### Table S3

| Genome            | Completeness | Contamination | Genome            | Completeness | Contamination |
|-------------------|--------------|---------------|-------------------|--------------|---------------|
| gb2_2_bin.60.fa   | 85.73        | 0.8           | Pf11_bin.25.fa    | 86.8         | 0.99          |
| Pf4_bin.57.fa     | 82.8         | 4.53          | Aply16_bin.9.fa   | 95.44        | 0.99          |
| Pf7_bin.11.fa     | 96.0         | 4.58          | gb278_bin.73.fa   | 91.55        | 0.0           |
| Pf5_bin.33.fa     | 79.62        | 0.83          | gb278_bin.64.fa   | 88.67        | 0.0           |
| Pf12_bin.26.fa    | 87.6         | 5.25          | gb4_2_bin.32.fa   | 93.95        | 0.0           |
| gb5_6_f_bin.4.fa  | 94.29        | 1.18          | Pf8_bin.20.fa     | 96.59        | 0.0           |
| gb10_f_bin.41.fa  | 90.26        | 1.71          | Aply16_bin.3.fa   | 96.59        | 0.0           |
| gb_f_9_bin.4 фа  | 90.26        | 0.0           | Pf9_bin.30.fa     | 94.61        | 0.0           |
| gb5_6_f_bin.16.fa | 93.49        | 1.08          | Pf10_bin.13.fa    | 81.65        | 0.0           |
| gb10_f_bin.38.fa  | 94.76        | 4.82          | Aply22_bin.4.fa   | 86.69        | 0.0           |
| Pf7_bin.57.fa     | 92.57        | 0.04          | Pf4_bin.24.fa     | 95.73        | 1.71          |
| Pf9_bin.46.fa     | 93.73        | 0.68          | gb1_bin.31.fa     | 90.26        | 2.56          |
| Pf5_bin.30.fa     | 97.07        | 0.34          | gb126_bin.75.fa   | 89.46        | 1.71          |
| gb5_6_f_bin.55.fa | 87.01        | 2.24          | gb8_2_bin.30.fa   | 93.07        | 0.0           |
| Pf4_bin.22.fa     | 89.08        | 0.0           | gb126_bin.35.fa   | 77.59        | 0.0           |
| Pf5_bin.48.fa     | 93.89        | 1.1           | gb5_2_bin.68.fa   | 92.02        | 0.0           |
| gb305_bin.41.fa   | 93.34        | 3.85          | Pf10_bin.11.fa    | 98.29        | 2.56          |
| Pf10_bin.43.fa    | 95.54        | 3.3           | gb278_bin.39.fa   | 90.12        | 2.28          |
| gb5_6_f_bin.58.fa | 95.54        | 3.3           | gb126_bin.36.fa   | 76.84        | 0.43          |
| gb10_f_bin.37.fa  | 98.47        | 2.2           | gb305_bin.7.fa    | 90.46        | 7.26          |
| Pf9_bin.12.fa     | 92.12        | 1.1           | gb7_bin.42.fa     | 94.98        | 3.42          |
| gb7_bin.51.fa     | 95.54        | 2.2           | gb7_bin.28.fa     | 83.52        | 0.9           |
| Pf8_bin.23.fa     | 100.0        | 3.36          | Pf8_bin.46.fa     | 90.81        | 0.85          |
| Pf9_bin.53.fa     | 90.11        | 2.75          | gb126_bin.28_fa   | 80.79        | 6.03          |
| gb4_2_bin.61.fa   | 77.59        | 0.0           | Pf5_bin.39.fa     | 89.79        | 1.88          |
| Pf11_bin.3.fa     | 83.82        | 2.2           | gb6_bin.52.fa     | 84.62        | 0.85          |
| gb305_bin.78.fa   | 92.86        | 3.3           | Pf4_bin.17.fa     | 91.83        | 0.85          |
| Aply22_bin.19.fa  | 75.34        | 3.45          | gb5_2_bin.9.fa    | 93.59        | 2.56          |
| Pf10_bin.2.fa     | 97.8         | 3.3           | Pf11_bin.39.fa    | 93.16        | 1.03          |
| gb8_2_bin.8.fa    | 89.41        | 4.46          | gb7_bin.52.fa     | 81.39        | 1.07          |
| gb305_bin.35.fa   | 95.6         | 3.3           | gb305_bin.22.fa   | 75.86        | 0.0           |
| gb3_2_bin.69.fa   | 96.7         | 0.0           | gb126_bin.47.fa   | 80.89        | 1.76          |
| Pf5_bin.5.fa      | 97.74        | 1.1           | gb305_bin.51.fa   | 89.9         | 3.42          |
| Pf9_bin.15.fa     | 97.74        | 0.0           | Pf5_bin.19.fa     | 82.76        | 0.0           |
| Pf12_bin.20.fa    | 96.64        | 0.55          | Pf7_bin.19.fa     | 87.98        | 1.71          |
| gb305_bin.13.fa   | 95.6         | 0.3           | Aply16_bin.4.fa   | 79.33        | 1.93          |
| File                  | Similarity | Identity | File                  | Similarity | Identity |
|----------------------|------------|----------|----------------------|------------|----------|
| Pf7_bin.67.fa        | 97.8       | 0.3      | gb126_bin.26.fa      | 92.9       | 2.74     |
| gb10_bin.62.fa       | 93.34      | 1.1      | gb126_bin.18.fa      | 78.32      | 1.71     |
| Pf7_bin.5.fa         | 91.14      | 0.0      | Pf5_bin.57.fa        | 95.85      | 1.82     |
| gb3_2_bin.44.fa      | 82.13      | 2.26     | gb8_2_bin.43.fa      | 86.0       | 0.91     |
| Pf7_bin.59.fa        | 96.09      | 1.4      | Aply22_bin.37.fa     | 95.85      | 2.73     |
| gb1_bin.4.fa         | 86.16      | 2.2      | gb5_2_bin.13.fa      | 87.98      | 0.85     |
| Aply21_bin.5.fa      | 81.59      | 2.5      | gb305_bin.19.fa      | 94.34      | 1.28     |
| gb_2_f_bin.4.fa      | 83.52      | 0.0      | Pf4_bin.21.fa        | 93.16      | 3.42     |
| Pf12_bin.35.fa       | 96.58      | 1.64     | gb5_2_bin.32.fa      | 95.73      | 1.71     |
| Pf7_bin.14.fa        | 93.5       | 0.56     | gb278_bin.63.fa      | 93.16      | 2.56     |
| Aply22_bin.9.fa      | 94.92      | 1.13     | Pf12_bin.44.fa       | 82.82      | 1.73     |
| Pf7_bin.31.fa        | 93.48      | 1.98     | Pf11_bin.13.fa       | 96.59      | 1.68     |
| gb278_bin.3.f        | 94.33      | 1.13     | Aply16_bin.23.fa     | 95.75      | 1.68     |
| Pf4_bin.44.fa        | 92.92      | 1.13     | gb1_bin.7.fa         | 93.22      | 0.84     |
| Pf12_bin.28.fa       | 98.39      | 0.54     | gb5_2_bin.46.fa      | 80.25      | 0.0      |
| sw_9_bin.4.fa        | 75.33      | 0.54     | gb5_2_bin.36.fa      | 91.55      | 2.52     |
| sw_9_bin.11.fa       | 92.03      | 3.76     | gb278_bin.37.fa      | 92.51      | 1.68     |
| Aply22_bin.13.fa     | 97.06      | 0.0      | gb3_2_bin.16.fa      | 91.34      | 3.36     |
| sw_9_bin.14.fa       | 84.93      | 1.75     | Pf11_bin.31.fa       | 93.23      | 3.36     |
| sw_8_bin.5.fa        | 95.06      | 1.53     | gb5_6_f_bin.30.fa    | 86.68      | 1.31     |
| gb5_6_f_bin.25.fa    | 93.55      | 2.66     | gb10_f_bin.32.fa     | 75.69      | 0.89     |
| Pf7_bin.52.fa        | 91.83      | 1.33     | gb_1_f_bin.35.fa     | 88.19      | 2.37     |
| gb4_2_bin.25.fa      | 84.45      | 5.49     | Pf9_bin.23.fa        | 84.67      | 0.0      |
| gb3_2_bin.45.fa      | 80.16      | 3.3      | Pf12_bin.13.fa       | 90.18      | 0.0      |
| Pf8_bin.6.fa         | 96.64      | 3.6      | Pf6_bin.41.fa        | 88.34      | 0.0      |
| Pf5_bin.13.fa        | 95.48      | 4.7      | Pf5_bin.15.fa        | 80.06      | 1.79     |
| Pf5_bin.31.fa        | 94.34      | 2.2      | Aply22_bin.15.fa     | 90.34      | 0.43     |
| gb4_2_bin.48.fa      | 79.06      | 0.0      | sw_7_bin.3.fa        | 94.82      | 0.58     |
| Aply22_bin.11.fa     | 97.58      | 2.25     | gb_f_9_bin.8.fa      | 99.53      | 0.94     |
| gb4_2_bin.50.fa      | 86.22      | 1.23     | sw_7_bin.7.fa        | 96.08      | 0.06     |
| Pf8_bin.49.fa        | 87.68      | 6.74     | gb_f_9_bin.7.fa      | 100.0      | 0.0      |
| Pf10_bin.3.fa        | 94.24      | 4.4      | Aply23_bin.14.fa     | 84.44      | 0.43     |
| Pf12_bin.33.fa       | 97.48      | 4.9      | Pf4_bin.61.fa        | 92.38      | 0.8      |
| gb5_2_bin.34.fa      | 77.82      | 2.25     | gb305_bin.70.fa      | 95.71      | 1.28     |
| gb2_2_bin.46.fa      | 76.66      | 1.1      | gb5_6_f_bin.54.fa    | 81.26      | 3.44     |
| Pf9_bin.24.fa        | 80.73      | 2.25     | Aply22_bin.39.fa     | 87.21      | 1.88     |
| Pf5_bin.52.fa        | 93.09      | 4.49     | sw_9_bin.8.fa        | 98.17      | 1.24     |
| Aply23_bin.19.fa     | 96.46      | 3.37     | sw_9_bin.6.fa        | 96.58      | 0.44     |
| File Name    | Similarity | Identity | Target File  | Similarity | Identity |
|-------------|------------|----------|--------------|------------|----------|
| Pf9_bin.10.fa | 93.14      | 4.4      | sw_7_bin.14.fa | 84.38      | 2.18     |
| Pf5_bin.37.fa | 82.75      | 0.0      | sw_7_bin.8.fa  | 87.83      | 1.64     |
| Pf5_bin.4.fa  | 95.38      | 5.49     | Aply16_bin.13.fa | 82.87      | 1.51     |
| Aply16_bin.2.fa | 96.36     | 3.37     | Pf9_bin.57.fa  | 99.0       | 0.0      |
| gb7_bin.5.fa  | 84.35      | 2.2      | Aply22_bin.45.fa | 92.74      | 0.5      |
| Pf9_bin.14.fa | 97.42      | 4.49     | gb278_bin.18.fa | 93.64      | 0.5      |
| Pf11_bin.65.fa | 95.34     | 4.4      | Pf7_bin.61.fa  | 92.45      | 0.79     |
| Pf4_bin.36.fa | 97.74      | 0.0      | gb2_2_bin.49.fa | 88.09      | 0.03     |
| Aply23_bin.13.fa | 97.15   | 0.0      | Aply22_bin.44.fa | 75.74      | 2.17     |
| gb126_bin.52.fa | 83.86    | 0.85     | gb5_6_f_bin.61.fa | 88.59      | 1.27     |
| Pf11_bin.32.fa | 90.02      | 1.28     | gb305_bin.21.fa | 96.23      | 0.43     |
| gb10_f_bin.14.fa | 78.82   | 1.3      | gb8_2_bin.68.fa  | 89.37      | 0.52     |
| gb10_f_bin.44.fa | 99.15     | 2.23     | Pf11_bin.50.fa  | 96.96      | 0.43     |
| gb305_bin.8.fa  | 86.32      | 2.31     | gb8_2_bin.1.fa  | 95.02      | 0.17     |
| Pf7_bin.64.fa  | 98.29      | 2.14     | Pf4_bin.37.fa  | 94.43      | 0.5      |
| Aply22_bin.36.fa | 92.31     | 2.14     | sw_7_bin.10.fa  | 99.0       | 0.03     |
| Aply22_bin.5.fa  | 83.05      | 2.99     | Aply16_bin.21.fa | 95.38      | 0.0      |
| gb8_2_bin.58.fa | 90.6       | 1.28     | gb278_bin.34.fa | 94.54      | 0.0      |
| Pf9_bin.45.fa  | 94.44      | 1.28     | Pf9_bin.40.fa  | 94.42      | 0.84     |
| Pf6_bin.60.fa  | 96.58      | 1.28     | Pf10_bin.9.fa  | 96.1       | 0.0      |
| Aply16_bin.8.fa | 80.12      | 3.5      | gb5_2_bin.33.fa | 94.42      | 1.22     |
| Aply23_bin.11.fa | 88.89   | 2.35     | gb_f_9_bin.17.fa | 82.63      | 2.17     |
| Pf9_bin.13.fa  | 92.74      | 2.14     | gb5_6_f_bin.31.fa | 80.99      | 1.22     |
| Pf10_bin.8.fa  | 95.73      | 1.28     | gb_f_3_bin.30.fa | 89.02      | 0.61     |
| gb5_6_f_bin.18.fa | 81.03     | 1.28     | Pf4_bin.35.fa  | 77.69      | 1.09     |
| gb_f_9_bin.31.fa | 97.34     | 0.85     | gb305_bin.15.fa | 80.29      | 3.43     |
| gb10_f_bin.45.fa | 90.5       | 2.14     | gb7_bin.36.fa  | 75.56      | 1.61     |
| Aply23_bin.8.fa | 96.15      | 1.28     | gb305_bin.79.fa | 87.2       | 0.41     |
| gb5_2_bin.28.fa | 92.99      | 1.28     | Pf8_bin.36.fa  | 78.45      | 3.3      |
| Aply22_bin.47.fa | 88.89     | 1.28     | gb278_bin.45.fa | 85.61      | 3.76     |
| gb5_2_bin.63.fa | 93.16      | 1.28     | Pf8_bin.5.fa   | 86.0       | 5.11     |
| gb5_2_bin.60.fa | 81.48      | 1.28     | gb_1_f_bin.10.fa | 97.51      | 0.59     |
| Pf7_bin.8.fa  | 89.32      | 0.43     | Pf9_bin.9.fa   | 84.94      | 7.84     |
| Aply22_bin.32.fa | 94.87     | 1.57     | gb9_bin.59.fa  | 79.71      | 1.99     |
| Pf10_bin.10.fa | 92.12      | 0.0      | Pf5_bin.16.fa  | 90.23      | 1.72     |
| gb126_bin.71.fa | 83.64      | 1.16     | gb_f_9_bin.12.fa | 79.38      | 0.0      |
| gb126_bin.20.fa | 81.36      | 0.91     | gb_2_f_bin.27.fa | 78.37      | 0.33     |
| Aply22_bin.17.fa | 97.27     | 1.82     | gb_f_9_bin.10.fa | 82.9       | 0.45     |
| File               | ID   | Similarity | File             | ID   | Similarity |
|--------------------|------|------------|------------------|------|------------|
| Aply22_bin.16.fa   | 90.76| 1.98       | gb8_2_bin.5.fa   | 90.17| 0.0        |
| gb278_bin.49.fa    | 80.27| 0.0        | gb5_2_bin.42.fa  | 91.96| 0.0        |
| gb278_bin.16.fa    | 82.64| 9.11       | gb3_2_bin.9.fa   | 97.69| 0.0        |
| gb126_bin.45.fa    | 75.74| 8.03       | gb126_bin.48.fa  | 89.77| 0.99       |
| gb7_bin.2.fa       | 79.67| 0.0        | gb278_bin.59.fa  | 81.63| 0.0        |
| gb305_bin.37.fa    | 87.1 | 0.0        | gb1_bin.54.fa    | 90.76| 0.0        |
| Pf7_bin.54.fa      | 89.77| 0.5        | gb5_2_bin.54.fa  | 86.8 | 0.0        |
| gb126_bin.67.fa    | 92.5 | 0.0        | Pf7_bin.34.fa    | 82.18| 1.98       |