Table S5 – Performance of OrtSuite in functional annotation of the Test\_genome\_set using four different e-value cutoffs (1e-04,1e-06,1e-09,1e-16). Values represent the percentage of KEGG annotations in the Test genome set confirmed by OrtSuite.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| E-value | 1e-04 | 1e-06 | 1e-09 | 1e-16 |
| *Acinetobacter defluvii* WCHA30 | 100 | 100 | 100 | 100 |
| *Arabidopsis thaliana* | 100 | 100 | 100 | 100 |
| *Azoarcus sp.* KH32C | 100 | 100 | 100 | 100 |
| *Azoarcus sp*. DN11 | 100 | 100 | 100 | 100 |
| *Azoarcus sp.* CIB | 100 | 100 | 100 | 100 |
| *Burkholderia cepacia* DDS 7H-2 | 88.88 | 88.88 | 88.88 | 88.88 |
| *Burkholderia vietnamiensis* G4 | 90.90 | 90.90 | 86.36 | 86.36 |
| *Cycloclasticus sp.* P1 | 86.66 | 86.66 | 86.66 | 86.66 |
| *Cycloclasticus zancles* 78-ME | 87.5 | 87.5 | 87.5 | 87.5 |
| *Desulfosporosinus orientis* DSM 765 | 92.30 | 92.30 | 92.30 | 92.30 |
| *Aromatoleum aromaticum* EbN1 | 100 | 100 | 100 | 100 |
| *Latimeria chalumnae* (coelacanth) | 100 | 100 | 100 | 100 |
| *Magnetospirillum sp.* XM-1 | 100 | 100 | 100 | 100 |
| *Paraburkholderia aromaticivorans* BN5 | 100 | 100 | 100 | 100 |
| *Rhodococcus ruber* P14 | 100 | 100 | 100 | 100 |
| *Sulfuritalea hydrogenivorans* sk43H | 100 | 100 | 100 | 100 |
| *Staphylococcus sciuri* FDAARGOS 285 | 85.71 | 85.71 | 71.42 | 85.71 |
| *Thauera sp.* MZ1T | 100 | 100 | 100 | 100 |
| **Average** | **96.22** | **96.22** | **95.18** | **95.96** |