**Table S1**. GO annotation of assembled contigs. Totally. 71.271 contigs were classified into three main categories and 46 subcategories.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Categories** | **GO ID** | **Subcategories** | **Number of unigenes** | **Percent of unigenes** |
| Biological process | GO:0009987 | Cellular process | 8764 | 22.3 |
|  | GO:0008152 | Metabolic process | 8456 | 21.5 |
|  | GO:0044699 | Single-organism process | 5633 | 14.4 |
|  | GO:0065007 | Biological regulation | 4128 | 10.5 |
|  | GO:0050896 | Response to stimulus | 2878 | 7.3 |
|  | GO:0023052 | Signaling | 2244 | 5.7 |
|  | GO:0051179 | Localization | 2032 | 5.2 |
|  | GO:0032501 | Multicellular organismal process | 1413 | 3.6 |
|  | GO:0032502 | Developmental process | 1336 | 3.4 |
|  | GO:0071840 | Cellular component organization or biogenesis | 1194 | 3.0 |
|  | GO:0002376 | Immune system process | 326 | 0.8 |
|  | GO:0040011 | Locomotion | 263 | 0.7 |
|  | GO:0022610 | Biological adhesión | 216 | 0.6 |
|  | GO:0040007 | Growth | 172 | 0.4 |
|  | GO:0051704 | Multi-organism process | 82 | 0.2 |
|  | GO:0000003 | Reproduction | 54 | 0.1 |
|  | GO:0048511 | Rhythmic process | 31 | 0.1 |
|  | GO:0001906 | Cell killing | 27 | 0.1 |
| Cellular component | GO:0005623 | Cell | 4865 | 34.5 |
|  | GO:0016020 | Membrane | 3298 | 23.4 |
|  | GO:0043226 | Organelle | 3215 | 22.8 |
|  | GO:0032991 | Macromolecular complex | 1572 | 11.1 |
|  | GO:0005576 | Extracellular región | 513 | 3.6 |
|  | GO:0031974 | Membrane-enclosed lumen | 312 | 2.2 |
|  | GO:0031012 | Extracellular matrix | 157 | 1.1 |
|  | GO:0030054 | Cell junction | 127 | 0.9 |
|  | GO:0045202 | Synapse | 43 | 0.3 |
|  | GO:0019012 | Virion | 17 | 0.1 |
|  | GO:0009295 | Nucleoid | 2 | 0.0 |
| Molecular function | GO:0005488 | Binding | 8031 | 44.9 |
|  | GO:0003824 | Catalytic activity | 6155 | 34.4 |
|  | GO:0005215 | Transporter activity | 864 | 4.8 |
|  | GO:0060089 | Molecular transducer activity | 796 | 4.4 |
|  | GO:0004872 | Receptor activity | 627 | 3.5 |
|  | GO:0001071 | Nucleic acid binding transcription factor activity | 506 | 2.8 |
|  | GO:0030234 | Enzyme regulator activity | 407 | 2.3 |
|  | GO:0005198 | Structural molecule activity | 296 | 1.7 |
|  | GO:0000988 | Protein binding transcription factor activity | 107 | 0.6 |
|  | GO:0009055 | Electron carrier activity | 62 | 0.3 |
|  | GO:0016209 | Antioxidant activity | 31 | 0.2 |
|  | GO:0045182 | Translation regulator activity | 7 | 0.0 |
|  | GO:0016247 | Channel regulator activity | 5 | 0.0 |
|  | GO:0031386 | Protein tag | 3 | 0.0 |
|  | GO:0042056 | Chemoattractant activity | 2 | 0.0 |
|  | GO:0045499 | Chemorepellent activity | 1 | 0.0 |
|  | GO:0016530 | Metallochaperone activity | 1 | 0.0 |