**Table S1. General features of strain 159 genome in comparison to other *Aeromonas* species using RAST server**. Four closely-related *Aeromonas* species, *A. veronii* AER39 *A. veronii* AMC34, *A. hydrophila* ATCC 7066 and *A. hydrophila* SNUFPC-A8 were used for comparison.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature** | **Strain 159** | **AMC34** | **AER39** | **ATCC7966** | **SNUFPC-A8** |
| Genome size (Mbp) | 3.36 | 4.54 | 4.39 | 4.74 | 4.97 |
| Number of contigs | 125 | 24 | 36 | 1 | 41 |
| GC content | 59.3 | 58.5 | 58.9 | 61.5 | 60.8 |
| CDs | 3094 | 4102 | 3948 | 4255 | 4516 |
| Number of RNAs | 49 | 96 | 131 | 158 | 91 |
| Subsystem category (count/%) |  |  |  |  |  |
| Carbohydrates  | 260 /12.1 | 458/13.3 | 416/12.4 | 463/12.8 | 459/12.3 |
| Amino acids & derivatives | 296/13.8 | 498/14.4 | 484/14.4 | 515/14.2 | 519/13.9 |
| Protein metabolism | 176/8.2 | 295/8.5 | 254/7.6 | 310/8.6 | 315/8.5 |
| RNA metabolism | 115/5.4 | 235/6.8 | 232/6.9 | 249/6.9 | 239/6.4 |
| Cofactors, vitamins, prosthetic groups, pigments | 142/6.6 | 283/8.2 | 285/8.5 | 301/8.3 | 304/8.2 |