**S1 Table.** **General characteristics of the *Thiomonas* genomes.** Calculation of repetitive regions did not include undetermined (‘N’) bases. The genome size and gene content range from 3.4 Mb and 4, 367 CDS (K12) to 4.3 Mb and 4, 508 CDS (CB3). *Thiomonas* sp. CB3 also has a higher proportion of repetitive regions (19.21%). The others general features are similar between the strains.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Genome characteristics** | **CB2** | **3As** | **CB1** | **CB3** | **CB6** | **ACO3** | **ACO7** | **K12** |
| Size (bp) | 3872510 | 3738778 | 3880244 | 4323494 | 3861602 | 3673425 | 3730618 | 3396378 |
| GC-content (%) | 63.67 | 63.8 | 63.8 | 63.93 | 63.83 | 63.8 | 63.78 | 63.88 |
| Predicted CDS | 3820 | 3631 | 3927 | 4508 | 3880 | 3628 | 3680 | 3467 |
| Genome coding (%) | 91.23 | 90.19 | 91.75 | 91.64 | 92.04 | 92.95 | 9181 | 90.11 |
| Average CDS size (bp) | 917.51 | 956.15 | 918.52 | 887.02 | 920.4 | 929.49 | 929.18 | 927.59 |
| Number of tRNA | 45 | 43 | 44 | 43 | 44 | 42 | 42 | 45 |
| ORF of unknown function  (%) | 1192  (31.20) | 939  (25.86) | 1238 (31,53) | 1514 (33.58) | 1212 (31.24) | 1097 (30.24) | 1130 (3071) | 218  (6.29%) |
| Repetitive regions (%) | 6.31 | 7.26 | 7.3 | 19.21 | 7.52 | 3.11 | 5.04 | 4.86 |