

blast2go Uses Homologs to Assign Putative GO Terms

The screenshot displays the Blast2GO V.2.6.0 interface. The main window shows a table of sequence annotations with columns for sequence name, description, length, and GO IDs. The log window at the bottom shows application messages, including BLAST results and project loading information.

| nr | sequence name | seq description | length | #... | min. eValue | sim mean | #G... | GO IDs | Enzyme | InterPro |
|----|------------------|-----------------------------|--------|------|-------------|----------|-------|---|--------|----------|
| 1 | LongOrf.asmb1... | ---NA--- | 102 | 0 | - | - | 0 | | | |
| 2 | LongOrf.asmb1... | ah1 protein | 199 | 20 | 4.1E-53 | 60.7% | 12 | C:cytoplasmic membrane-bounded vesicle; C:endocytic vesicle membrane; P:endocytosis; C:cytoplasm; P:regulation of nitric-oxide synthase activity; P:nitric oxide metabolic process; F:protein binding; C:plasma membrane; C:cytoskeleton; F:molecular_function; P:biological_process; C:cellular_component | | |
| 3 | LongOrf.asmb1... | yth domain family protein 3 | 170 | 20 | 3.7E-78 | 85.95% | 3 | F:molecular_function; P:biological_process; C:cellular_component | | |
| 4 | LongOrf.asmb1... | contactin associated 2 | 104 | 20 | 7.4E-46 | 78.5% | 20 | P:neuron recognition; P:clustering of voltage-gated potassium channels; P:limbic system development; P:vocalization behavior; C:dendrite; P:neuron projection development; C:voltage-gated potassium channel complex; P:thalamus development; C:cell surface; F:enzyme binding; P:striatum development; C:early endosome; C:juxtaparanode region of axon; P:cell adhesion; C:axolemma | | |

Application Messages Log:

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13:03 BLAST result added to sequence: LongOrf.asmb1_90536-gene_cluster_75902.scaffold_998.12
13:03 BLAST result added to sequence: LongOrf.asmb1_90532-gene_cluster_75898.scaffold_998.8
13:03 BLAST result added to sequence: LongOrf.asmb1_90511-gene_cluster_75888.scaffold_997.12
13:03 BLAST result added to sequence: LongOrf.asmb1_90550-gene_cluster_75913.scaffold_998.26
13:03 BLAST result added to sequence: LongOrf.asmb1_90537-gene_cluster_75902.scaffold_998.13
13:03 BLAST result added to sequence: LongOrf.asmb1_90529-gene_cluster_75898.scaffold_998.5
13:03 BLAST result added to sequence: LongOrf.asmb1_90551-gene_cluster_75914.scaffold_998.27
13:03 BLAST result added to sequence: LongOrf.asmb1_90541-gene_cluster_75906.scaffold_998.17
13:03 BLAST result added to sequence: LongOrf.asmb1_90527-gene_cluster_75897.scaffold_998.3
13:03 The project contains now 19280 sequences.
13:03 DONE
13:05 create new Project
13:05 Loading project form file: blast2go_20121015_1650.dat
13:05 set new Project
13:05 37781 GO-Terms loaded.
    
```

Memory usage: 1383MB of 4983MB

Memory usage: 66MB of 4983MB

19,399 transcripts

18,649 homologs

15,857 annotated