00537 | - | Candida\_ALS,Candida\_ALS\_N,Flo11 |
| contig00019.g10038 | FVEG\_12399 | 780 | - | - | - | - | - | - |
| contig00019.g10040 | FVEG\_12397 | 234 | - | - | - | - | - | - |
| contig00019.g10041 | FVEG\_12396 | 223 | - | - | - | - | - | - |
| contig00019.g10051 | FVEG\_12387 | 512 | - | - | - | - | - | - |
| contig00019.g10058 | FVEG\_12381 | 920 | M | - | - | - | - | Asp |
| contig00019.g10066 | FVEG\_12372 | 1144 | E | - | - | - | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00019.g10072 | FVEG\_12368 | 1365 | E | 4.2.2.23 | ko:K18195 | ko00000,ko01000 | PL4 | CBM-like,CarboxypepD\_reg,fn3\_3 |
| contig00019.g10088 | FVEG\_12354 | 288 | - | - | - | - | - | - |
| contig00019.g10089 | FVEG\_12353 | 1062 | O | - | - | - | - | Peptidase\_M14 |
| contig00019.g10097 | FVEG\_12346 | 428 | O | 3.1.1.74 | ko:K08095 | ko00000,ko01000 | - | Cutinase |
| contig00019.g10098 | FVEG\_12345 | 1467 | G | 3.2.1.155 | ko:K18578 | ko00000,ko01000 | CBM1,GH74 | CBM\_1 |
| contig00019.g10111 | FVEG\_12331 | 678 | - | - | - | - | - | - |
| contig00019.g10112 | FVEG\_12330 | 281 | S | - | - | - | - | Cerato-platanin |
| contig00019.g10118 | FVEG\_12324 | 458 | - | - | - | - | - | LysM |
| contig00019.g10133 | FVEG\_12315 | 514 | S | - | - | - | - | - |
| contig00019.g10150 | FVEG\_12299 | 765 | G | - | - | - | - | Cellulase |
| contig00019.g10154 | FVEG\_12295 | 253 | S | 3.1.27.3 | ko:K01167 | ko00000,ko01000,ko03016,ko03019 | - | Ribonuclease |
| contig00019.g10160 | FVEG\_12289 | 1113 | G | 3.2.1.22 | ko:K07407 | ko00000,ko00001,ko01000 | - | Melibiase\_2 |
| contig00019.g10164 | FVEG\_12285 | 937 | C | - | - | - | - | FAD\_binding\_4 |
| contig00019.g10165 | FVEG\_12284 | 182 | - | - | - | - | - | - |
| contig00019.g10167 | FVEG\_12281 | 821 | - | - | - | - | - | - |
| contig00019.g10168 | FVEG\_12280 | 466 | O | 3.4.21.4 | ko:K01312 | ko00000,ko00001,ko01000,ko01002,ko04147 | - | Trypsin |
| contig00019.g10169 | FVEG\_17206 | 70.9 | - | - | - | - | - | - |
| contig00019.g10170 | FVEG\_12279 | 619 | H | 4.2.2.2 | ko:K01728 | ko00000,ko00001,ko01000 | - | Pec\_lyase\_C |
| contig00019.g10171 | FVEG\_12278 | 946 | S | - | - | - | - | - |
| contig00019.g10206 | FVEG\_12245 | 547 | S | - | - | - | - | Hce2 |
| contig00019.g10207 | FVEG\_12244 | 769 | O | - | - | - | - | Peptidase\_S8 |
| contig00019.g10213 | FVEG\_12238 | 1274 | E | 1.1.99.1 | ko:K00108 | ko00000,ko00001,ko00002,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00019.g10216 | FVEG\_12236 | 909 | S | - | - | - | - | - |
| contig00019.g10217 | FVEG\_12235 | 835 | S | 1.11.2.1 | ko:K21820 | ko00000,ko01000 | - | Peroxidase\_2 |
| contig00019.g10241 | FVEG\_12213 | 659 | G | - | ko:K20465 | ko00000,ko04131 | - | UDPGT |
| contig00019.g10242 | FVEG\_12212 | 450 | S | - | - | - | - | Peroxidase\_2 |
| contig00019.g10245 | FVEG\_12209 | 921 | G | 4.2.2.10 | ko:K01732 | ko00000,ko01000 | - | CBM\_1,Pec\_lyase\_C |
| contig00019.g10250 | FVEG\_12203 | 746 | S | - | ko:K07140 | ko00000 | - | MOSC,MOSC\_N |
| contig00019.g10251 | FVEG\_12202 | 927 | S | - | - | - | - | Amino\_oxidase,NAD\_binding\_8 |
| contig00019.g10261 | FVEG\_12194 | 818 | O | - | - | - | - | Peptidase\_M14,Propep\_M14 |
| contig00019.g10266 | FVEG\_12189 | 1232 | G | 3.2.1.51 | ko:K01206 | ko00000,ko00001,ko01000,ko04147 | GH29 | Alpha\_L\_fucos,Fucosidase\_C |
| contig00019.g10268 | FVEG\_17178 | 847 | S | - | - | - | - | BNR\_4 |
| contig00019.g10274 | FVEG\_12185 | 509 | P | 3.1.3.1 | ko:K01113 | ko00000,ko00001,ko00002,ko01000 | - | PhoD,PhoD\_N |
| contig00019.g10278 | FVEG\_12180 | 496 | O | - | - | - | - | CBM\_1,Lipase\_GDSL\_2 |
| contig00019.g10282 | FVEG\_12176 | 1761 | - | - | - | - | - | - |
| contig00019.g9935 | FVEG\_12502 | 734 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | Glyco\_hydro\_10 |
| contig00019.g9954 | FVEG\_12486 | 486 | G | 3.2.1.151 | ko:K18576 | ko00000,ko01000 | GH12 | Glyco\_hydro\_12 |
| contig00019.g9955 | FVEG\_12485 | 565 | O | - | - | - | - | CBM\_1,Esterase,Peptidase\_S9 |
| contig00019.g9956 | FVEG\_12484 | 1474 | - | - | - | - | - | PAN\_1,PAN\_4 |
| contig00019.g9957 | FVEG\_12483 | 634 | - | - | - | - | - | - |
| contig00019.g9958 | FVEG\_12482 | 843 | G | - | - | - | - | - |
| contig00019.g9981 | FVEG\_17275 | 120 | S | - | - | - | - | Cerato-platanin |
| contig00019.g9982 | FVEG\_12459 | 278 | - | - | - | - | - | - |
| contig00019.g9992 | FVEG\_12448 | 289 | - | - | - | - | - | - |
| contig00019.g9995 | FVEG\_12445 | 645 | P | 4.2.1.1 | ko:K01674 | ko00000,ko00001,ko01000 | - | Carb\_anhydrase |
| contig00019.g9999 | FVEG\_12442 | 1873 | GO | 1.2.3.15 | ko:K20929 | ko00000,ko01000 | - | DUF1929,Glyoxal\_oxid\_N,WSC |
| contig00020.g10296 | FVEG\_12805 | 859 | S | 3.1.4.46 | ko:K01126 | ko00000,ko00001,ko01000 | - | GDPD |
| contig00020.g10297 | FVEG\_12804 | 740 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Glyco\_hydro\_18 |
| contig00020.g10323 | FVEG\_12780 | 791 | F | - | - | - | - | NUP |
| contig00020.g10333 | FVEG\_12770 | 1197 | S | - | ko:K19851,ko:K22493 | ko00000,ko00001,ko00537 | - | CFEM,Candida\_ALS,Candida\_ALS\_N,Flo11 |
| contig00020.g10338 | FVEG\_12766 | 821 | G | - | - | - | - | Pectinesterase |
| contig00020.g10339 | FVEG\_12765 | 408 | S | - | - | - | - | - |
| contig00020.g10360 | FVEG\_12744 | 949 | G | 3.2.1.67 | ko:K01213 | ko00000,ko00001,ko00002,ko01000 | - | Glyco\_hydro\_28 |
| contig00020.g10370 | FVEG\_12733 | 734 | O | - | - | - | - | Pyr\_redox\_2 |
| contig00020.g10375 | FVEG\_12728 | 452 | - | - | - | - | - | - |
| contig00020.g10381 | FVEG\_12722 | 764 | G | 3.2.1.78 | ko:K19355 | ko00000,ko00001,ko01000 | - | Cellulase |
| contig00020.g10384 | FVEG\_12719 | 862 | - | - | - | - | - | - |
| contig00020.g10387 | FVEG\_12716 | 281 | - | - | - | - | - | - |
| contig00020.g10401 | FVEG\_12704 | 1785 | G | - | - | - | - | Chitin\_bind\_1,Glyco\_hydro\_18,LysM |
| contig00020.g10406 | FVEG\_17330 | 2816 | S | - | - | - | - | Lipase\_GDSL\_2,VCBS |
| contig00020.g10421 | FVEG\_12682 | 253 | - | - | - | - | - | - |
| contig00020.g10435 | FVEG\_12666 | 666 | O | - | - | - | - | Glyco\_hydro\_62 |
| contig00020.g10456 | FVEG\_12643 | 853 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18 |
| contig00020.g10482 | FVEG\_12617 | 1769 | S | - | - | - | - | Ank\_2,Ank\_4 |
| contig00020.g10484 | FVEG\_12615 | 1407 | O | - | - | - | - | Amino\_oxidase |
| contig00020.g10500 | FVEG\_12602 | 45.1 | - | - | - | - | - | - |
| contig00020.g10521 | FVEG\_12585 | 1123 | M | - | - | - | - | Ank,Ank\_2,Ank\_3,Ank\_4,HeLo,NACHT |
| contig00020.g10554 | FVEG\_12553 | 1176 | G | 3.2.1.51 | ko:K01206 | ko00000,ko00001,ko01000,ko04147 | GH29 | Alpha\_L\_fucos |
| contig00020.g10561 | FVEG\_12546 | 1043 | O | - | - | - | - | Peptidase\_M14 |
| contig00020.g10568 | FVEG\_12539 | 943 | I | - | - | - | - | Abhydrolase\_6,Hydrolase\_4 |
| contig00020.g10581 | FVEG\_12526 | 676 | S | - | - | - | - | Lactamase\_B |
| contig00020.g10583 | FVEG\_12524 | 976 | G | - | - | - | - | COesterase |
| contig00021.g10727 | FVEG\_01870 | 1706 | G | 3.2.1.6 | ko:K01180 | ko00000,ko01000 | - | Glyco\_hydro\_81 |
| contig00021.g10778 | FVEG\_01819 | 969 | G | - | - | - | - | COesterase |
| contig00021.g10794 | FVEG\_01804 | 671 | O | 3.4.24.39 | ko:K19305 | ko00000,ko01000,ko01002 | - | Aspzincin\_M35,Peptidase\_M35 |
| contig00021.g10801 | FVEG\_01795 | 936 | S | - | - | - | - | Beta-lactamase |
| contig00021.g10820 | FVEG\_01779 | 883 | G | 3.2.1.75 | ko:K22277 | ko00000,ko01000 | GH5 | Cellulase |
| contig00022.g10823 | FVEG\_16810 | 1070 | G | - | - | - | - | COesterase,TB2\_DP1\_HVA22 |
| contig00022.g10864 | FVEG\_16817 | 164 | S | - | - | - | - | Antifungal\_prot |
| contig00022.g10866 | FVEG\_16818 | 102 | - | - | - | - | - | - |
| contig00022.g10881 | FVEG\_10538 | 744 | S | 4.2.1.95 | ko:K20613 | ko00000,ko01000 | - | CrtC,Lipocalin\_9 |
| contig00022.g10885 | FVEG\_10542 | 503 | S | - | - | - | - | Cupin\_1 |
| contig00022.g10887 | FVEG\_10544 | 637 | - | - | - | - | - | - |
| contig00022.g10907 | FVEG\_10558 | 955 | O | - | - | - | - | PA,PQ-loop,Peptidase\_M28 |
| contig00022.g10921 | FVEG\_10576 | 155 | - | - | - | - | - | - |
| contig00022.g10924 | FVEG\_10579 | 226 | - | - | - | - | - | - |
| contig00022.g10928 | FVEG\_10582 | 815 | S | - | - | - | - | Peroxidase\_2 |
| contig00022.g10930 | FVEG\_10584 | 1302 | E | 1.1.99.1 | ko:K00108 | ko00000,ko00001,ko00002,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N,NAD\_binding\_8 |
| contig00022.g10950 | FVEG\_10625 | 694 | G | - | - | - | - | Glyco\_hydro\_43,Laminin\_G\_3 |
| contig00022.g10951 | FVEG\_10624 | 646 | G | 3.2.1.99 | ko:K06113 | ko00000,ko01000 | GH43 | Glyco\_hydro\_43 |
| contig00022.g10971 | FVEG\_10605 | 1639 | G | - | - | - | - | Glyco\_hydro\_79C |
| contig00022.g10974 | FVEG\_10602 | 1057 | O | - | - | - | - | Peptidase\_M14 |
| contig00022.g10976 | FVEG\_10600 | 501 | - | - | - | - | - | - |
| contig00022.g10992 | FVEG\_10647 | 662 | C | 1.14.13.1 | ko:K00480 | ko00000,ko00001,ko01000 | - | FAD\_binding\_3,NAD\_binding\_8 |
| contig00022.g11020 | FVEG\_10673 | 1102 | G | - | - | - | - | Tannase |
| contig00022.g11086 | FVEG\_10735 | 791 | O | - | - | - | - | - |
| contig00022.g11088 | FVEG\_10738 | 1860 | - | - | - | - | - | - |
| contig00022.g11090 | FVEG\_10740 | 1056 | S | - | - | - | - | Beta-lactamase |
| contig00022.g11095 | FVEG\_10744 | 678 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00022.g11098 | FVEG\_10747 | 385 | - | - | - | - | - | But2 |
| contig00023.g11119 | FVEG\_14140 | 1224 | E | 1.1.99.1,4.2.1.142,4.2.1.143 | ko:K00108,ko:K17646 | ko00000,ko00001,ko00002,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00023.g11123 | FVEG\_14136 | 1843 | G | 3.2.1.20 | ko:K01187 | ko00000,ko00001,ko01000 | GH31 | Gal\_mutarotas\_2,Glyco\_hydro\_31,NtCtMGAM\_N |
| contig00023.g11142 | FVEG\_14117 | 284 | - | - | - | - | - | - |
| contig00023.g11147 | FVEG\_01522 | 472 | C | - | - | - | - | ADH\_N,ADH\_zinc\_N |
| contig00023.g11169 | FVEG\_01544 | 353 | - | - | - | - | - | - |
| contig00023.g11172 | FVEG\_01546 | 757 | P | - | - | - | - | SBP\_bac\_1,SBP\_bac\_6 |
| contig00023.g11173 | FVEG\_01547 | 506 | S | - | - | - | - | DUF3129 |
| contig00023.g11178 | FVEG\_01553 | 632 | O | - | - | - | - | - |
| contig00023.g11179 | FVEG\_01554 | 294 | - | - | - | - | - | - |
| contig00023.g11182 | FVEG\_01557 | 746 | O | 3.4.11.10 | ko:K05994 | ko00000,ko01000,ko01002 | - | Peptidase\_M28 |
| contig00023.g11183 | FVEG\_14861 | 2622 | M | - | - | - | - | Ank\_2,Ank\_4,NACHT |
| contig00023.g11194 | FVEG\_01567 | 946 | S | - | - | - | - | LVIVD |
| contig00023.g11203 | FVEG\_01575 | 202 | S | - | - | - | - | Hydrophobin\_2 |
| contig00023.g11212 | FVEG\_01583 | 3634 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18 |
| contig00023.g11213 | FVEG\_01584 | 1504 | O | - | - | - | - | Chitin\_bind\_1,LysM |
| contig00023.g11225 | FVEG\_01594 | 1403 | - | - | - | - | - | - |
| contig00023.g11228 | FVEG\_01596 | 479 | - | - | - | - | - | - |
| contig00023.g11231 | FVEG\_01598 | 215 | - | - | - | - | - | - |
| contig00023.g11247 | FVEG\_01614 | 773 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00023.g11248 | FVEG\_01615 | 348 | - | - | - | - | - | - |
| contig00023.g11257 | FVEG\_01622 | 536 | - | - | - | - | - | - |
| contig00023.g11264 | FVEG\_01630 | 419 | S | - | - | - | - | - |
| contig00023.g11280 | FVEG\_01647 | 1103 | T | - | ko:K08288 | ko00000,ko00001,ko04091 | - | PRKCSH-like,PRKCSH\_1 |
| contig00023.g11292 | FVEG\_01659 | 144 | - | - | - | - | - | - |
| contig00023.g11293 | FVEG\_01660 | 252 | - | - | - | - | - | - |
| contig00023.g11302 | FVEG\_01670 | 812 | C | - | - | - | - | FAD\_binding\_3 |
| contig00023.g11358 | FVEG\_01726 | 306 | S | - | - | - | - | - |
| contig00023.g11361 | FVEG\_01729 | 374 | S | - | - | - | - | EthD |
| contig00023.g11363 | FVEG\_01731 | 1006 | S | - | ko:K09704 | ko00000 | - | Glyco\_hydro\_125 |
| contig00023.g11374 | FVEG\_01746 | 555 | - | - | - | - | - | PAN\_4 |
| contig00023.g11385 | FVEG\_01758 | 292 | - | - | - | - | - | - |
| contig00023.g11392 | FVEG\_14919 | 902 | Q | - | - | - | - | p450 |
| contig00023.g11396 | FVEG\_01770 | 895 | G | 3.2.1.4 | ko:K19357 | ko00000,ko00001,ko01000 | GH7 | Glyco\_hydro\_7 |
| contig00023.g11406 | FVEG\_01778 | 469 | G | 3.2.1.132 | ko:K01233 | ko00000,ko00001,ko01000 | - | Glyco\_hydro\_75 |
| contig00024.g11452 | FVEG\_06297 | 685 | S | - | - | - | - | Fasciclin |
| contig00024.g11586 | FVEG\_06439 | 683 | O | - | - | - | - | Glyco\_hydro\_43 |
| contig00024.g11590 | FVEG\_06442 | 1103 | G | - | - | - | - | COesterase,TB2\_DP1\_HVA22 |
| contig00024.g11608 | FVEG\_06459 | 619 | G | 1.14.99.54 | ko:K19356 | ko00000,ko01000 | AA9,CBM1 | CBM\_1,Glyco\_hydro\_61 |
| contig00025.g11645 | FVEG\_13584 | 1113 | - | - | - | - | - | - |
| contig00025.g11649 | FVEG\_13581 | 1051 | - | - | - | - | - | - |
| contig00025.g11652 | FVEG\_13578 | 979 | G | - | - | - | - | Glyco\_hydr\_30\_2,Glyco\_hydro\_30,Glyco\_hydro\_30C |
| contig00025.g11663 | FVEG\_13565 | 272 | - | - | - | - | - | - |
| contig00025.g11674 | FVEG\_13557 | 270 | - | - | - | - | - | - |
| contig00025.g11675 | FVEG\_13555 | 1472 | G | 3.1.3.2 | ko:K01078,ko:K22390 | ko00000,ko00001,ko01000 | - | Metallophos,Metallophos\_C,Pur\_ac\_phosph\_N |
| contig00025.g11676 | FVEG\_13554 | 938 | G | - | - | - | - | Glyco\_hydro\_30C |
| contig00025.g11677 | FVEG\_13553 | 742 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00025.g11683 | FVEG\_17547 | 3091 | GO | - | - | - | - | LysM,Pectate\_lyase\_3,WSC |
| contig00025.g11684 | FVEG\_17546 | 1969 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18 |
| contig00025.g11694 | FVEG\_13534 | 437 | S | 3.1.1.72 | ko:K05972 | ko00000,ko01000 | - | Cutinase |
| contig00025.g11697 | FVEG\_13531 | 1040 | V | - | - | - | - | ALO,FAD\_binding\_4 |
| contig00025.g11707 | FVEG\_13522 | 602 | O | 3.1.1.72 | ko:K05972 | ko00000,ko01000 | - | Esterase\_phd |
| contig00025.g11713 | FVEG\_13516 | 733 | G | 3.2.1.15,3.2.1.67 | ko:K01184,ko:K01213 | ko00000,ko00001,ko00002,ko01000 | - | CBM\_1,Glyco\_hydro\_28 |
| contig00025.g11727 | FVEG\_13504 | 515 | O | 1.14.99.54 | ko:K19356 | ko00000,ko01000 | AA9,CBM1 | CBM\_1,Glyco\_hydro\_61 |
| contig00025.g11730 | FVEG\_02317 | 95.5 | - | - | - | - | - | - |
| contig00025.g11731 | FVEG\_17533 | 1987 | G | 3.2.1.28 | ko:K01194 | ko00000,ko00001,ko00537,ko01000 | GH37 | Glyco\_hydro\_65C,Glyco\_hydro\_65N,Glyco\_hydro\_65m |
| contig00025.g11732 | FVEG\_13498 | 300 | - | - | - | - | - | - |
| contig00025.g11736 | FVEG\_13495 | 245 | - | - | - | - | - | - |
| contig00025.g11747 | FVEG\_13483 | 131 | - | - | - | - | - | - |
| contig00025.g11760 | FVEG\_13471 | 695 | - | - | - | - | - | - |
| contig00025.g11768 | FVEG\_13463 | 165 | - | - | - | - | - | - |
| contig00025.g11774 | FVEG\_13457 | 699 | G | - | - | - | - | CBM\_1,Glyco\_hydro\_16 |
| contig00025.g11775 | FVEG\_13456 | 244 | - | - | - | - | - | - |
| contig00025.g11777 | FVEG\_13454 | 450 | - | - | - | - | - | - |
| contig00025.g11781 | FVEG\_13450 | 970 | C | - | - | - | - | FAD\_binding\_4 |
| contig00025.g11792 | FVEG\_13439 | 313 | - | - | - | - | - | - |
| contig00025.g11793 | FVEG\_17524 | 1021 | S | - | - | - | - | Lipase\_GDSL\_2,VCBS |
| contig00025.g11797 | FVEG\_13433 | 560 | O | - | - | - | - | Peptidase\_M43 |
| contig00025.g11804 | FVEG\_13426 | 745 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00025.g11826 | FVEG\_13405 | 1359 | Q | - | - | - | - | Cu-oxidase,Cu-oxidase\_2,Cu-oxidase\_3 |
| contig00025.g11827 | FVEG\_13404 | 1718 | O | - | - | - | - | FlgD\_ig,PA,Peptidase\_S8,fn3\_5 |
| contig00025.g11841 | FVEG\_13391 | 1550 | G | 3.2.1.21 | ko:K05349 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00025.g11869 | FVEG\_13364 | 674 | S | - | ko:K06889 | ko00000 | - | Abhydrolase\_6 |
| contig00025.g11874 | FVEG\_13359 | 1062 | G | - | - | - | - | COesterase |
| contig00025.g11877 | FVEG\_13356 | 216 | IQ | - | - | - | - | p450 |
| contig00025.g11882 | FVEG\_13350 | 586 | S | - | - | - | - | NPP1 |
| contig00025.g11886 | FVEG\_17506 | 204 | - | - | - | - | - | - |
| contig00025.g11887 | FVEG\_13346 | 391 | - | - | - | - | - | - |
| contig00025.g11889 | FVEG\_13344 | 674 | O | - | - | - | - | Glyco\_hydro\_61 |
| contig00025.g11890 | FVEG\_13343 | 663 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | Glyco\_hydro\_10 |
| contig00025.g11895 | FVEG\_13339 | 1168 | G | - | - | - | - | COesterase |
| contig00025.g11908 | FVEG\_13328 | 910 | G | - | - | - | - | Glyco\_hydro\_43 |
| contig00025.g11910 | FVEG\_13325 | 888 | O | - | - | - | - | Peptidase\_S9 |
| contig00026.g11914 | FVEG\_17495 | 85.5 | S | - | ko:K13449 | ko00000,ko00001 | - | CAP |
| contig00026.g11930 | FVEG\_13310 | 1634 | E | 1.1.99.18 | ko:K19069 | ko00000,ko01000 | - | CBM\_1,CDH-cyt,GMC\_oxred\_C,GMC\_oxred\_N |
| contig00026.g11934 | FVEG\_13307 | 1081 | E | 1.1.99.18 | ko:K19069 | ko00000,ko01000 | - | GMC\_oxred\_C,GMC\_oxred\_N |
| contig00026.g11935 | FVEG\_13306 | 783 | O | 3.4.23.25 | ko:K01381 | ko00000,ko00001,ko01000,ko01002 | - | Asp |
| contig00026.g11936 | FVEG\_13305 | 946 | S | - | - | - | - | Glyco\_hydro\_39 |
| contig00026.g11937 | FVEG\_13304 | 1074 | G | 3.2.1.59 | ko:K08254 | ko00000,ko01000 | - | Glyco\_hydro\_71 |
| contig00026.g11941 | FVEG\_13300 | 800 | - | - | - | - | - | - |
| contig00026.g11951 | FVEG\_13289 | 1132 | H | - | - | - | - | Amino\_oxidase |
| contig00026.g11953 | FVEG\_17483 | 421 | G | - | - | - | - | Lactonase |
| contig00026.g11981 | FVEG\_13262 | 775 | O | - | - | - | - | BNR |
| contig00026.g11986 | FVEG\_13256 | 1037 | S | - | - | - | - | PepX\_C,Peptidase\_S15 |
| contig00026.g11988 | FVEG\_13254 | 1143 | - | - | - | - | - | - |
| contig00026.g11994 | FVEG\_13248 | 750 | - | - | - | - | - | - |
| contig00026.g12035 | FVEG\_13207 | 479 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | Glyco\_hydro\_11 |
| contig00026.g12057 | FVEG\_13183 | 798 | O | 3.2.1.172 | ko:K15532 | ko00000,ko01000 | GH105 | Glyco\_hydro\_88 |
| contig00026.g12059 | FVEG\_13181 | 611 | - | - | - | - | - | - |
| contig00026.g12064 | FVEG\_13176 | 421 | - | - | - | - | - | - |
| contig00026.g12079 | FVEG\_13160 | 867 | M | - | ko:K05747 | ko00000,ko00001,ko04131,ko04812 | - | Fasciclin |
| contig00027.g12245 | FVEG\_08190 | 378 | S | - | - | - | - | DUF1524 |
| contig00027.g12280 | FVEG\_16262 | 107 | - | - | - | - | - | - |
| contig00028.g12312 | FVEG\_10761 | 138 | - | - | - | - | - | - |
| contig00028.g12315 | FVEG\_10764 | 367 | - | - | - | - | - | - |
| contig00028.g12322 | FVEG\_10770 | 379 | - | - | - | - | - | - |
| contig00028.g12347 | FVEG\_10795 | 633 | G | 3.1.1.11 | ko:K01051 | ko00000,ko00001,ko00002,ko01000 | - | Pectinesterase |
| contig00028.g12348 | FVEG\_10796 | 274 | - | - | - | - | - | - |
| contig00028.g12351 | FVEG\_10798 | 895 | O | - | - | - | - | Abhydrolase\_6,DUF1100 |
| contig00028.g12363 | FVEG\_10812 | 443 | - | - | - | - | - | - |
| contig00028.g12365 | FVEG\_10814 | 774 | O | - | - | - | - | Beta\_helix,CBM\_1,Chondroitinas\_B |
| contig00028.g12387 | FVEG\_10833 | 512 | S | - | - | - | - | CAP |
| contig00028.g12400 | FVEG\_10845 | 827 | S | - | - | - | - | Beta\_helix |
| contig00028.g12402 | FVEG\_10848 | 308 | S | - | - | - | - | HsbA |
| contig00028.g12413 | FVEG\_10860 | 634 | - | - | - | - | - | - |
| contig00028.g12415 | FVEG\_10862 | 485 | E | - | - | - | - | Pectate\_lyase |
| contig00028.g12416 | FVEG\_10863 | 764 | O | - | - | - | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00028.g12419 | FVEG\_10867 | 1071 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00028.g12421 | FVEG\_10869 | 333 | - | - | - | - | - | - |
| contig00028.g12446 | FVEG\_10896 | 986 | S | - | - | - | - | DUF1593 |
| contig00028.g12447 | FVEG\_10897 | 1030 | G | 3.2.1.91 | ko:K01225 | ko00000,ko00001,ko01000 | GH7 | Glyco\_hydro\_7 |
| contig00028.g12452 | FVEG\_10901 | 1169 | G | 3.1.1.73 | ko:K09252 | ko00000,ko01000 | - | Tannase |
| contig00028.g12458 | FVEG\_10907 | 643 | Q | 1.5.3.14,1.5.3.16 | ko:K13366 | ko00000,ko00001,ko01000 | - | Amino\_oxidase |
| contig00028.g12476 | FVEG\_10918 | 1238 | S | - | - | - | - | Glyco\_hydro\_127 |
| contig00028.g12485 | FVEG\_10926 | 926 | S | 3.1.3.2 | ko:K01078 | ko00000,ko00001,ko01000 | - | His\_Phos\_2 |
| contig00028.g12487 | FVEG\_10928 | 1005 | - | - | - | - | - | - |
| contig00028.g12495 | FVEG\_10936 | 560 | A | 3.1.27.1 | ko:K01166 | ko00000,ko01000,ko03016 | - | Ribonuclease\_T2 |
| contig00028.g12501 | FVEG\_10941 | 527 | S | - | - | - | - | NPP1 |
| contig00028.g12518 | FVEG\_10956 | 325 | - | - | - | - | - | - |
| contig00028.g12524 | FVEG\_10963 | 580 | O | - | - | - | - | - |
| contig00029.g12594 | FVEG\_07261 | 503 | G | 3.2.1.8 | ko:K01181 | ko00000,ko01000 | - | CBM\_1,Glyco\_hydro\_11 |
| contig00029.g12624 | FVEG\_07233 | 1104 | O | - | - | - | - | Peptidase\_S28 |
| contig00029.g12625 | FVEG\_07232 | 654 | O | 1.14.99.54 | ko:K19356 | ko00000,ko01000 | AA9,CBM1 | CBM\_1,Glyco\_hydro\_61 |
| contig00029.g12630 | FVEG\_07227 | 678 | E | 3.5.1.26 | ko:K01444 | ko00000,ko00001,ko01000 | - | Asparaginase\_2 |
| contig00029.g12658 | FVEG\_07203 | 332 | - | - | - | - | - | - |
| contig00029.g12663 | FVEG\_07198 | 895 | O | - | - | - | - | Peptidase\_M14 |
| contig00029.g12686 | FVEG\_07174 | 412 | - | - | - | - | - | - |
| contig00029.g12687 | FVEG\_07173 | 672 | S | - | - | - | - | Lipase\_GDSL\_2 |
| contig00029.g12688 | FVEG\_07172 | 299 | S | - | - | - | - | Cerato-platanin |
| contig00029.g12689 | FVEG\_07171 | 362 | - | - | - | - | - | - |
| contig00029.g12691 | FVEG\_07168 | 375 | S | - | - | - | - | - |
| contig00029.g12692 | FVEG\_07167 | 1125 | C | - | - | - | - | BBE,FAD\_binding\_4 |
| contig00030.g12704 | FVER53263\_20291 | 80.1 | - | - | - | - | - | - |
| contig00030.g12716 | FVER53263\_20411 | 324 | F | - | - | - | - | - |
| contig00030.g12739 | FVEG\_12002 | 1764 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18,LysM |
| contig00030.g12741 | FVER53263\_20903 | 507 | G | - | - | - | - | LysM |
| contig00030.g12755 | FVEG\_01809 | 169 | - | - | - | - | - | - |
| contig00030.g12773 | FVEG\_11126 | 253 | - | - | - | - | - | - |
| contig00030.g12800 | FVEG\_13989 | 609 | S | - | - | - | - | SGL |
| contig00030.g12815 | FVEG\_17692 | 204 | - | - | - | - | - | - |
| contig00030.g12826 | FVEG\_17699 | 278 | - | - | - | - | - | - |
| contig00030.g12833 | FVEG\_14021 | 319 | - | - | - | - | - | - |
| contig00031.g12848 | FVEG\_03433 | 317 | S | - | - | - | - | - |
| contig00031.g12850 | FVEG\_15264 | 266 | S | - | - | - | - | WSC |
| contig00031.g12857 | FVEG\_03442 | 358 | - | - | - | - | - | - |
| contig00031.g12859 | FVEG\_03444 | 594 | H | - | - | - | - | PBP\_like\_2 |
| contig00031.g12874 | FVEG\_03457 | 1120 | S | - | - | - | - | Beta-lactamase |
| contig00031.g12880 | FVEG\_03463 | 766 | G | 3.2.1.78 | ko:K19355 | ko00000,ko00001,ko01000 | - | Cellulase |
| contig00031.g12884 | FVEG\_15271 | 446 | - | - | - | - | - | - |
| contig00031.g12887 | FVEG\_12594 | 869 | G | - | - | - | - | Cellulase |
| contig00031.g12908 | FVEG\_03492 | 532 | S | - | - | - | - | Kp4 |
| contig00031.g12910 | FVEG\_03494 | 1143 | O | 3.4.14.9 | ko:K01279 | ko00000,ko00001,ko01000,ko01002,ko03110,ko04147 | - | Peptidase\_S8,Pro-kuma\_activ |
| contig00031.g12919 | FVEG\_03505 | 124 | - | - | - | - | - | - |
| contig00031.g12920 | FVEG\_03506 | 598 | O | - | - | - | - | Glyco\_hydro\_61 |
| contig00031.g12933 | FVEG\_03519 | 467 | G | - | - | - | - | Pectate\_lyase |
| contig00031.g12936 | FVEG\_03522 | 510 | O | 3.1.1.86 | ko:K15530 | ko00000,ko01000 | - | CBM\_1,Lipase\_GDSL\_2 |
| contig00031.g12937 | FVEG\_03523 | 215 | S | - | - | - | - | Kp4 |
| contig00031.g12938 | FVEG\_03524 | 259 | S | - | - | - | - | Kp4 |
| contig00031.g12939 | FVEG\_03525 | 219 | S | - | - | - | - | Kp4 |
| contig00031.g12940 | FVEG\_03526 | 1554 | E | 1.1.99.18 | ko:K19069 | ko00000,ko01000 | - | CDH-cyt,GMC\_oxred\_C,GMC\_oxred\_N |
| contig00031.g12942 | FVEG\_03528 | 860 | - | - | - | - | - | - |
| contig00031.g12943 | FVEG\_03529 | 209 | - | - | - | - | - | - |
| contig00031.g12983 | FVEG\_03576 | 347 | - | - | - | - | - | - |
| contig00031.g12984 | FVEG\_03577 | 1239 | O | - | - | - | - | ERO1 |
| contig00031.g12999 | FVEG\_03591 | 361 | S | - | - | - | - | DUF3328 |
| contig00031.g13022 | FVEG\_03617 | 616 | G | - | - | - | - | LysM |
| contig00031.g13025 | FVEG\_03620 | 578 | - | - | - | - | - | - |
| contig00031.g13028 | FVEG\_03623 | 521 | G | - | - | - | - | LysM |
| contig00032.g13061 | FVEG\_01486 | 815 | S | - | ko:K01238 | ko00000,ko01000 | - | SUN |
| contig00032.g13126 | FVEG\_01414 | 1257 | G | 3.2.1.52 | ko:K12373 | ko00000,ko00001,ko00002,ko01000,ko03110 | GH20 | Glyco\_hydro\_20,Glycohydro\_20b2 |
| contig00032.g13164 | FVEG\_01377 | 981 | O | 5.3.4.1 | ko:K09580 | ko00000,ko00001,ko01000,ko03110,ko04131,ko04147 | - | Thioredoxin,Thioredoxin\_6 |
| contig00033.g13172 | FVEG\_13757 | 476 | O | - | - | - | - | CBM\_1,Lipase\_GDSL\_2 |
| contig00033.g13193 | FVEG\_13736 | 687 | S | - | - | - | - | - |
| contig00033.g13199 | FVEG\_13730 | 689 | S | 1.1.1.2 | ko:K00002 | ko00000,ko00001,ko00002,ko01000,ko04147 | - | Aldo\_ket\_red |
| contig00033.g13201 | FVEG\_13728 | 479 | - | - | - | - | - | - |
| contig00033.g13217 | FVEG\_13711 | 633 | G | 4.2.2.10 | ko:K01732 | ko00000,ko01000 | - | Pec\_lyase\_C |
| contig00033.g13221 | FVEG\_13708 | 427 | - | - | - | - | - | - |
| contig00033.g13237 | FVEG\_13692 | 379 | S | - | ko:K09705 | ko00000 | - | Cupin\_5 |
| contig00033.g13244 | FVEG\_13685 | 736 | E | 3.5.1.16 | ko:K01438 | ko00000,ko00001,ko00002,ko01000 | - | M20\_dimer,Peptidase\_M20,Peptidase\_M28 |
| contig00033.g13255 | FVEG\_13674 | 1317 | T | - | - | - | - | - |
| contig00033.g13260 | FVEG\_13669 | 278 | - | - | - | - | - | - |
| contig00033.g13262 | FVEG\_13668 | 353 | - | - | - | - | - | - |
| contig00033.g13274 | FVEG\_13657 | 1547 | G | 3.2.1.6 | ko:K01180 | ko00000,ko01000 | - | Glyco\_hydro\_81 |
| contig00033.g13276 | FVEG\_13655 | 350 | S | - | - | - | - | EthD |
| contig00033.g13289 | FVEG\_13643 | 257 | - | - | - | - | - | - |
| contig00033.g13290 | FVEG\_13642 | 293 | - | - | - | - | - | - |
| contig00033.g13295 | FVEG\_13638 | 442 | O | 3.1.1.74 | ko:K08095 | ko00000,ko01000 | - | Cutinase |
| contig00033.g13299 | FVEG\_11762 | 153 | IQ | - | - | - | - | AMP-binding,AMP-binding\_C,Acyl\_transf\_1,Condensation,KAsynt\_C\_assoc,NAD\_binding\_4,PP-binding,ketoacyl-synt |
| contig00033.g13302 | FVEG\_13630 | 1210 | O | - | ko:K01417 | ko00000,ko01000,ko01002 | - | FTP,Peptidase\_M36 |
| contig00033.g13316 | FVEG\_13614 | 979 | EO | - | - | - | - | Peptidase\_S10 |
| contig00033.g13326 | FVEG\_13605 | 818 | O | - | - | - | - | Asp |
| contig00034.g13348 | FVEG\_12922 | 212 | - | - | - | - | - | - |
| contig00034.g13355 | FVEG\_12928 | 895 | S | 3.1.3.2 | ko:K01078 | ko00000,ko00001,ko01000 | - | Phosphoesterase |
| contig00034.g13357 | FVEG\_12930 | 801 | G | 3.2.1.4 | ko:K01179 | ko00000,ko00001,ko01000 | GH5,GH9 | CBM\_1,Cellulase |
| contig00034.g13361 | FVEG\_12936 | 741 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00034.g13378 | alpha-N-arabinofuranosidase | 981 | G | 3.2.1.55 | ko:K20844 | ko00000,ko00001,ko01000 | CBM42,GH54 | AbfB,ArabFuran-catal |
| contig00034.g13383 | FVEG\_12957 | 954 | G | 3.2.1.1 | ko:K01176 | ko00000,ko00001,ko01000 | GH13 | Alpha-amylase,CBM\_20,DUF1966 |
| contig00034.g13390 | FVEG\_12964 | 574 | O | - | - | - | - | Peptidase\_M43 |
| contig00034.g13392 | FVEG\_12965 | 554 | O | - | - | - | - | Glyco\_hydro\_16 |
| contig00034.g13413 | FVEG\_17415 | 52.8 | S | - | - | - | - | - |
| contig00034.g13414 | FVEG\_12983 | 806 | S | - | - | - | - | - |
| contig00034.g13439 | FVEG\_13004 | 131 | - | - | - | - | - | - |
| contig00034.g13443 | FVEG\_13008 | 2179 | O | - | - | - | - | Glyco\_hydro\_115 |
| contig00034.g13462 | FVER53590\_30399 | 484 | S | - | - | - | - | Fungal\_lectin |
| contig00034.g13492 | FVEG\_13055 | 1474 | G | 3.2.1.21 | ko:K05349 | ko00000,ko00001,ko01000 | GH3 | Fn3-like,Glyco\_hydro\_3,Glyco\_hydro\_3\_C |
| contig00034.g13515 | FVEG\_13080 | 593 | S | - | - | - | - | DUF3129 |
| contig00035.g13536 | FVEG\_04196 | 1157 | Q | - | - | - | - | Cu-oxidase,Cu-oxidase\_2,Cu-oxidase\_3 |
| contig00035.g13603 | FVEG\_04262 | 367 | S | - | - | - | - | Hce2 |
| contig00035.g13607 | FVEG\_04266 | 841 | G | - | ko:K03854,ko:K10967 | ko00000,ko00001,ko01000,ko01003 | GT15 | Glyco\_transf\_15 |
| contig00035.g13618 | FVEG\_04278 | 756 | - | - | - | - | - | - |
| contig00036.g13641 | FVEG\_13840 | 561 | - | - | - | - | - | - |
| contig00036.g13642 | FVEG\_13841 | 753 | G | - | - | - | - | Beta\_helix,Chondroitinas\_B |
| contig00036.g13648 | FVEG\_13846 | 144 | - | - | - | - | - | - |
| contig00036.g13649 | FVEG\_13848 | 1454 | - | - | - | - | - | MU117 |
| contig00036.g13650 | FVEG\_13849 | 1168 | G | 3.2.1.3 | ko:K01178 | ko00000,ko00001,ko01000 | GH15 | CBM\_20,Glyco\_hydro\_15 |
| contig00036.g13654 | FVEG\_13853 | 261 | - | - | - | - | - | - |
| contig00036.g13658 | FVEG\_13856 | 66.6 | - | - | - | - | - | - |
| contig00036.g13666 | FVEG\_13865 | 283 | S | - | - | - | - | Kp4 |
| contig00036.g13672 | FVEG\_13872 | 332 | - | - | - | - | - | - |
| contig00036.g13678 | FVEG\_13877 | 371 | V | - | - | - | - | CBM\_4\_9 |
| contig00036.g13681 | FVEG\_17643 | 114 | - | - | - | - | - | - |
| contig00036.g13689 | FVEG\_13886 | 909 | - | - | - | - | - | - |
| contig00036.g13690 | FVEG\_13887 | 165 | S | - | - | - | - | - |
| contig00036.g13699 | FVEG\_13897 | 855 | S | - | - | - | - | MmgE\_PrpD |
| contig00036.g13705 | FVEG\_13902 | 134 | - | - | - | - | - | - |
| contig00036.g13713 | FVEG\_13909 | 797 | G | - | - | - | - | Lactonase |
| contig00036.g13718 | FVEG\_13912 | 1093 | - | - | - | - | - | - |
| contig00036.g13728 | FVEG\_13920 | 246 | - | - | - | - | - | - |
| contig00036.g13733 | FVEG\_13926 | 1127 | T | - | - | - | - | COesterase |
| contig00036.g13745 | FVEG\_13934 | 813 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00036.g13758 | FVEG\_13947 | 200 | - | - | - | - | - | - |
| contig00036.g13759 | FVEG\_13948 | 495 | S | - | - | - | - | DJ-1\_PfpI |
| contig00036.g13760 | FVEG\_13949 | 896 | S | - | - | - | - | EHN |
| contig00037.g13766 | FVEG\_12913 | 978 | G | 3.2.1.123 | ko:K05991 | ko00000,ko01000 | GH5 | Cellulase,Ricin\_B\_lectin |
| contig00037.g13769 | FVEG\_12910 | 804 | G | 3.1.1.17 | ko:K01053 | ko00000,ko00001,ko00002,ko01000,ko04147 | - | SGL |
| contig00037.g13776 | FVEG\_12905 | 868 | S | - | - | - | - | LIP |
| contig00037.g13792 | FVEG\_12888 | 1574 | Q | 1.11.1.21 | ko:K03782 | ko00000,ko00001,ko01000 | - | peroxidase |
| contig00037.g13801 | FVEG\_12879 | 85.9 | S | - | - | - | - | - |
| contig00037.g13802 | FVEG\_12878 | 1040 | O | 3.4.16.5 | ko:K13289 | ko00000,ko00001,ko01000,ko01002,ko03110,ko04131,ko04147 | - | Peptidase\_S10 |
| contig00037.g13824 | FVEG\_12856 | 679 | - | - | - | - | - | LPMO\_10 |
| contig00037.g13842 | FVEG\_12840 | 650 | O | - | - | - | - | Glyco\_hydro\_16 |
| contig00037.g13861 | FVEG\_12823 | 1055 | Q | 1.5.3.14,1.5.3.16 | ko:K13366 | ko00000,ko00001,ko01000 | - | Amino\_oxidase |
| contig00038.g13872 | FVEG\_13759 | 627 | G | 3.2.1.39,3.2.1.58 | ko:K01199,ko:K01210 | ko00000,ko00001,ko00537,ko01000 | GH17 | Glyco\_hydro\_17 |
| contig00038.g13878 | FVEG\_17600 | 1923 | G | 3.2.1.14 | ko:K01183 | ko00000,ko00001,ko01000 | GH18 | Chitin\_bind\_1,Glyco\_hydro\_18 |
| contig00038.g13879 | FVEG\_13765 | 785 | S | - | - | - | - | LysM |
| contig00038.g13880 | FVEG\_13766 | 1270 | G | - | - | - | - | LysM |
| contig00038.g13889 | FVEG\_13776 | 712 | S | 1.14.18.1 | ko:K00505 | ko00000,ko00001,ko00002,ko01000 | - | Tyrosinase |
| contig00038.g13901 | FVEG\_13788 | 260 | - | - | - | - | - | - |
| contig00038.g13923 | FVEG\_13811 | 754 | O | 3.4.21.63 | ko:K18549 | ko00000,ko01000,ko01002 | - | Inhibitor\_I9,Peptidase\_S8 |
| contig00038.g13925 | FVEG\_13813 | 527 | S | - | - | - | - | Glyco\_hydro\_114 |
| contig00038.g13929 | FVEG\_17613 | 1650 | G | 3.2.1.165 | ko:K15855 | ko00000,ko00001,ko01000 | - | Glyco\_hydro\_2,Glyco\_hydro\_2\_C,Glyco\_hydro\_2\_N |
| contig00038.g13931 | FVEG\_13819 | 507 | O | 3.5.1.104 | ko:K22278 | ko00000,ko01000 | - | Chitin\_bind\_1,Polysacc\_deac\_1 |
| contig00038.g13935 | FVEG\_13823 | 1175 | G | 3.1.1.20 | ko:K10759 | ko00000,ko01000 | - | Tannase |
| contig00038.g13937 | FVEG\_17615 | 52.8 | E | - | - | - | - | PAN\_4 |
| contig00038.g13940 | FVEG\_13826 | 662 | - | - | - | - | - | SGL |
| contig00038.g13946 | FVEG\_13832 | 714 | - | - | - | - | - | - |
| contig00038.g13947 | FVEG\_13833 | 452 | - | - | - | - | - | - |
| contig00038.g13948 | FVEG\_13834 | 501 | - | - | - | - | - | - |
| contig00039.g13978 | FVEG\_05076 | 400 | S | - | - | - | - | CHRD |
| contig00039.g13985 | FVEG\_05084 | 983 | O | - | ko:K09523 | ko00000,ko00001,ko03110 | - | DnaJ,TPR\_16,TPR\_19,TPR\_8 |
| contig00040.g14015 | FVEG\_11410 | 1080 | S | - | - | - | - | Arylsulfotran\_2 |
| contig00040.g14028 | FVEG\_11396 | 188 | - | - | - | - | - | - |
| contig00041.g14044 | FVEG\_13986 | 2040 | - | - | - | - | - | - |
| contig00041.g14065 | FVEG\_13966 | 289 | S | - | - | - | - | - |
| contig00041.g14068 | FVEG\_13964 | 272 | S | - | - | - | - | Kp4 |
| contig00041.g14076 | FVEG\_13957 | 691 | G | 4.2.2.2 | ko:K01728 | ko00000,ko00001,ko01000 | - | Pec\_lyase\_C |
| contig00043.g14114 | FVEG\_04535 | 321 | S | - | - | - | - | CM\_2 |
| contig00043.g14137 | FVEG\_14092 | 354 | S | - | - | - | - | - |
| contig00043.g14138 | FVEG\_14091 | 1083 | G | - | - | - | - | COesterase |
| contig00001.g1263 | FVEG\_01295 | - | - | - | - | - | - | - |
| contig00003.g2176 | FVEG\_05714 | - | - | - | - | - | - | - |
| contig00004.g3188 | FVEG\_03382 | - | - | - | - | - | - | - |
| contig00004.g3223 | FVEG\_03292 | - | - | - | - | - | - | - |
| contig00004.g3227 | FVEG\_15235 | - | - | - | - | - | - | - |
| contig00004.g3219 | FVEG\_03290 | - | - | - | - | - | - | - |
| contig00004.g3463 | FVEG\_16576 | - | - | - | - | - | - | - |
| contig00004.g3499 | FVEG\_09444 | - | - | - | - | - | - | - |
| contig00005.g3620 | FVEG\_16681 | - | - | - | - | - | - | - |
| contig00005.g3721 | FVEG\_07105 | - | - | - | - | - | - | - |
| contig00007.g4833 | FVEG\_03682 | - | - | - | - | - | - | - |
| contig00007.g4834 | FVEG\_03683 | - | - | - | - | - | - | - |
| contig00007.g4844 | FVEG\_03690 | - | - | - | - | - | - | - |
| contig00012.g7511 | FVEG\_05945 | - | - | - | - | - | - | - |
| contig00012.g7513 | FVEG\_15768 | - | - | - | - | - | - | - |
| contig00014.g8484 | FVEG\_07751 | - | - | - | - | - | - | - |
| contig00018.g9760 | FVEG\_11959 | - | - | - | - | - | - | - |
| contig00019.g10121 | FVEG\_17224 | - | - | - | - | - | - | - |
| contig00020.g10432 | FVEG\_12670 | - | - | - | - | - | - | - |
| contig00020.g10490 | FVEG\_17310 | - | - | - | - | - | - | - |
| contig00020.g10510 | FVEG\_17305 | - | - | - | - | - | - | - |
| contig00021.g10718 | FVEG\_01879 | - | - | - | - | - | - | - |
| contig00022.g10899 | FVEG\_16828 | - | - | - | - | - | - | - |
| contig00022.g11027 | FVEG\_16861 | - | - | - | - | - | - | - |
| contig00028.g12316 | FVEG\_10765 | - | - | - | - | - | - | - |
| contig00030.g12789 | FVEG\_09724 | - | - | - | - | - | - | - |
| contig00030.g12825 | FVEG\_14015 | - | - | - | - | - | - | - |
| contig00030.g12837 | FVEG\_14025 | - | - | - | - | - | - | - |
| contig00031.g12882 | FVEG\_03465 | - | - | - | - | - | - | - |
| contig00031.g13027 | FVEG\_15301 | - | - | - | - | - | - | - |
| contig00033.g13263 | FVEG\_13667 | - | - | - | - | - | - | - |
| contig00033.g13343 | FVEG\_13589 | - | - | - | - | - | - | - |
| contig00034.g13415 | FVEG\_17416 | - | - | - | - | - | - | - |
| contig00034.g13416 | FVEG\_12984 | - | - | - | - | - | - | - |
| contig00034.g13425 | FVEG\_17418 | - | - | - | - | - | - | - |

**Supplementary Table 3.** Main proteins in STRING interactions with a subset of selected secreted proteins from *F. verticillioides* (DA42).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **gene name** | **protein** | **stringId** | **annotation** | **Gene name** | **stringId** | **score** | **Protein names** |
| FVEG\_13935 | XP\_018762357 | 334819.A0A139YBL9 | FAD dependent oxidoreductase domain-containing protein | FVEG\_03983 | 334819.W7LTY4 | 0.713 | DASH complex subunit SPC19 (Outer kinetochore protein SPC19) |
| FVEG\_02338 | 334819.W7LJJ9 | 0.705 | Glycine cleavage system H protein |
| FVEG\_06633 | 334819.W7MMZ9 | 0.705 | Glycine cleavage system H protein |
| FVEG\_02337 | 334819.W7M3V6 | 0.701 | Glycine cleavage system P protein (EC 1.4.4.2) |
| FVEG\_06405 | 334819.W7MDL7 | 0.642 | Spindle pole body component |
| FVEG\_00878 | 334819.W7LX51 | 0.62 | Methylenetetrahydrofolate dehydrogenase [NAD(+)] (EC 1.5.1.15) |
| FVEG\_09630 | 334819.W7MHT7 | 0.608 | DASH complex subunit DAD2 (Outer kinetochore protein DAD2) |
| FVEG\_12150 | 334819.W7N0W4 | 0.571 | DASH complex subunit DAM1 (Outer kinetochore protein DAM1) |
| FVEG\_02585 | 334819.W7LKR4 | 0.554 | Serine hydroxymethyltransferase (EC 2.1.2.1) |
| FVEG\_02339 | 334819.W7LVX0 | 0.554 | Serine hydroxymethyltransferase (EC 2.1.2.1) |
| FVEG\_03246 | XP\_018747256 | 334819.W7LR99 | G-patch domain-containing protein | FVEG\_08262 | 334819.W7MBZ1 | 0.987 | Cell cycle control protein cwf14 |
| FVEG\_01430 | 334819.W7LF49 | 0.986 | Pre-mRNA-splicing factor clf-1 |
| FVEG\_03791 | 334819.W7M2L0 | 0.971 | Elongation factor 2 |
| FVEG\_09212 | 334819.W7MPY9 | 0.955 | Pre-mRNA-splicing factor spp42 |
| FVEG\_09474 | 334819.W7MQZ0 | 0.954 | Anaphase-promoting complex subunit 4-like WD40 domain |
| FVEG\_04224 | 334819.W7M4H1 | 0.942 | U2 small nuclear ribonucleoprotein A' |
| FVEG\_10476 | 334819.W7MJI0 | 0.924 | Pre-mRNA-splicing factor SYF1 (Pre-mRNA-splicing factor syf1) |
| FVEG\_05253 | 334819.W7LXQ4 | 0.913 | Pre-mRNA-splicing factor SYF2 |
| FVEG\_07868 | 334819.W7M8J0 | 0.908 | Splicing factor YJU2 |
| FVEG\_01212 | 334819.W7LQ92 | 0.897 | Sm protein B |
| FVEG\_00028 | XP\_018742012 | 334819.W7LTB5 | Major facilitator superfamily (MFS) profile domain-containing protein | FVEG\_04927 | 334819.W7M7A8 | 0.342 | Glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12) |
| FVEG\_11098 | 334819.W7MWZ5 | 0.289 | Phosphopantothenoylcysteine decarboxylase |
| FVEG\_00804 | 334819.W7LNI3 | 0.286 | mRNA 3'-end-processing protein RNA14 |
| FVEG\_04687 | 334819.W7M651 | 0.286 | 2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.12) |
| FVEG\_01159 | 334819.W7LQ36 | 0.283 | 2,3-bisphosphoglycerate-independent phosphoglycerate mutase (EC 5.4.2.12) |
| FVEG\_04599 | 334819.W7LWH5 | 0.277 | Nucleoside diphosphate kinase (EC 2.7.4.6) |
| FVEG\_08735 | XP\_018755318 | 334819.W7MCA2 | Major facilitator superfamily (MFS) profile domain-containing protein | FVEG\_07352 | 334819.W7MHX8 | 0.335 | Uncharacterized protein |
| FVEG\_01463 | 334819.W7LI48 | 0.257 | SnoaL-like domain-containing protein |
| FVEG\_10084 | 334819.W7MGZ3 | 0.249 | Gpi-anchored protein |
| FVEG\_14849 | 334819.W7M007 | 0.247 | L-dopachrome isomerase (EC 5.3.2.1) (EC 5.3.3.12) |
| FVEG\_16012 | 334819.W7MGI2 | 0.246 | DUF2415 domain-containing protein |
| FVEG\_06112 | 334819.W7MKQ2 | 0.223 | DUF2415 domain-containing protein |
| FVEG\_06550 | 334819.W7ME81 | 0.213 | Zn(2)-C6 fungal-type domain-containing protein |
| FVEG\_17448 | 334819.W7MU61 | 0.21 | F-box domain-containing protein |
| FVEG\_02771 | 334819.W7LXV8 | 0.205 | F-box domain-containing protein |
| FVEG\_02376 | 334819.W7LW18 | 0.181 | Acetyl-CoA transporter |
| FVEG\_09361 | XP\_018756214 | 334819.W7MEN7 | feruloyl esterase (EC 3.1.1.73) | FVEG\_16566 | 334819.W7MQL8 | 0.372 | AB hydrolase-1 domain-containing protein |
| FVEG\_05363 | 334819.W7M9X5 | 0.277 | Oxidoreductase |
| FVEG\_02675 | 334819.W7LNV1 | 0.272 | Aldehyde dehydrogenase |
| FVEG\_06733 | 334819.W7MND6 | 0.272 | Aldehyde dehydrogenase domain-containing protein |
| FVEG\_10644 | 334819.W7MVN0 | 0.272 | Aldehyde dehydrogenase domain-containing protein |
| FVEG\_01702 | 334819.W7LIZ4 | 0.272 | Aldehyde dehydrogenase |
| FVEG\_10643 | 334819.W7MVC5 | 0.271 | Extradiol ring-cleavage dioxygenase class III enzyme subunit B domain |
| FVEG\_09411 | 334819.W7MR24 | 0.269 | aldehyde dehydrogenase (NAD(+)) (EC 1.2.1.3) |
| FVEG\_02451 | 334819.W7M4A2 | 0.269 | Zn(2)-C6 fungal-type domain-containing protein |
| FVEG\_06508 | 334819.W7MDY9 | 0.269 | aldehyde dehydrogenase (NAD(+)) (EC 1.2.1.3) |
| FVEG\_05849 | XP\_018751073 | 334819.W7MJP3 | Agglutinin-like protein 2 | FVEG\_04117 | 334819.W7LSL8 | 0.812 | B30.2/SPRY domain-containing protein |
| FVEG\_00682 | 334819.W7LMZ5 | 0.802 | Uncharacterized protein |
| FVEG\_08130 | 334819.W7MBB6 | 0.788 | COMPASS component SDC1 |
| FVEG\_07117 | 334819.W7M708 | 0.774 | Uncharacterized protein |
| FVEG\_06109 | 334819.W7MKP6 | 0.716 | PH domain-containing protein |
| FVEG\_07811 | 334819.W7MJH0 | 0.716 | Histone-lysine N-methyltransferase, H3 lysine-4 specific (EC 2.1.1.354) |
| FVEG\_07326 | 334819.W7M7X6 | 0.571 | Transcriptional adapter 2-alpha |
| FVEG\_00630 | 334819.W7LMU0 | 0.567 | Actin-related protein 4 |
| FVEG\_11384 | 334819.W7MMM5 | 0.541 | DM2 domain-containing protein |
| FVEG\_07033 | 334819.W7MML3 | 0.469 | Histone H4 |
| FVEG\_10795 | XP\_018758142 | 334819.W7MLJ0 | Pectinesterase (EC 3.1.1.11) | FVEG\_08451 | 334819.W7MCP5 | 0.933 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| FVEG\_11787 | 334819.W7NA23 | 0.933 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| FVEG\_08734 | 334819.W7MXM7 | 0.915 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_13516 | 334819.W7N632 | 0.913 | endo-polygalacturonase (EC 3.2.1.15) (Pectinase) |
| FVEG\_11233 | 334819.W7MN59 | 0.909 | Pectate lyase domain-containing protein |
| FVEG\_03818 | 334819.W7LRH8 | 0.909 | pectate lyase (EC 4.2.2.2) |
| FVEG\_12279 | 334819.W7N1B7 | 0.909 | pectate lyase (EC 4.2.2.2) |
| FVEG\_09387 | 334819.W7MGQ3 | 0.905 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_10101 | 334819.W7MTD1 | 0.903 | pectate lyase (EC 4.2.2.2) |
| FVEG\_10862 | 334819.W7MLS5 | 0.901 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_09702 | XP\_018756690 | 334819.W7MRY6 | Pectin lyase (EC 4.2.2.10) | FVEG\_10535 | 334819.W7N4R1 | 0.387 | Uncharacterized protein |
| FVEG\_01690 | 334819.W7LGE0 | 0.358 | Iron transport multicopper oxidase FET3 |
| FVEG\_01770 | 334819.W7LSX5 | 0.341 | Glucanase (EC 3.2.1.-) |
| FVEG\_11600 | 334819.W7MPV6 | 0.336 | Expansin-like EG45 domain-containing protein |
| FVEG\_10241 | 334819.W7MTU1 | 0.336 | Expansin-like EG45 domain-containing protein |
| FVEG\_12563 | 334819.W7N2G8 | 0.336 | Pisatin demethylase |
| FVEG\_04458 | 334819.W7M558 | 0.309 | MFS transporter, SIT family, siderophore-iron:H+ symporter |
| FVEG\_06206 | 334819.W7M350 | 0.287 | Calmodulin |
| FVEG\_07574 | 334819.W7M7F0 | 0.287 | Uncharacterized protein |
| FVEG\_07362 | 334819.W7MRC4 | 0.287 | Calmodulin |
| FVEG\_13183 | XP\_018761329 | 334819.W7MUF4 | Cell wall glycosyl hydrolase YteR | FVEG\_12180 | 334819.W7N0X5 | 0.366 | SGNH hydrolase-type esterase domain-containing protein |
| FVEG\_00136 | 334819.W7LTR0 | 0.361 | SGNH hydrolase-type esterase domain-containing protein |
| FVEG\_03522 | 334819.W7LQF7 | 0.36 | Uncharacterized protein |
| FVEG\_13757 | 334819.W7N6S9 | 0.341 | SGNH hydrolase-type esterase domain-containing protein |
| FVEG\_05696 | 334819.W7MAU3 | 0.296 | Sulfatase N-terminal domain-containing protein |
| FVEG\_08588 | 334819.W7MMG8 | 0.296 | Zn(2)-C6 fungal-type domain-containing protein |
| FVEG\_16305 | 334819.W7MW47 | 0.296 | Sulfatase N-terminal domain-containing protein |
| FVEG\_10001 | 334819.W7MGS8 | 0.296 | Sulfatase N-terminal domain-containing protein |
| FVEG\_00102 | 334819.W7LKF3 | 0.296 | Sulfatase N-terminal domain-containing protein |
| FVEG\_09578 | 334819.W7MHH9 | 0.296 | Choline-sulfatase |
| FVEG\_09388 | XP\_018756247 | 334819.W7N040 | D/NAD(P)-binding domain-containing protein. | FVEG\_04071 | 334819.W7M3P7 | 0.336 | Tyrosinase copper-binding domain-containing protein |
| FVEG\_08860 | 334819.W7ME88 | 0.336 | FAD-binding PCMH-type domain-containing protein |
| FVEG\_02919 | 334819.W7M6P3 | 0.336 | Methyltransferase |
| FVEG\_06165 | 334819.W7M2U8 | 0.336 | Methyltransferase domain-containing protein |
| LAE1 | 334819.W7LAD1 | 0.331 | Secondary metabolism regulator LAE1 (EC 2.1.1.-) |
| FUS7 | 334819.W7MWX4 | 0.33 | Putative aldehyde dehydrogenase FUS7 (EC 1.2.1.3) |
| FUS5 | 334819.W7MWX7 | 0.311 | Esterase FUS5 (EC 3.1.2.-) (Fusarin biosynthesis protein 5) |
| FVEG\_15504 | 334819.W7M5Y4 | 0.276 | TauD/TfdA-like domain-containing protein |
| FVEG\_04736 | 334819.W7MED9 | 0.276 | trimethyllysine dioxygenase (EC 1.14.11.8) |
| FVEG\_07548 | 334819.W7MIL5 | 0.276 | TauD/TfdA-like domain-containing protein |
| FVEG\_03005 | XP\_018746906.1 | 334819.W7LZI8 | Protein SnodProt1 | FVEG\_00750 | 334819.W7LBK3 | 0.354 | Elongin-C |
| FVEG\_05429 | 334819.W7LYE3 | 0.243 | Uncharacterized protein |
| FVEG\_04213 | 334819.W7LTA5 | 0.243 | Major histocompatibility complex, class I |
| FVEG\_00181 | 334819.W7LBP4 | 0.242 | Mitochondrial 40S ribosomal protein MRP2 |
| FVEG\_09167 | 334819.W7MQ27 | 0.223 | RING-box protein 1 |
| FVEG\_00621 | 334819.W7LVZ1 | 0.191 | Transcription initiation factor TFIID subunit 9 |
| FVEG\_05820 | 334819.W7MBD8 | 0.186 | non-specific serine/threonine protein kinase (EC 2.7.11.1) |
| FVEG\_06407 | 334819.W7M419 | 0.173 | Bms1-type G domain-containing protein |
| FVEG\_01096 | 334819.W7LPT4 | 0.171 | Ubiquitin-conjugating enzyme E2C-binding protein |
| FVEG\_07614 | 334819.W7M7J3 | 0.171 | BAR domain-containing protein |
| FVEG\_05642 | XP\_018750821 | 334819.W7MAL2 | Chitin-binding type-4 domain-containing protein | FVEG\_12434 | 334819.W7MRR1 | 0.224 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_03519 | 334819.W7M1N7 | 0.221 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_08734 | 334819.W7MXM7 | 0.205 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_09387 | 334819.W7MGQ3 | 0.2 | Pectate lyase (EC 4.2.2.2) |
| FVEG\_09149 | XP\_018755879 | 334819.W7MDP1 | Peroxidase (EC 1.11.1.-) | FVEG\_04068 | 334819.W7LU87 | 0.723 | Ribonuclease H2 subunit B (Ribonuclease HI subunit B) |
| FVEG\_00724 | 334819.W7LWI4 | 0.605 | Ribonuclease (EC 3.1.26.4) |
| FVEG\_01355 | 334819.W7LHJ0 | 0.448 | F-actin-capping protein subunit beta |
| FVEG\_04864 | 334819.W7M791 | 0.433 | GTPase-activating protein GYP7 (GAP for YPT7) |
| FVEG\_06157 | 334819.W7M172 | 0.334 | GTPase-activating protein beta-chimerin |
| FVEG\_05294 | 334819.W7LXW4 | 0.333 | Alpha-actinin |
| FVEG\_09191 | 334819.W7MFR1 | 0.333 | CRIB domain-containing protein |
| FVEG\_05170 | 334819.W7MGL3 | 0.319 | Bicarbonate transporter-like transmembrane domain |
| FVEG\_14576 | 334819.W7LK77 | 0.319 | Bicarbonate transporter-like transmembrane domain |
| FVEG\_02190 | 334819.W7LV02 | 0.319 | Bicarbonate transporter-like transmembrane domain |
| FVEG\_04647 | EWG42982 | 334819.W7ME03 | Necrosis inducing protein | FVEG\_04937 | 334819.W7M7C5 | 0.49 | Cytochrome c oxidase subunit |
| FVEG\_02595 | 334819.W7M563 | 0.446 | Uncharacterized protein |
| cox3 | 334819.H6D5G9 | 0.437 | Cytochrome c oxidase subunit 3 |
| cox2 | 334819.H6D5F6 | 0.436 | Cytochrome c oxidase subunit 2 |
| FVEG\_09751 | 334819.W7MFY5 | 0.435 | Cytochrome c oxidase subunit 8, mitochondrial |
| FVEG\_02487 | 334819.W7M4D9 | 0.431 | Cytochrome c oxidase subunit 6a |
| FVEG\_07914 | 334819.W7M8Q0 | 0.415 | Cytochrome c oxidase subunit 6, mitochondrial |
| FVEG\_08991 | 334819.W7MEW5 | 0.406 | Uncharacterized protein |
| FVEG\_08989 | 334819.W7MNZ2 | 0.406 | Cytochrome c oxidase subunit 4, mitochondrial |
| FVEG\_11349 | 334819.W7MY15 | 0.384 | Cytochrome c oxidase polypeptide V |