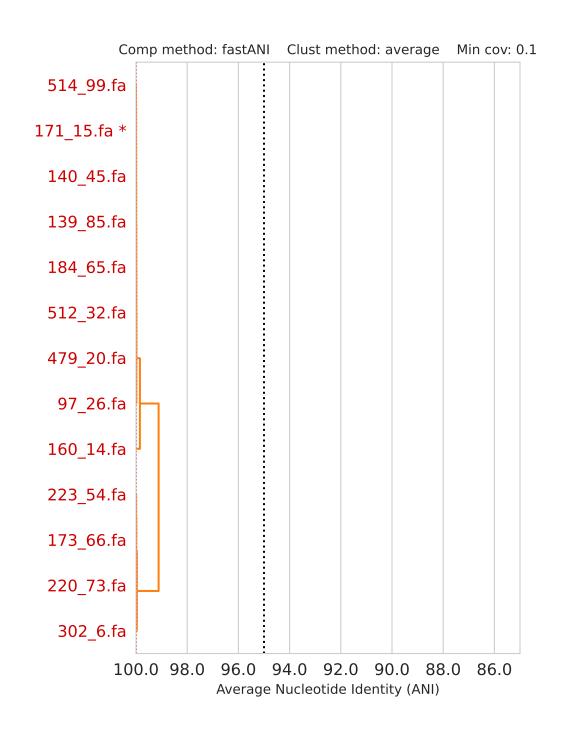
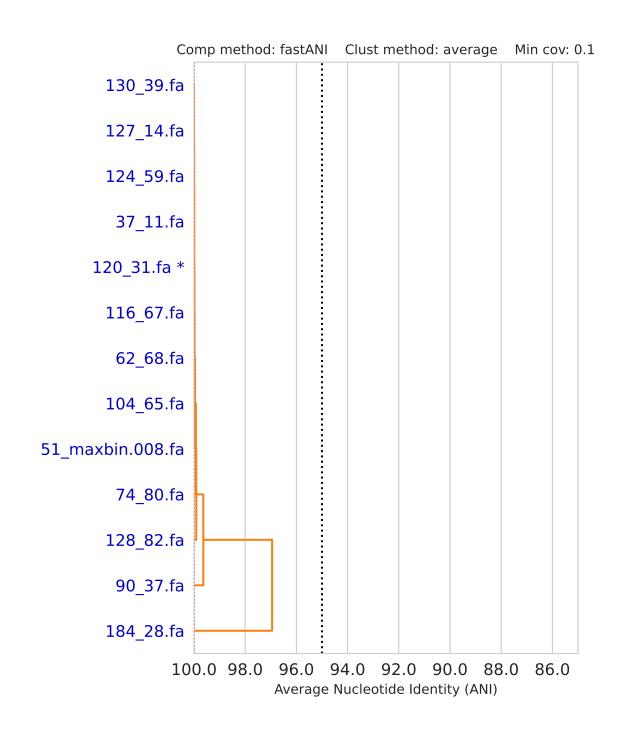


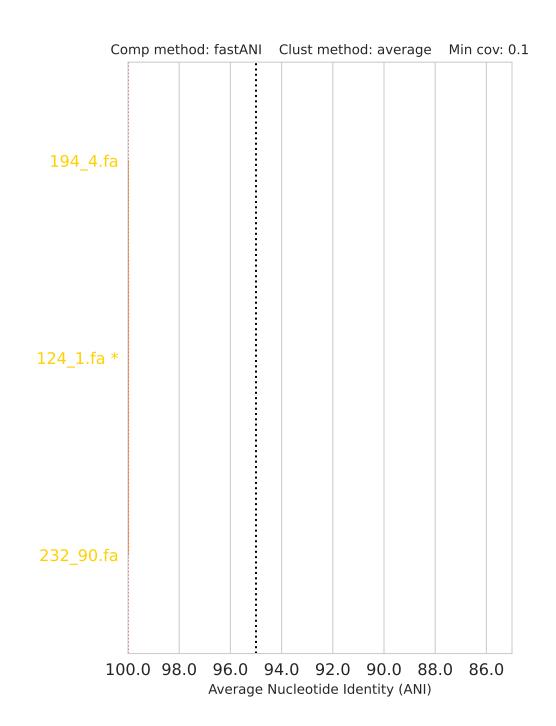
97\_41.fa

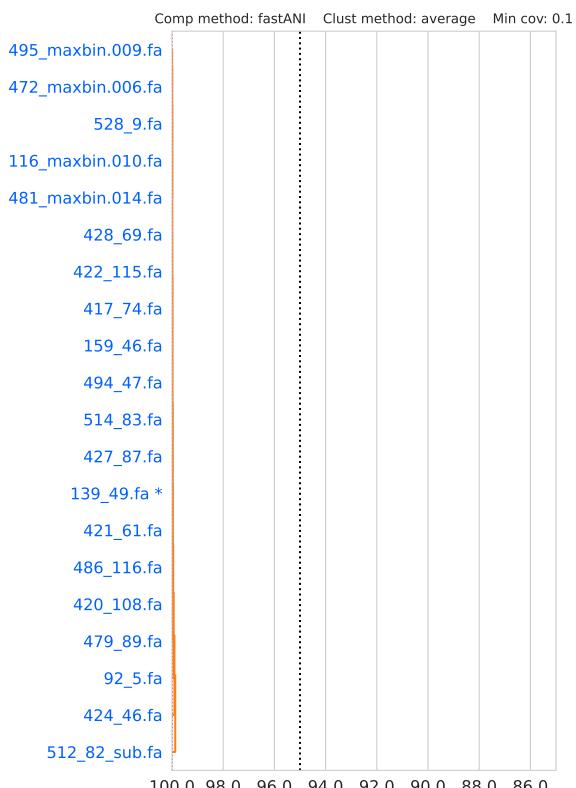
Comp method: fastANI Clust method: average Min cov: 0.1

| 97_41.fa                      |                                   |     |
|-------------------------------|-----------------------------------|-----|
| 8_53.fa                       |                                   |     |
| 84_24.fa<br>22_122.fa         |                                   |     |
| 180_35.fa                     |                                   |     |
| 48_114.fa                     |                                   |     |
| 134_48.fa                     |                                   |     |
| 460_26.fa<br>6_118.fa         |                                   |     |
| 34_94.fa                      |                                   |     |
| 159_maxbin.005_sub.fa         |                                   |     |
| 424_maxbin.010_sub.fa         |                                   |     |
| 194_12.fa<br>175_17.fa        |                                   |     |
| 374_70.fa                     |                                   |     |
| 29_10.fa                      |                                   |     |
| 90_39.fa                      |                                   |     |
| 46_70.fa<br>235_37.fa         |                                   |     |
| 92_62.fa                      |                                   |     |
| 514_103.fa                    |                                   |     |
| 83_39.fa                      |                                   |     |
| 36_59_sub.fa                  |                                   |     |
| 7_86.fa<br>481_4.fa           |                                   |     |
| 495_98.fa                     |                                   |     |
| 20_87.fa                      |                                   |     |
| 166_37.fa                     |                                   |     |
| 140_1.fa<br>428_81.fa         |                                   |     |
| 232_83.fa                     |                                   |     |
| 188_38.fa                     |                                   |     |
| 448_41.fa                     |                                   |     |
| 234_35.fa                     |                                   |     |
| 31_38.fa<br>199_74.fa         |                                   |     |
| 420_78.fa                     |                                   |     |
| 417_96.fa                     |                                   |     |
| 494_14.fa                     |                                   |     |
| 499_maxbin.011.fa<br>43_3.fa  |                                   |     |
| 43_3.1a<br>486_44.fa          |                                   |     |
| 30_21.fa                      |                                   |     |
| 179_41.fa                     |                                   |     |
| 49_78.fa<br>47_116.fa         |                                   |     |
| 47_110.fa<br>427_81.fa        |                                   |     |
| 573_94.fa *                   |                                   |     |
| 287_47.fa                     |                                   |     |
| 504_13.fa                     |                                   |     |
| 158_44.fa<br>39_maxbin.006.fa |                                   |     |
| -<br>479_70.fa                |                                   |     |
| 422_59.fa                     |                                   |     |
| 252_8.fa                      |                                   |     |
| 421_45.fa<br>302_20.fa        |                                   |     |
| 91_53.fa                      |                                   |     |
| 174_44.fa                     |                                   |     |
| 52_41.fa                      |                                   |     |
| 220_29.fa<br>212_43.fa        |                                   |     |
| 472_86_sub.fa                 |                                   |     |
| 26_15.fa                      |                                   |     |
| 223_maxbin.012_sub.fa         |                                   |     |
| 144_24.fa                     |                                   |     |
| 423_24.fa<br>227_50.fa        |                                   |     |
| 251_17.fa                     |                                   |     |
| 121_56.fa                     |                                   |     |
| 216_35.fa                     |                                   |     |
| 146_24.fa<br>157_10.fa        |                                   |     |
| 130_125.fa                    |                                   |     |
| 503_48.fa                     |                                   |     |
| 27_1.fa                       |                                   |     |
| 164_47.fa<br>137_78.fa        |                                   |     |
| 145_61.fa                     |                                   |     |
| 128_7.fa                      |                                   |     |
| 116_25.fa                     |                                   |     |
| 512_85_sub.fa                 |                                   |     |
| 155_46.fa<br>259_37_sub.fa    |                                   |     |
| 204_102.fa                    |                                   |     |
| 44_70.fa                      |                                   |     |
| 294_43.fa<br>119_10.fa        |                                   |     |
| 42_maxbin.007.fa              |                                   |     |
| 113_42.fa                     |                                   |     |
| 40_22.fa                      |                                   |     |
| 507_20.fa<br>41_58_sub.fa     |                                   |     |
| 102_2.fa                      |                                   |     |
| 24_28.fa                      |                                   |     |
| 115_59.fa                     |                                   |     |
| 3_18.fa                       |                                   |     |
| 50_81.fa<br>506_51.fa         |                                   |     |
| -<br>38_3.fa                  |                                   |     |
| 358_maxbin.010.fa             |                                   |     |
| 456_28.fa                     |                                   |     |
| 540_75.fa                     |                                   |     |
| 28_32.fa<br>74_72.fa          |                                   |     |
| 106_64.fa                     |                                   |     |
| 86_10.fa                      |                                   |     |
| 66_40.fa                      |                                   |     |
| 528_25.fa<br>371_8.fa         |                                   |     |
| 103_20.fa                     |                                   |     |
| 444_68.fa                     |                                   |     |
| 139_30.fa                     |                                   |     |
| 17_41.fa<br>445_50.fa         |                                   |     |
| 445_50.1a<br>10_18.fa         |                                   |     |
| 23_maxbin.010.fa              |                                   |     |
| 19_77.fa                      |                                   |     |
| 451_49.fa<br>500_32.fa        |                                   |     |
|                               |                                   | 5.0 |
|                               | Average Nucleotide Identity (ANI) |     |
|                               |                                   |     |

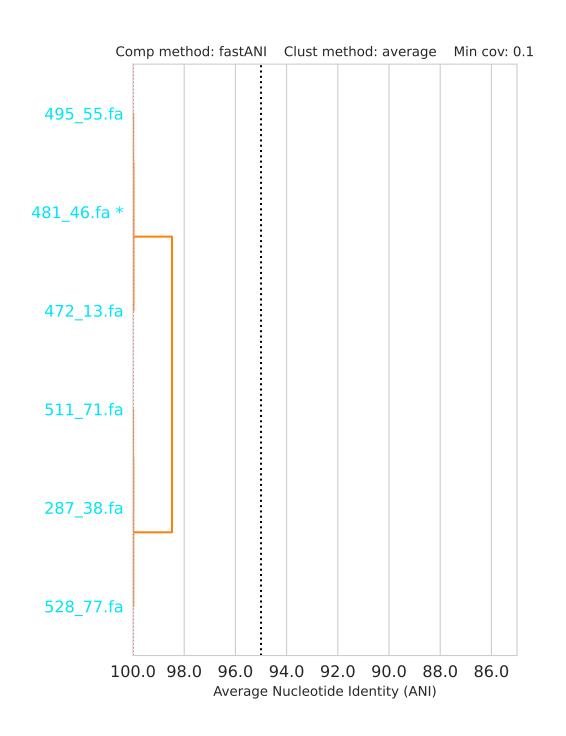


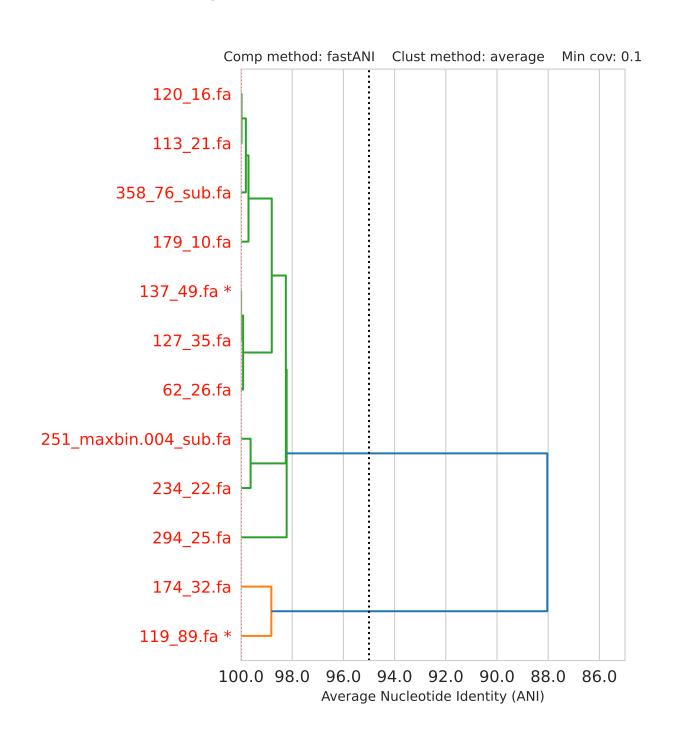


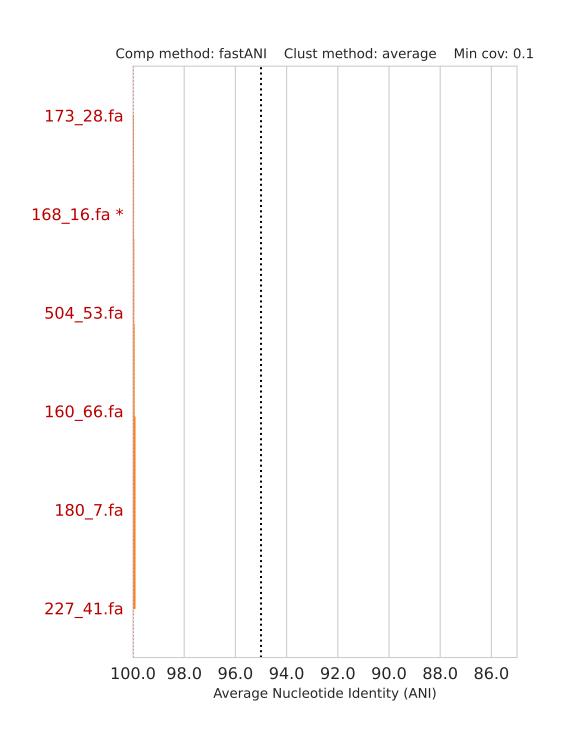


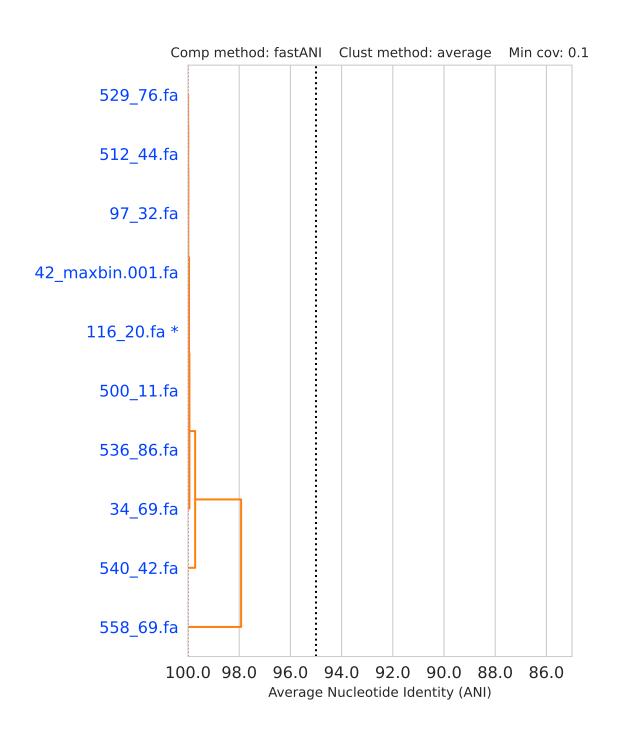


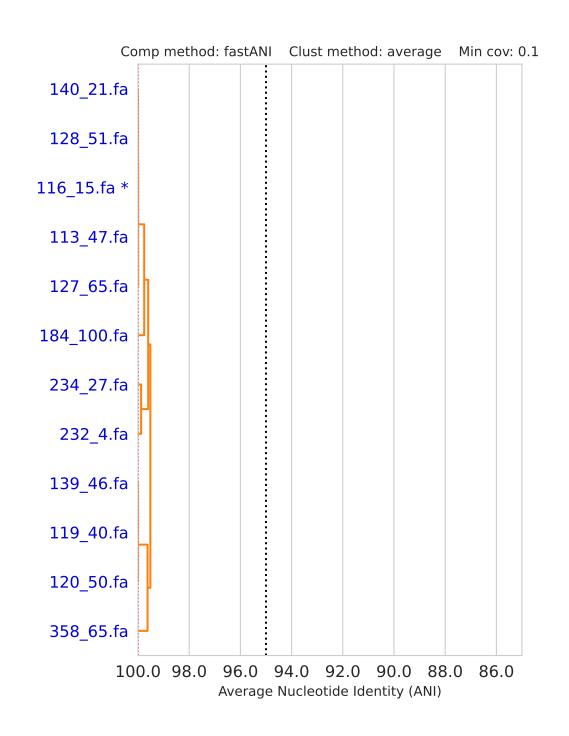
100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

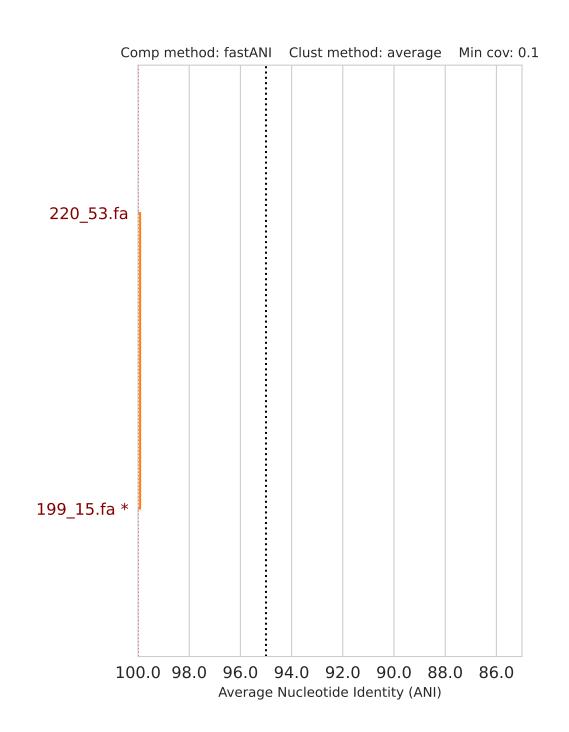


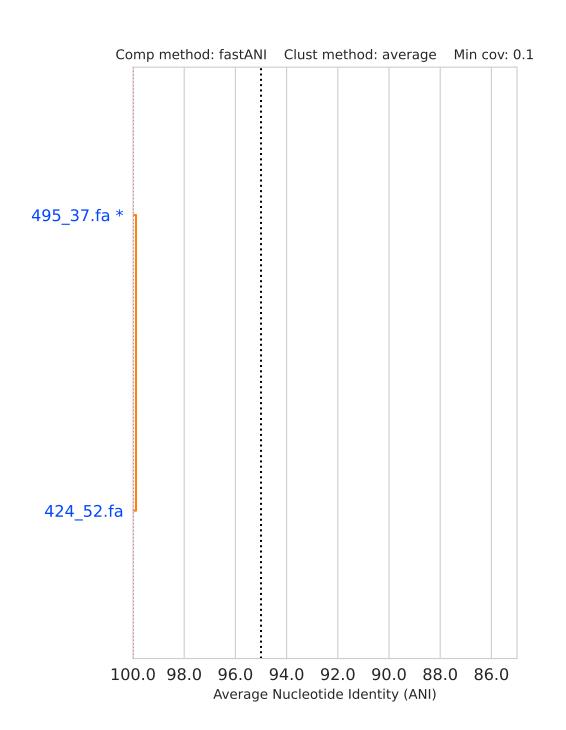






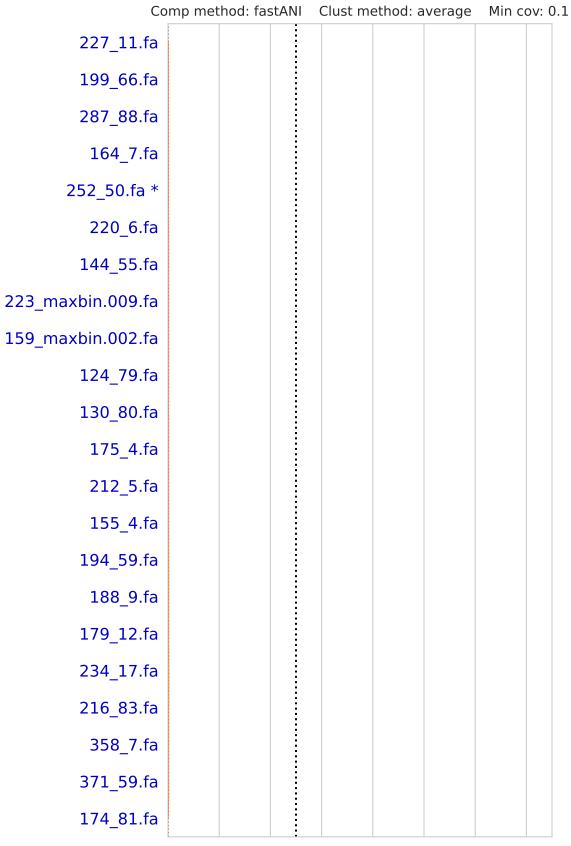




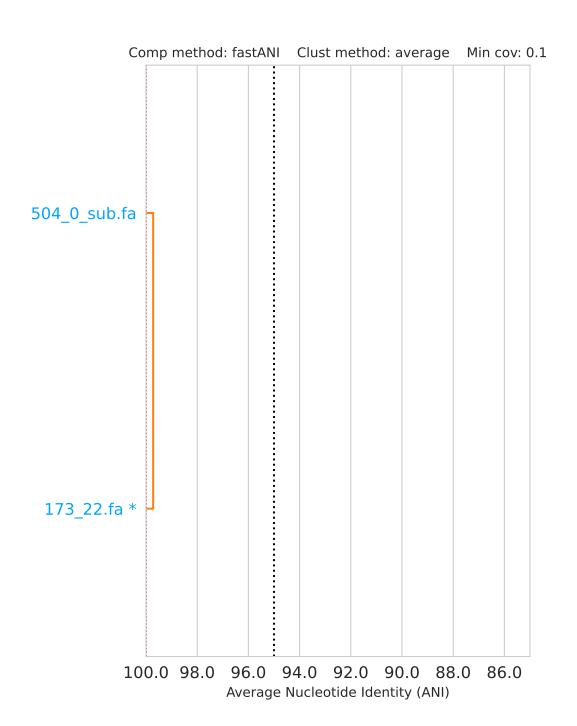


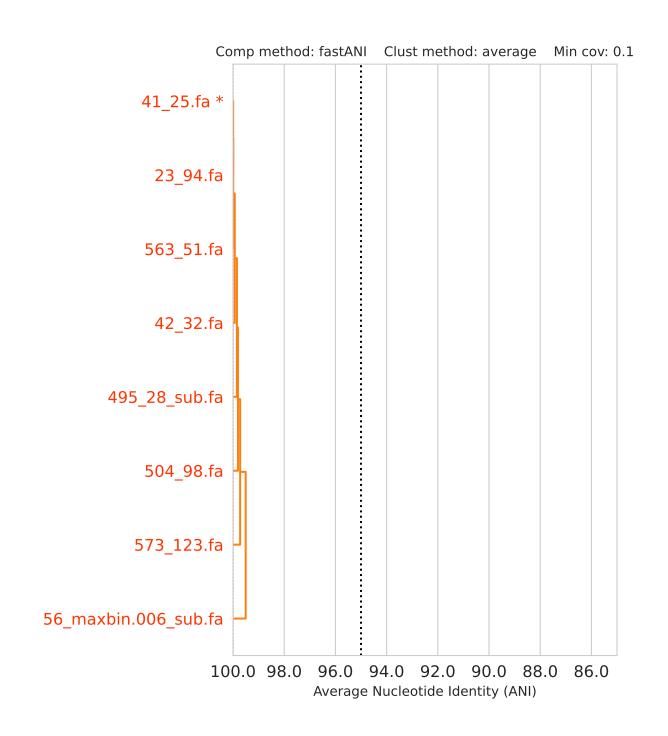
| Co                          | mp met | thod: fas | stANI | Clust me | ethod: a | verage | Min c | ov: 0.1 |
|-----------------------------|--------|-----------|-------|----------|----------|--------|-------|---------|
| 448_39.fa                   |        |           | :     |          |          |        |       |         |
| 251_maxbin.003.fa           |        |           |       |          |          |        |       |         |
| 495_108.fa                  |        |           |       |          |          |        |       |         |
| 567_17.fa                   |        |           |       |          |          |        |       |         |
| 428_41.fa                   |        |           |       |          |          |        |       |         |
| 451_7.fa                    |        |           |       |          |          |        |       |         |
| 424_51.fa                   |        |           |       |          |          |        |       |         |
| 427_88.fa                   |        |           |       |          |          |        |       |         |
| 462_15.fa                   |        |           |       |          |          |        |       |         |
| 460_47.fa                   |        |           |       |          |          |        |       |         |
| 472_maxbin.013.fa           |        |           |       |          |          |        |       |         |
| 235_30.fa                   |        |           |       |          |          |        |       |         |
| 486_111.fa *                |        |           |       |          |          |        |       |         |
| 573_28.fa                   |        |           |       |          |          |        |       |         |
| 302_15.fa                   |        |           |       |          |          |        |       |         |
| 259_maxbin.006.fa           |        |           |       |          |          |        |       |         |
| 459_38.fa                   |        |           |       |          |          |        |       |         |
| 463_45.fa                   |        |           |       |          |          |        |       |         |
| 420_36.fa                   |        |           |       |          |          |        |       |         |
| 481_maxbin.003.fa           |        |           |       |          |          |        |       |         |
| 449_91.fa                   |        |           |       |          |          |        |       |         |
| 494_2.fa                    |        |           |       |          |          |        |       |         |
| 456_61.fa                   |        |           |       |          |          |        |       |         |
| 450_120.fa                  |        |           |       |          |          |        |       |         |
| 50_40.fa                    |        |           |       |          |          |        |       |         |
| 38_57.fa                    |        |           |       |          |          |        |       |         |
| 29_maxbin.008.fa            |        |           |       |          |          |        |       |         |
| 42_maxbin.003.fa            |        |           |       |          |          |        |       |         |
| 40_maxbin.004.fa            |        |           |       |          |          |        |       |         |
| 30_48.fa                    |        |           |       |          |          |        |       |         |
| 12_32.fa                    |        |           |       |          |          |        |       |         |
| 9_59.fa                     |        |           |       |          |          |        |       |         |
| 500_20.fa                   |        |           |       |          |          |        |       |         |
| 41_maxbin.012.fa<br>3_48.fa |        |           |       |          |          |        |       |         |
| 3_48.1a<br>23_maxbin.016.fa |        |           |       |          |          |        |       |         |
| 43_25.fa                    |        |           |       |          |          |        |       |         |
| 43_23.1a<br>444_35.fa       |        |           |       |          |          |        |       |         |
| 166_64.fa                   |        |           |       |          |          |        |       |         |
| 36_maxbin.007.fa            |        |           |       |          |          |        |       |         |
| 563_10.fa                   |        |           |       |          |          |        |       |         |
| 14_19.fa                    |        |           |       |          |          |        |       |         |
|                             |        |           |       |          |          |        |       |         |

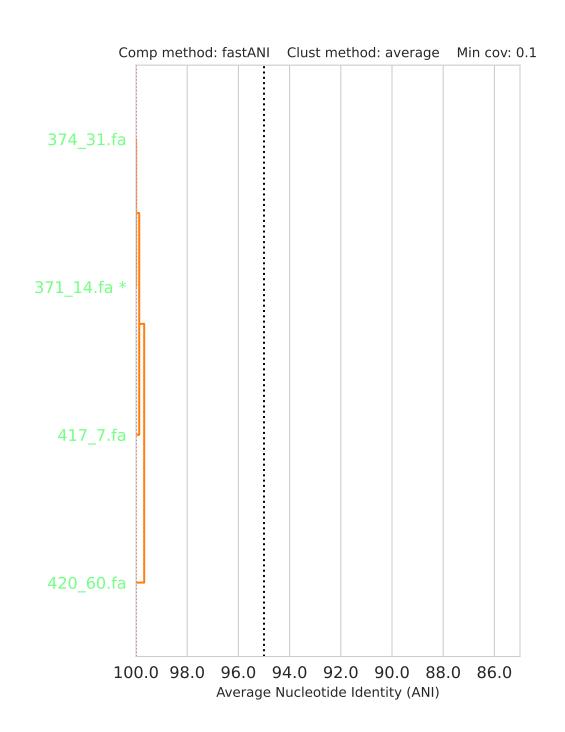
100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

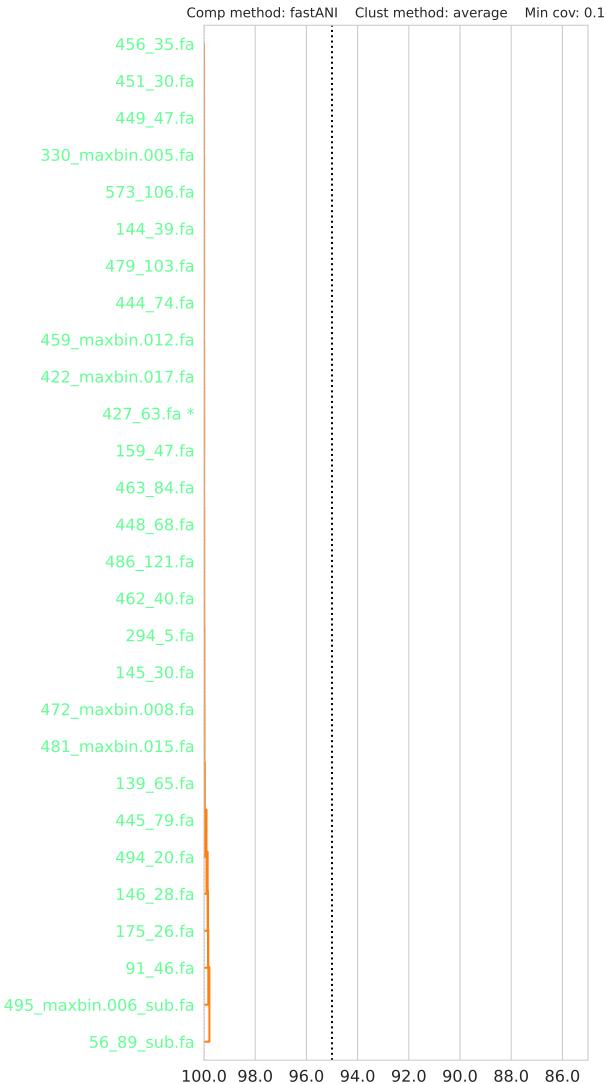


100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

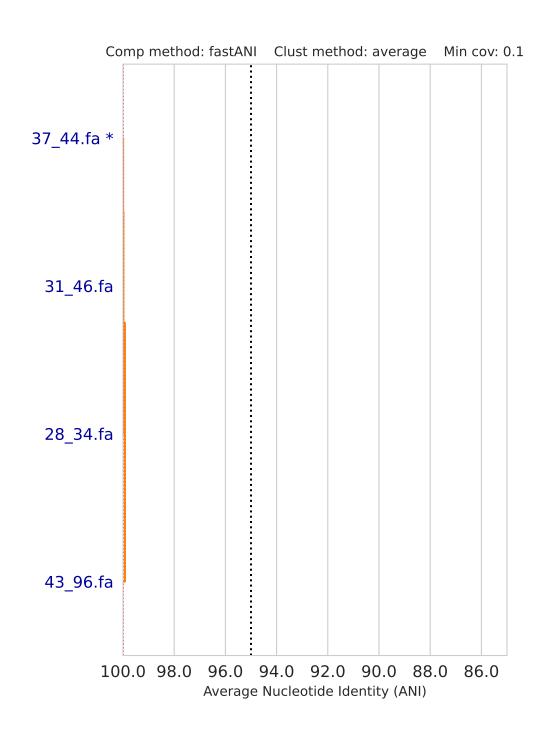








L00.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

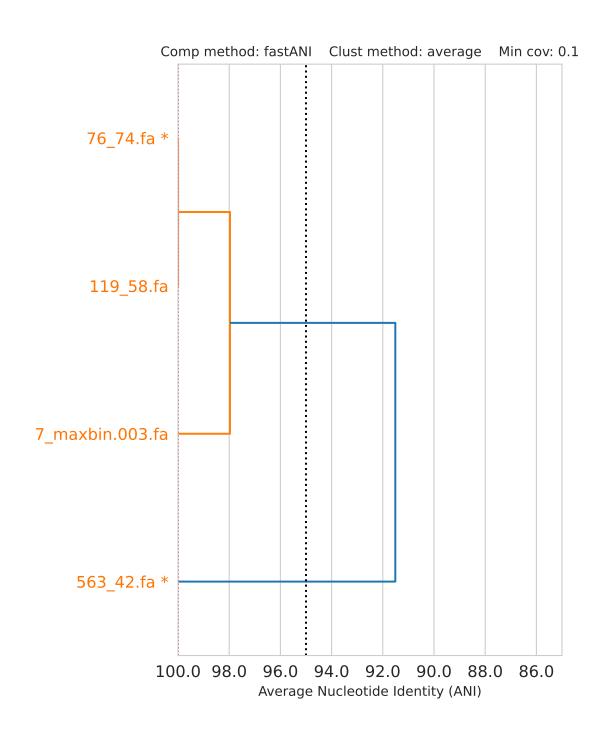


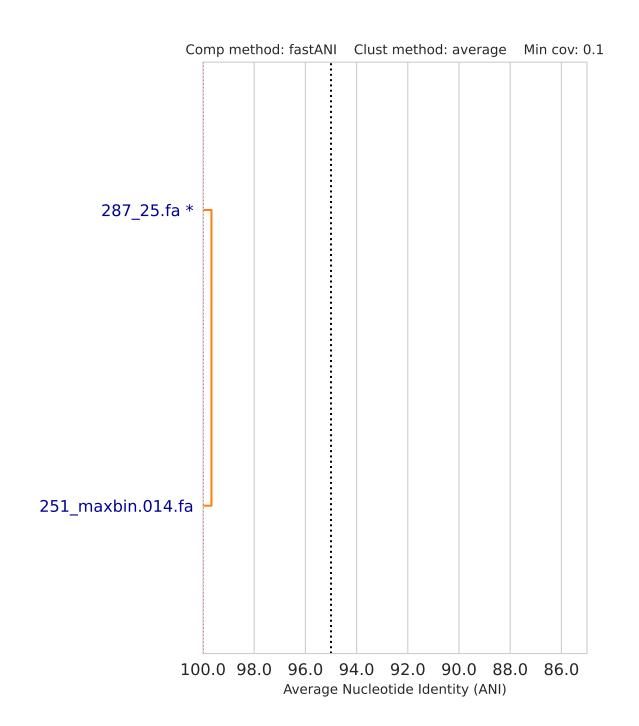
| Со                   | mp met | hod: fas | stANI | Clust m | ethod: a | verage | Min co | ov: 0 |
|----------------------|--------|----------|-------|---------|----------|--------|--------|-------|
| 77_23.fa             |        |          | i     |         |          |        |        |       |
| 102_67.fa            |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 98_17.fa             |        |          |       |         |          |        |        |       |
| 83_34.fa             |        |          |       |         |          |        |        |       |
| 134_20.fa            |        |          |       |         |          |        |        |       |
| 540_13.fa            |        |          |       |         |          |        |        |       |
| 212_75.fa            |        |          |       |         |          |        |        |       |
| 234_9.fa             |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 66_37.fa             |        |          |       |         |          |        |        |       |
| 7_66_sub.fa          |        |          |       |         |          |        |        |       |
| 97_17.fa             |        |          |       |         |          |        |        |       |
| 94_38.fa             |        |          |       |         |          |        |        |       |
| 25_70.fa             |        |          |       |         |          |        |        |       |
| 160_36.fa            |        |          |       |         |          |        |        |       |
| 8_14.fa              |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 99_43.fa             |        |          |       |         |          |        |        |       |
| 506_45.fa            |        |          |       |         |          |        |        |       |
| 52_maxbin.008.fa     |        |          |       |         |          |        |        |       |
| 179_73.fa            |        |          |       |         |          |        |        |       |
| 103_78.fa            |        |          |       |         |          |        |        |       |
| 119_87.fa *          |        |          |       |         |          |        |        |       |
| 259_7.fa             |        |          |       |         |          |        |        |       |
| 120_38.fa            |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 42_48.fa             |        |          |       |         |          |        |        |       |
| 199_maxbin.003.fa    |        |          |       |         |          |        |        |       |
| 22_3.fa              |        |          |       |         |          |        |        |       |
| 227_maxbin.009.fa    |        |          |       |         |          |        |        |       |
| 90_23.fa             |        |          |       |         |          |        |        |       |
| 194_maxbin.005.fa    |        |          |       |         |          |        |        |       |
| 116_maxbin.005.fa    |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 105_72.fa            |        |          |       |         |          |        |        |       |
| 62_38.fa             |        |          |       |         |          |        |        |       |
| 2_55.fa              |        |          |       |         |          |        |        |       |
| 51_38.fa             |        |          |       |         |          |        |        |       |
| 38_82.fa             |        |          |       |         |          |        |        |       |
| 499_66_sub.fa        |        |          |       |         |          |        |        |       |
| 48_maxbin.008_sub.fa |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 47_52.fa             |        |          |       |         |          |        |        |       |
| 34_99.fa             |        |          |       |         |          |        |        |       |
| 287_92.fa            |        |          |       |         |          |        |        |       |
| 82_21.fa             |        |          |       |         |          |        |        |       |
| 6_93.fa              |        |          |       |         |          |        |        |       |
| 29_43.fa             |        |          |       |         |          |        |        |       |
| 216_79.fa            |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 92_55.fa             |        |          |       |         |          |        |        |       |
| 80_44.fa             |        |          |       |         |          |        |        |       |
| 36_80.fa             |        |          |       |         |          |        |        |       |
| 223_3.fa             |        |          |       |         |          |        |        |       |
| 23_36.fa             |        |          |       |         |          |        |        |       |
| 174_7.fa             |        |          |       |         |          |        |        |       |
| 50_22.fa             |        |          |       |         |          |        |        |       |
| 26_23.fa             |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 12_62.fa             |        |          |       |         |          |        |        |       |
| 44_66.fa             |        |          |       |         |          |        |        |       |
| 3_59_sub.fa          |        |          |       |         |          |        |        |       |
| 204_79.fa            |        |          |       |         |          |        |        |       |
| 106_16.fa            |        |          |       |         |          |        |        |       |
| 232_47.fa            |        |          |       |         |          |        |        |       |
| 166_6.fa             |        |          |       |         |          |        |        |       |
| 115_51.fa            |        |          |       |         |          |        |        |       |
| 30_66.fa             |        |          |       |         |          |        |        |       |
| 95_22.fa             |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| <b>56_8.fa</b>       |        |          |       |         |          |        |        |       |
| 220_41.fa            |        |          |       |         |          |        |        |       |
| 21_69.fa             |        |          |       |         |          |        |        |       |
| 86_maxbin.005.fa     |        |          |       |         |          |        |        |       |
| 121_33.fa            |        |          |       |         |          |        |        |       |
| 109_13.fa            |        |          |       |         |          |        |        |       |
| 128_35.fa            |        |          |       |         |          |        |        |       |
| -<br>49_0.fa         |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 20_19.fa             |        |          |       |         |          |        |        |       |
| 127_42.fa            |        |          |       |         |          |        |        |       |
| 17_43.fa             |        |          |       |         |          |        |        |       |
| 130_52.fa            |        |          |       |         |          |        |        |       |
| 55_19.fa             |        |          |       |         |          |        |        |       |
| 302_7.fa             |        |          |       |         |          |        |        |       |
| 155_maxbin.012.fa    |        |          |       |         |          |        |        |       |
|                      |        |          |       |         |          |        |        |       |
| 70_17.fa             |        |          |       |         |          |        |        |       |
| 69_22.fa             |        |          |       |         |          |        |        |       |
| 188_35.fa            |        |          |       |         |          |        |        |       |
| 68_12.fa             | 1      |          |       |         |          |        |        |       |
| 158_maxbin.007.fa    |        |          |       |         |          |        |        |       |
| 84_maxbin.005.fa     | H      |          |       |         |          |        |        |       |
| 58_33.fa             |        |          |       |         |          |        |        |       |
| 24_4.fa              |        |          |       |         |          |        |        |       |
| 27 65 sub fa         |        |          |       |         |          |        |        |       |

Average Nucleotide Identity (ANI)

100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0

27\_65\_sub.fa

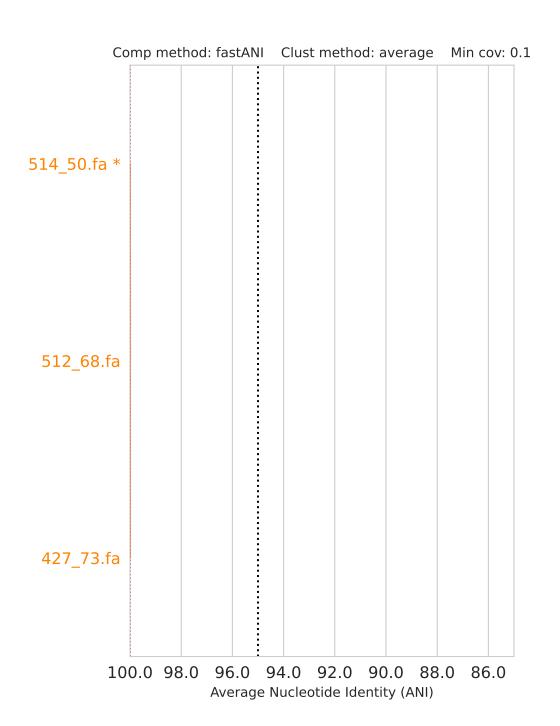


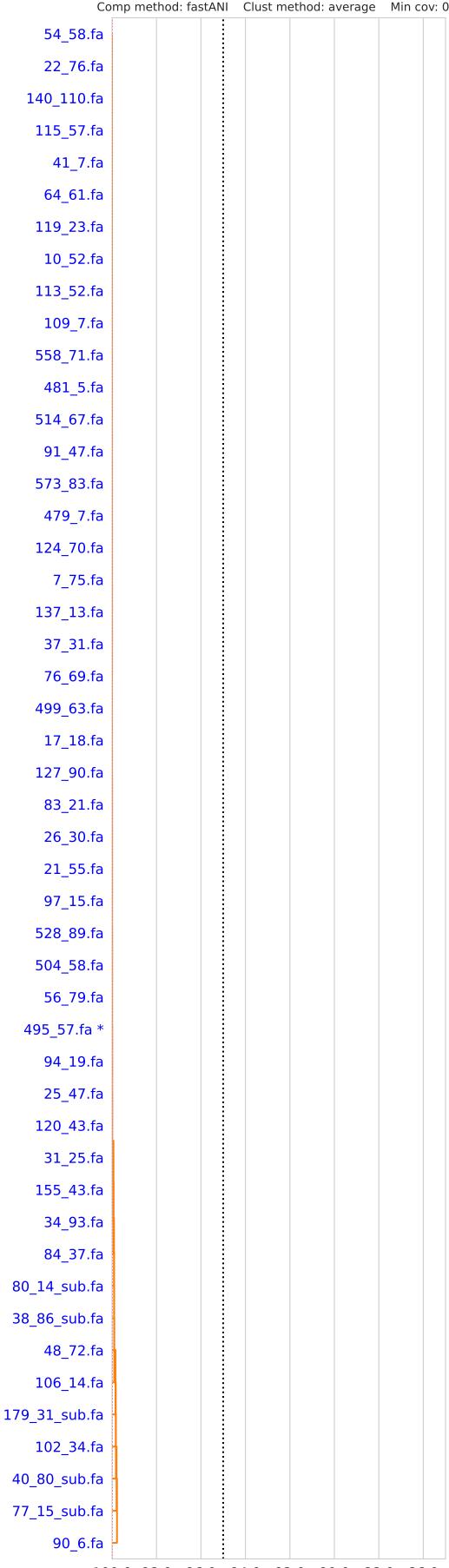




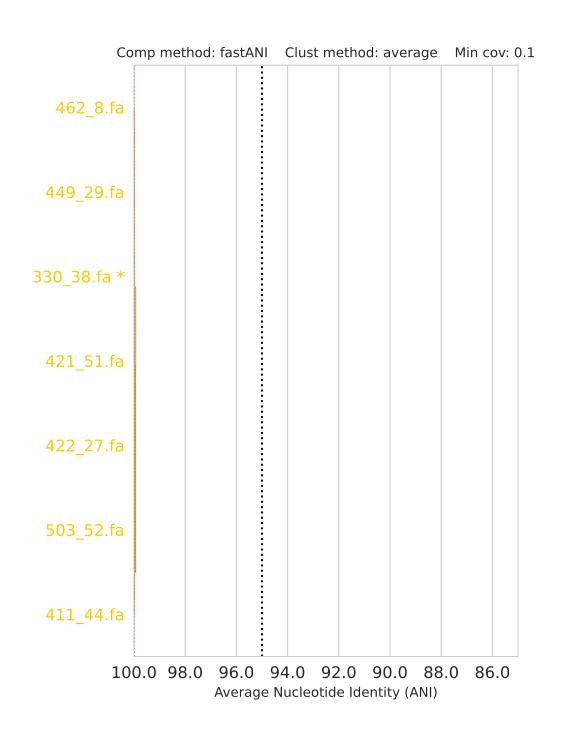
| Co            | mp method: fastANI | Clust method: average | Min cov: 0.1 |
|---------------|--------------------|-----------------------|--------------|
| 422_60.fa     |                    |                       |              |
| 36_103_sub.fa |                    |                       |              |
| 216_32.fa     |                    |                       |              |
| 97_22.fa *    |                    |                       |              |
| 494_9.fa      |                    |                       |              |
| 529_87.fa     |                    |                       |              |
| 421_12.fa     |                    |                       |              |
| 456_26.fa     |                    |                       |              |
| 444_40.fa     |                    |                       |              |
| 448_44.fa     |                    |                       |              |
| 374_69.fa     |                    |                       |              |
| 462_36.fa     |                    |                       |              |
| 500_64.fa     |                    |                       |              |
| 420_34.fa     |                    |                       |              |
| 450_135.fa    |                    |                       |              |
| 417_112.fa    |                    |                       |              |
| 459_112.fa    |                    |                       |              |
| 449_105.fa    |                    |                       |              |
| 460_11.fa     |                    |                       |              |
| 536_43.fa     |                    |                       |              |
| 423_50.fa     |                    |                       |              |
| 445_115.fa    |                    |                       |              |
| 411_6.fa      |                    |                       |              |
| 486_21.fa     |                    |                       |              |
| 371_23.fa     |                    |                       |              |
| 358_25.fa     |                    |                       |              |
| 512_37.fa     |                    |                       |              |
| 427_70.fa     |                    |                       |              |
| 424_3.fa      |                    |                       |              |
| 395_15.fa     |                    |                       |              |
| 451_40.fa     |                    |                       |              |

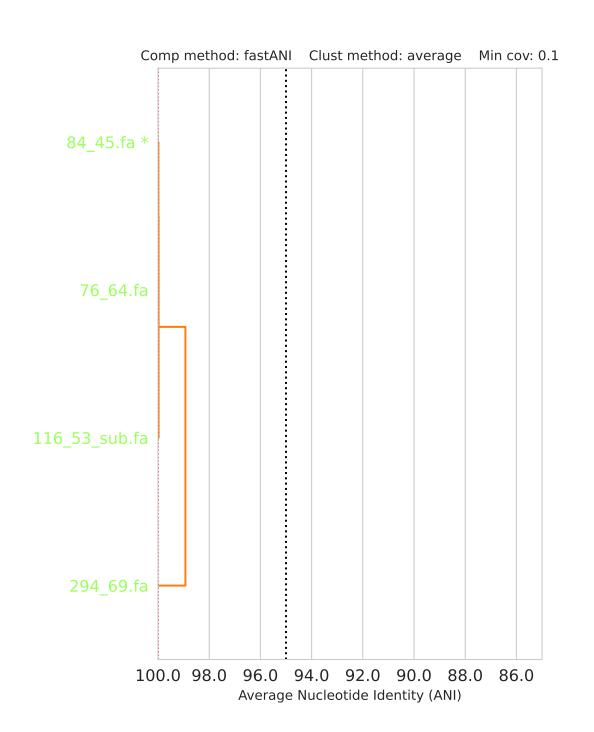
100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

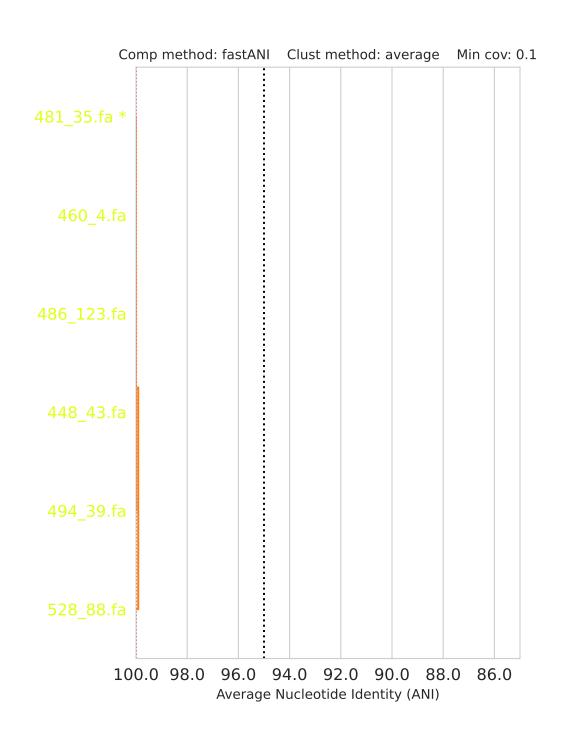




100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

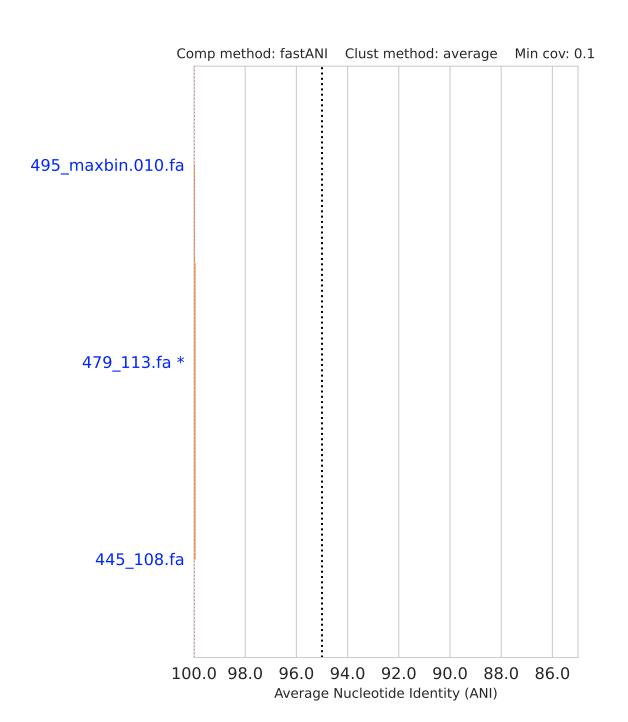


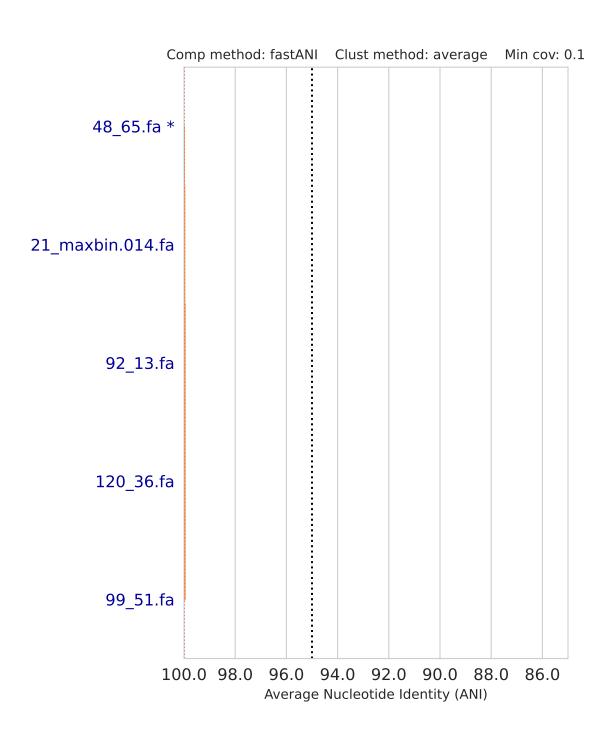


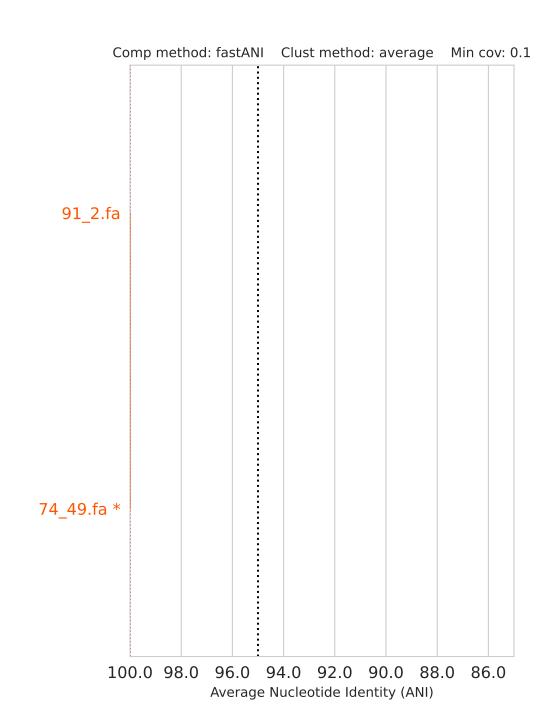


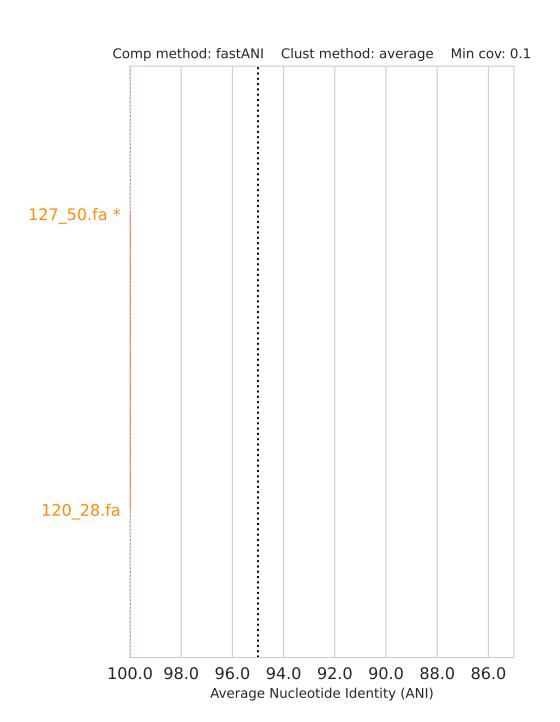
121\_19.fa

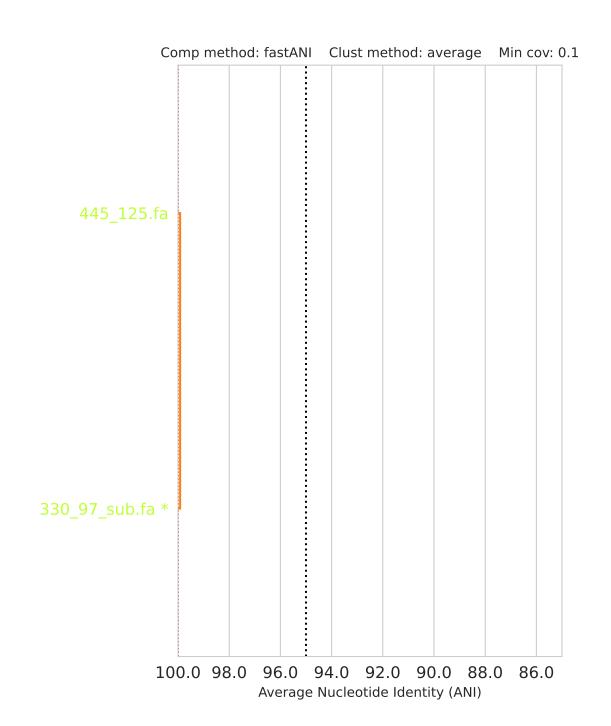
| 106_19.fa                             |        |        |                    |        |        |        |        |              |
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| 84_23.fa                              |        |        |                    |        |        |        |        |              |
| 44_58.fa                              |        |        |                    |        |        |        |        |              |
| 174_87.fa                             |        |        |                    |        |        |        |        |              |
| 120_45.fa                             |        |        |                    |        |        |        |        |              |
| 199_maxbin.014.fa                     |        |        |                    |        |        |        |        |              |
| 220_49.fa                             |        |        |                    |        |        |        |        |              |
| 26_51.fa                              |        |        |                    |        |        |        |        |              |
| 36_maxbin.009.fa<br>48_132.fa         |        |        |                    |        |        |        |        |              |
| 49_91.fa                              |        |        |                    |        |        |        |        |              |
| 503_63.fa                             |        |        |                    |        |        |        |        |              |
| 63_3.fa                               |        |        |                    |        |        |        |        |              |
| 64_24.fa                              |        |        |                    |        |        |        |        |              |
| 91_37.fa                              |        |        |                    |        |        |        |        |              |
| 92_64.fa                              |        |        |                    |        |        |        |        |              |
| 10_maxbin.007.fa                      |        |        |                    |        |        |        |        |              |
| 103_44.fa                             |        |        |                    |        |        |        |        |              |
| 119_34.fa                             |        |        |                    |        |        |        |        |              |
| 123_13.fa                             |        |        |                    |        |        |        |        |              |
| 124_2.fa                              |        |        |                    |        |        |        |        |              |
| 137_31.fa<br>144_42.fa                |        |        |                    |        |        |        |        |              |
| 157_13.fa                             |        |        |                    |        |        |        |        |              |
| 166_50.fa                             |        |        |                    |        |        |        |        |              |
| 179_79.fa                             |        |        |                    |        |        |        |        |              |
| 19_36.fa                              |        |        |                    |        |        |        |        |              |
| 204_30.fa                             |        |        |                    |        |        |        |        |              |
| 223_maxbin.002.fa                     |        |        |                    |        |        |        |        |              |
| 227_maxbin.008.fa                     |        |        |                    |        |        |        |        |              |
| 232_102.fa                            |        |        |                    |        |        |        |        |              |
| 235_57.fa<br>259_3.fa                 |        |        |                    |        |        |        |        |              |
| 259_3.fa<br>27_100.fa                 |        |        |                    |        |        |        |        |              |
| 41_maxbin.011.fa                      |        |        |                    |        |        |        |        |              |
| 50_maxbin.011.fa                      |        |        |                    |        |        |        |        |              |
| -<br>68_45.fa                         |        |        |                    |        |        |        |        |              |
| 145_50.fa                             |        |        |                    |        |        |        |        |              |
| 53_maxbin.003.fa                      |        |        |                    |        |        |        |        |              |
| 28_83.fa                              |        |        |                    |        |        |        |        |              |
| 139_maxbin.004.fa                     |        |        |                    |        |        |        |        |              |
| 109_65.fa                             |        |        |                    |        |        |        |        |              |
| 29_78.fa                              |        |        |                    |        |        |        |        |              |
| 30_62.fa<br>194_maxbin.017.fa         |        |        |                    |        |        |        |        |              |
| 47_58.fa                              |        |        |                    |        |        |        |        |              |
| 507_maxbin.006.fa                     |        |        |                    |        |        |        |        |              |
| _<br>234_42.fa                        |        |        |                    |        |        |        |        |              |
| 39_maxbin.005.fa                      |        |        |                    |        |        |        |        |              |
| 62_27.fa                              |        |        |                    |        |        |        |        |              |
| 51_15.fa                              |        |        |                    |        |        |        |        |              |
| 17_38.fa                              |        |        |                    |        |        |        |        |              |
| 8_7.fa                                |        |        |                    |        |        |        |        |              |
| 37_5.fa                               |        |        |                    |        |        |        |        |              |
| 70_32.fa<br>42_maxbin.008.fa          |        |        |                    |        |        |        |        |              |
| 58_maxbin.007.fa                      |        |        |                    |        |        |        |        |              |
| 56_53.fa                              |        |        |                    |        |        |        |        |              |
| 83_maxbin.001.fa                      |        |        |                    |        |        |        |        |              |
| 252_66.fa                             |        |        |                    |        |        |        |        |              |
| 115_31.fa                             |        |        |                    |        |        |        |        |              |
| 95_53.fa                              |        |        |                    |        |        |        |        |              |
| 164_maxbin.008.fa                     |        |        |                    |        |        |        |        |              |
| 6_111.fa                              |        |        |                    |        |        |        |        |              |
| 22_120.fa                             |        |        |                    |        |        |        |        |              |
| 32_54.fa                              |        |        |                    |        |        |        |        |              |
| 24_1.fa<br>31_13.fa                   |        |        |                    |        |        |        |        |              |
| 158_maxbin.013.fa                     |        |        |                    |        |        |        |        |              |
| 21_18_sub.fa                          |        |        |                    |        |        |        |        |              |
| 65_8.fa                               |        |        |                    |        |        |        |        |              |
| 54_108.fa                             |        |        |                    |        |        |        |        |              |
| 130_114.fa                            |        |        |                    |        |        |        |        |              |
| 302_41.fa                             |        |        |                    |        |        |        |        |              |
| 71_13.fa                              |        |        |                    |        |        |        |        |              |
| 116_maxbin.011.fa<br>77_maxbin.005.fa |        |        |                    |        |        |        |        |              |
| 77_maxbin.005.fa<br>146_44.fa         |        |        |                    |        |        |        |        |              |
| 46_47.fa                              |        |        |                    |        |        |        |        |              |
| 212_39.fa                             |        |        |                    |        |        |        |        |              |
| 184_37.fa                             |        |        |                    |        |        |        |        |              |
| 80_83.fa *                            |        |        |                    |        |        |        |        |              |
| 66_42.fa                              |        |        |                    |        |        |        |        |              |
| 127_92.fa                             |        |        |                    |        |        |        |        |              |
| 76_maxbin.005.fa<br>287_21.fa         |        |        |                    |        |        |        |        |              |
| 287_21.1a<br>188_8.fa                 |        |        |                    |        |        |        |        |              |
| 128_77.fa                             |        |        |                    |        |        |        |        |              |
| 94_maxbin.004.fa                      |        |        |                    |        |        |        |        |              |
| 86_33.fa                              |        |        |                    |        |        |        |        |              |
| 102_82.fa                             |        |        |                    |        |        |        |        |              |
| 294_49.fa                             |        |        |                    |        |        |        |        |              |
| 159_17.fa                             |        |        |                    |        |        |        |        |              |
| 140_105.fa<br>104_50.fa               |        |        |                    |        |        |        |        |              |
| 104_50.fa<br>60_18.fa                 |        |        |                    |        |        |        |        |              |
| 38_21.fa                              |        |        |                    |        |        |        |        |              |
| 506_maxbin.005.fa                     |        |        |                    |        |        |        |        |              |
| 3_maxbin.004.fa                       |        |        |                    |        |        |        |        |              |
| 14_35.fa                              |        |        |                    |        |        |        |        |              |
| 134_61.fa                             |        |        |                    |        |        |        |        |              |
| 69_3.fa                               |        |        |                    |        |        |        |        |              |
| 25_77.fa                              |        |        |                    |        |        |        |        |              |
| 2_maxbin.008.fa                       |        |        |                    |        |        |        |        |              |
| 499_maxbin.009.fa<br>74_4.fa          |        |        |                    |        |        |        |        |              |
| 155_42.fa                             |        |        |                    |        |        |        |        |              |
| 99_18.fa                              |        |        |                    |        |        |        |        |              |
| 40_84.fa                              |        |        |                    |        |        |        |        |              |
| 20_80.fa                              |        |        |                    |        |        |        |        |              |
| 251_19.fa                             |        |        |                    |        |        |        |        |              |
| 16_32.fa                              |        |        |                    |        |        |        |        |              |
| 180_26.fa<br>10                       | 0.0 98 | 3.0 00 | 5.0 94             | I.O 92 | 2.0 90 | 0.0 88 | 3.0 86 | 5 <u>.</u> 0 |
| 10                                    | J.U 98 |        | o.0 94<br>erage Nu |        |        |        | ช6     |              |
|                                       |        |        |                    |        |        |        |        |              |

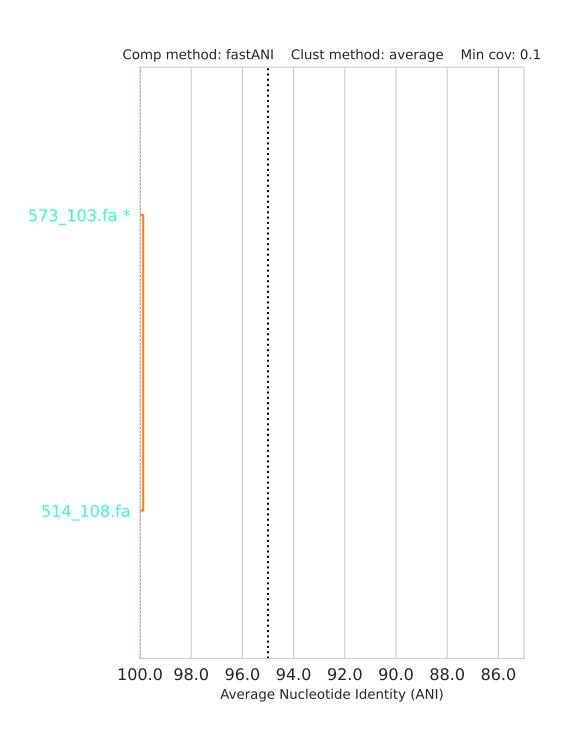


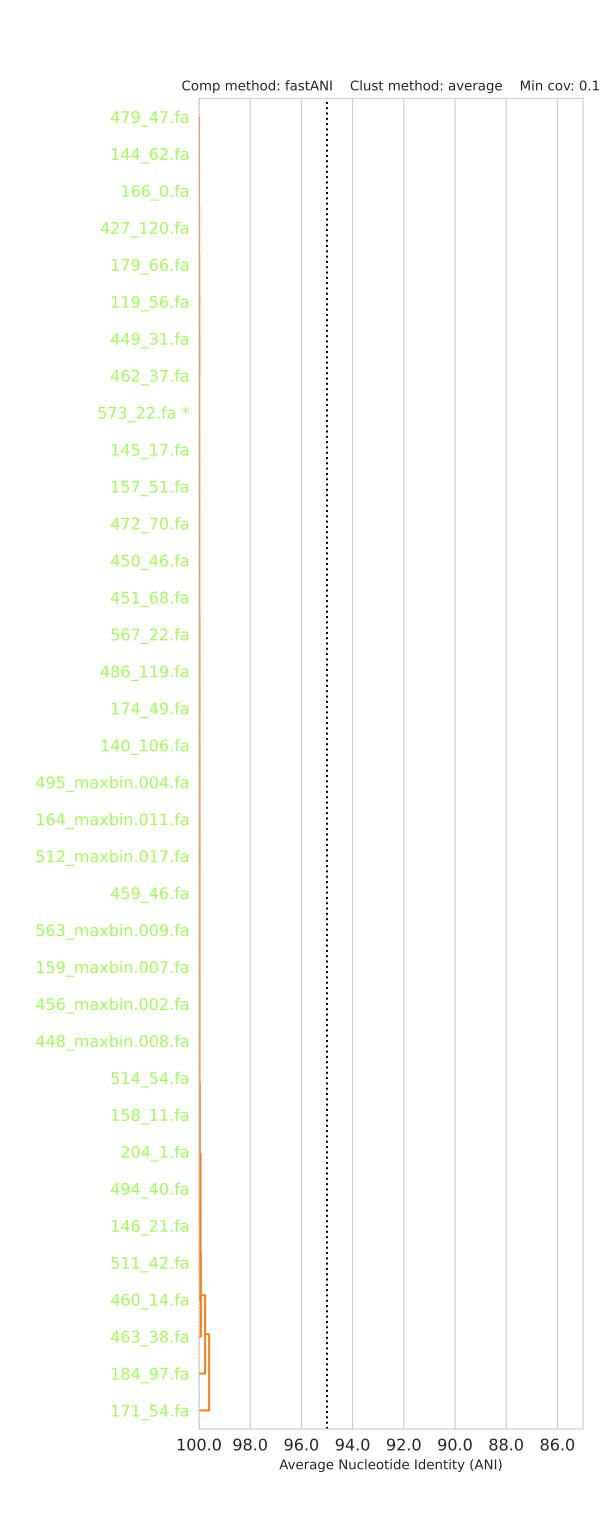


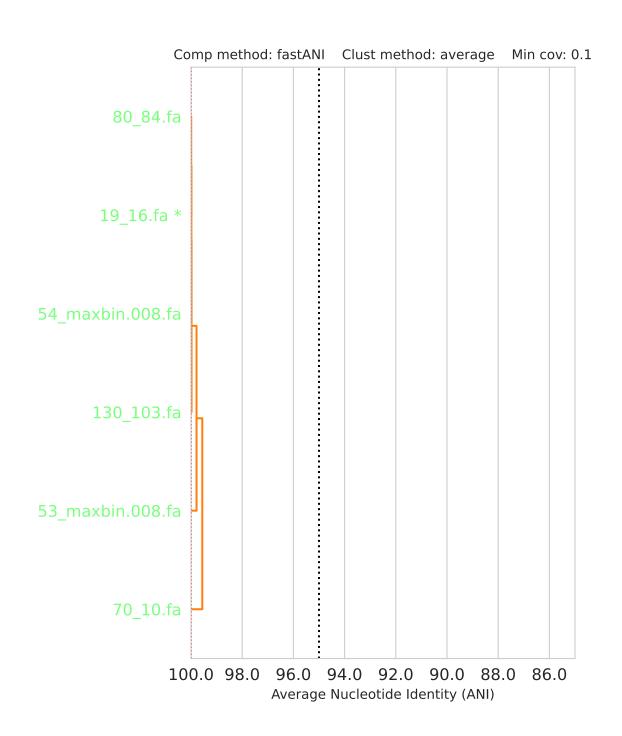


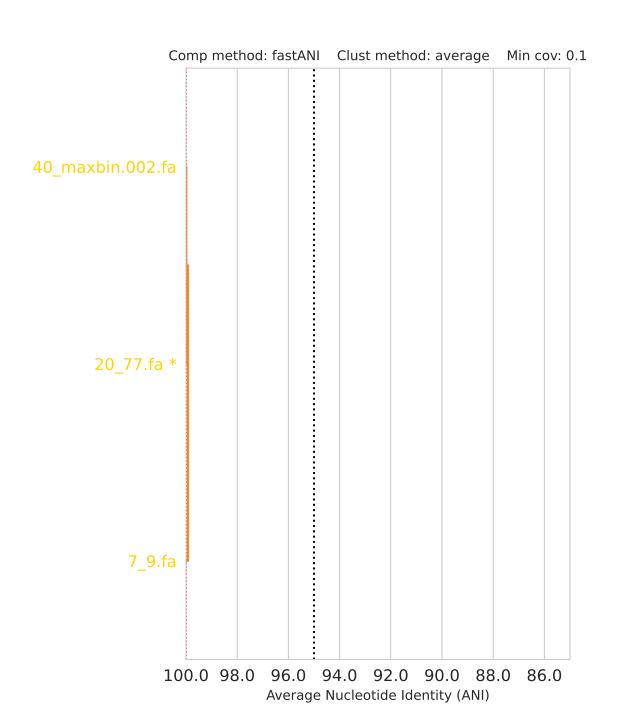


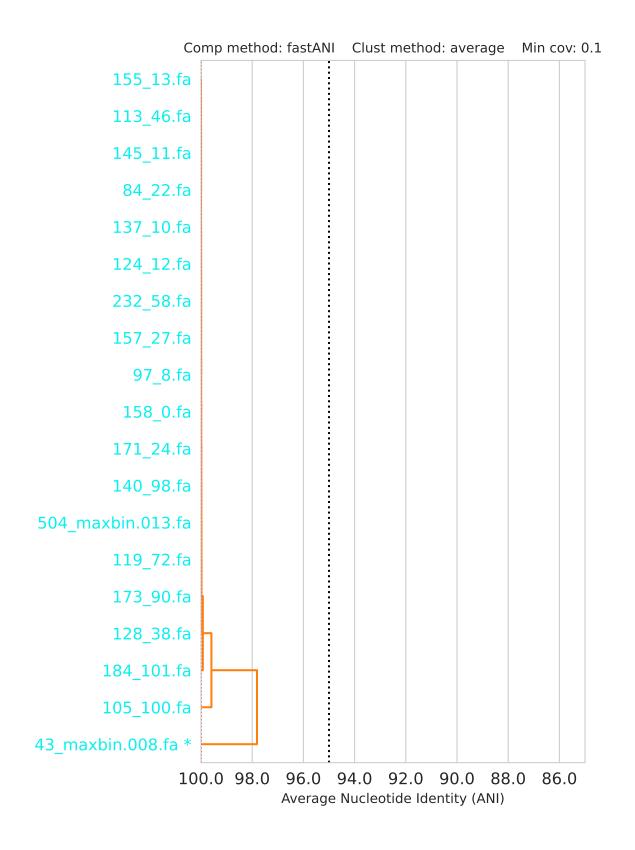


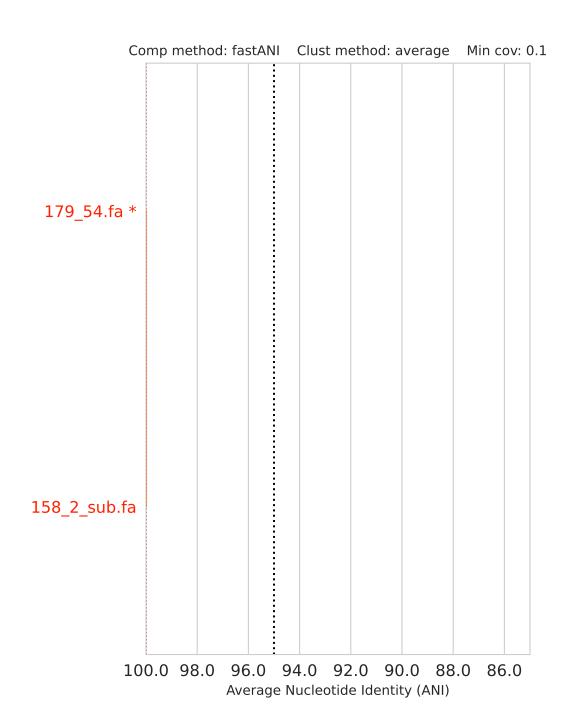


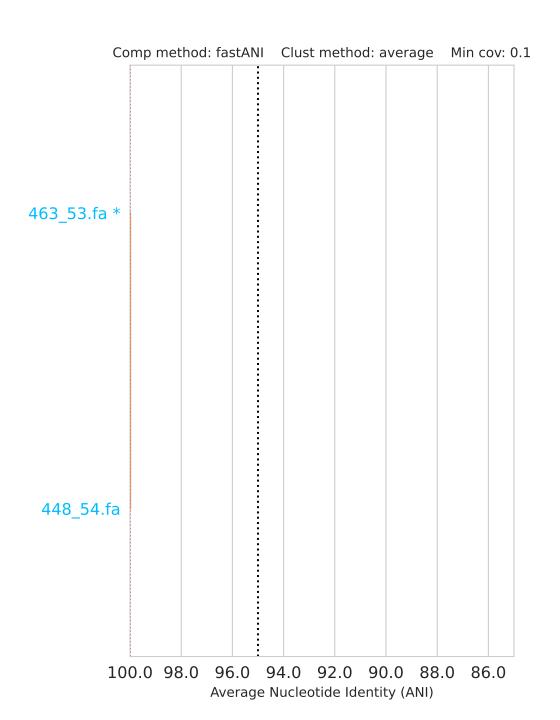


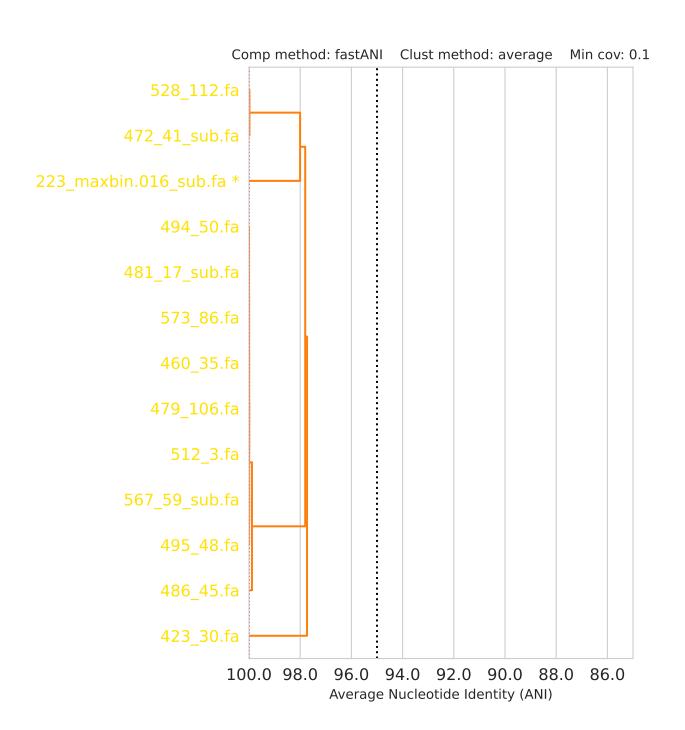




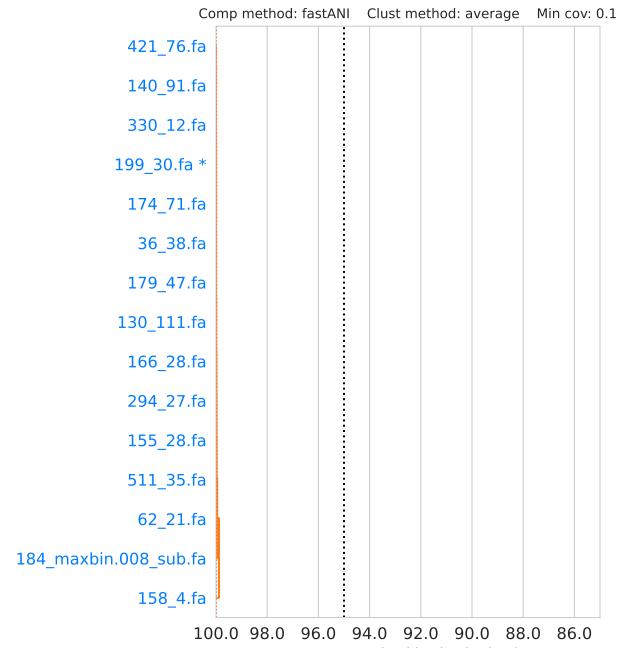




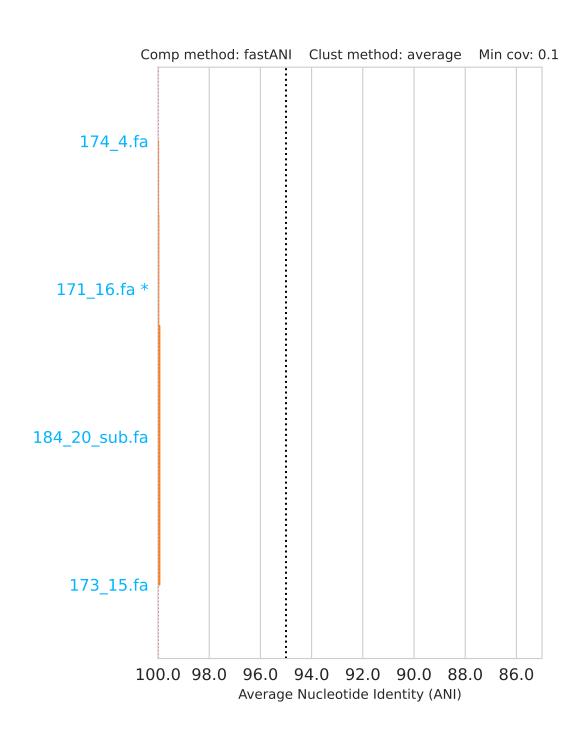




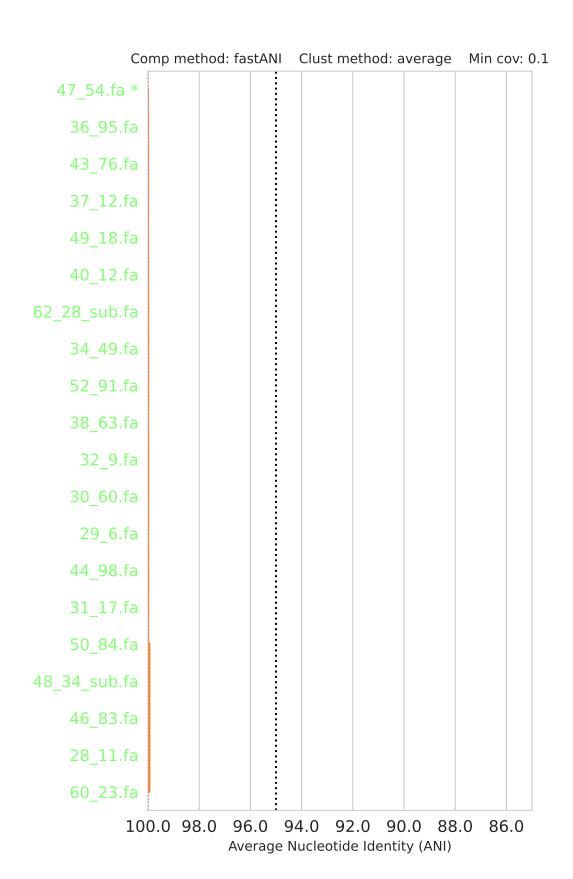


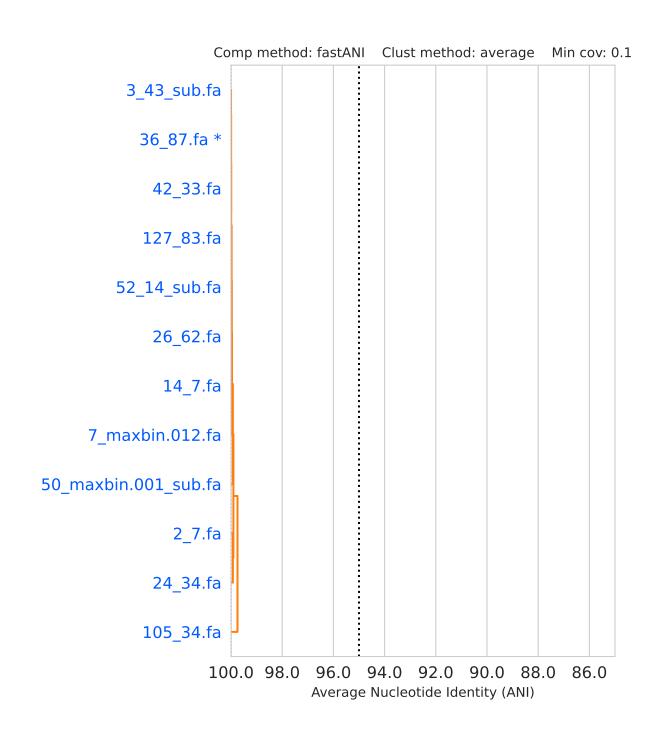


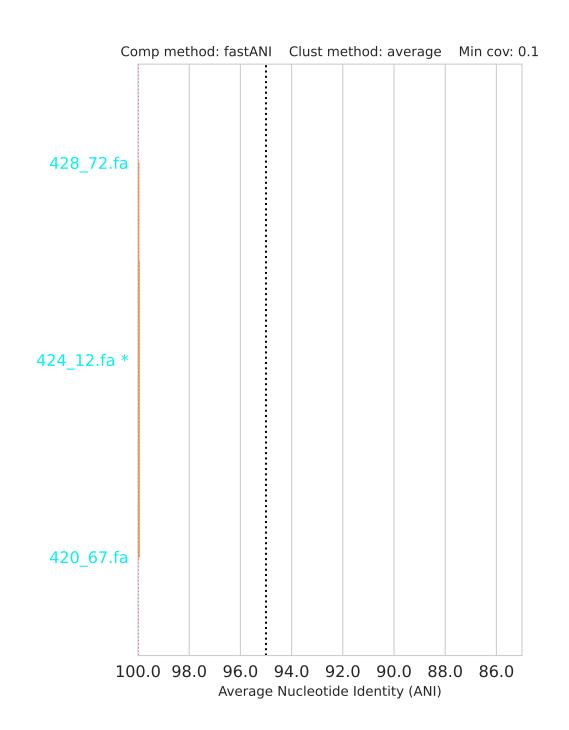
Average Nucleotide Identity (ANI)

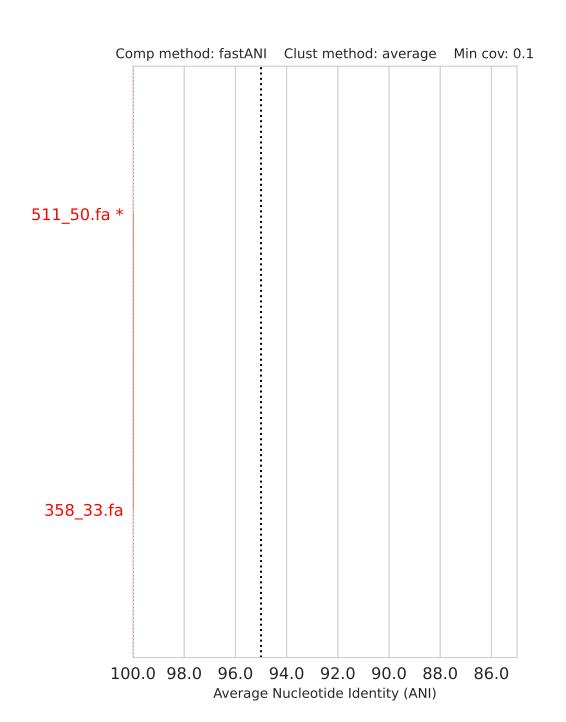


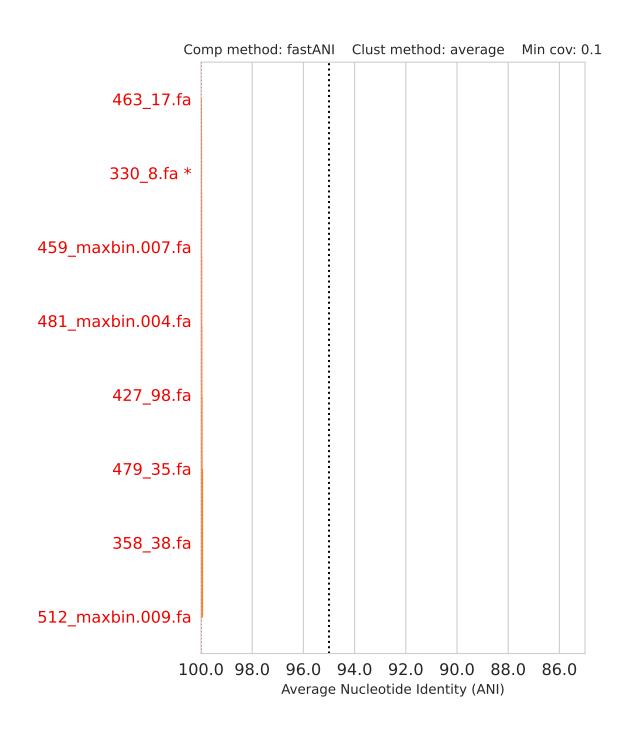


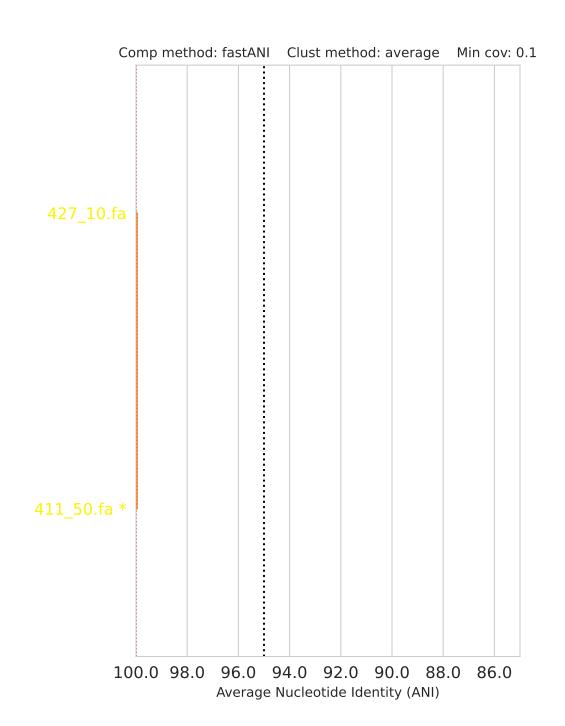






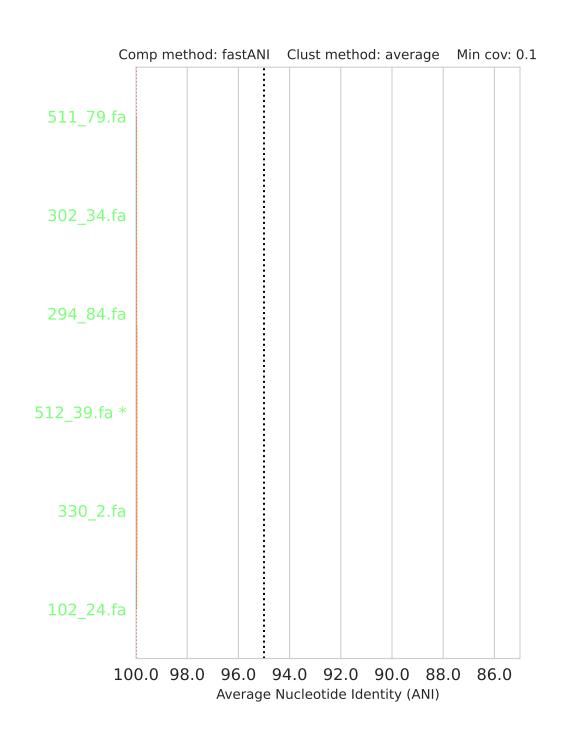






| 53_2.fa 23_73.fa 40_108.fa* 22_74.fa 36_8.fa 26_27.fa 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa | Co               | mp meth | od: fast | tANI | Clust me | ethod: a | iverage | Min co | ov: 0.1 |
|--|------------------|---------|----------|------|----------|----------|---------|--------|---------|
| 40_108.fa * 22_74.fa 36_8.fa 26_27.fa 9_19.fa 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa         | 53_2.fa          |         |          | i    |          |          |         |        |         |
| 22_74.fa 36_8.fa 26_27.fa 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa                             | 23_73.fa         |         |          |      |          |          |         |        |         |
| 36_8.fa 26_27.fa 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa                                      | 40_108.fa *      |         |          |      |          |          |         |        |         |
| 26_27.fa 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 22_74.fa         |         |          |      |          |          |         |        |         |
| 9_19.fa 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 11_16.fa   | 36_8.fa          |         |          |      |          |          |         |        |         |
| 50_37.fa 2_57.fa 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 26_27.fa         |         |          |      |          |          |         |        |         |
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| 56_30.fa 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 50_37.fa         |         |          |      |          |          |         |        |         |
| 6_131.fa 20_57.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 66_222.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 2_57.fa          |         |          |      |          |          |         |        |         |
| 20_57.fa 3_54.fa 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 11_2.6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 56_30.fa         |         |          |      |          |          |         |        |         |
| 3_54.fa 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 6_131.fa         |         |          |      |          |          |         |        |         |
| 54_40.fa 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa  | 20_57.fa         |         |          |      |          |          |         |        |         |
| 44_93.fa 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 3_54.fa          |         |          |      |          |          |         |        |         |
| 47_125.fa 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 54_40.fa         |         |          |      |          |          |         |        |         |
| 39_50.fa 41_20.fa 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 44_93.fa         |         |          |      |          |          |         |        |         |
| 41_20.fa  12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 47_125.fa        |         |          |      |          |          |         |        |         |
| 12_6.fa 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 39_50.fa         |         |          |      |          |          |         |        |         |
| 7_30.fa 37_47.fa 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 41_20.fa         |         |          |      |          |          |         |        |         |
| 37_47.fa 34_104.fa 48_102.fa 48_398.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 12_6.fa          |         |          |      |          |          |         |        |         |
| 34_104.fa 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 7_30.fa          |         |          |      |          |          |         |        |         |
| 48_102.fa 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 37_47.fa         |         |          |      |          |          |         |        |         |
| 43_98.fa 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 34_104.fa        |         |          |      |          |          |         |        |         |
| 92_6.fa 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 48_102.fa        |         |          |      |          |          |         |        |         |
| 52_71.fa 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 43_98.fa         |         |          |      |          |          |         |        |         |
| 62_22.fa 49_67.fa 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 92_6.fa          |         |          |      |          |          |         |        |         |
| 49_67.fa  17_40.fa  31_41.fa  30_23.fa  25_31.fa  19_11.fa  8_6.fa  32_21.fa  38_35.fa  51_22.fa  27_maxbin.006.fa  10_14.fa  60_4.fa  76_92.fa  24_51.fa  14_16.fa  | 52_71.fa         |         |          |      |          |          |         |        |         |
| 17_40.fa 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 62_22.fa         |         |          |      |          |          |         |        |         |
| 31_41.fa 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 49_67.fa         |         |          |      |          |          |         |        |         |
| 30_23.fa 25_31.fa 19_11.fa 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 17_40.fa         |         |          |      |          |          |         |        |         |
| 25_31.fa  19_11.fa  8_6.fa  32_21.fa  38_35.fa  51_22.fa  27_maxbin.006.fa  10_14.fa  60_4.fa  76_92.fa  24_51.fa  14_16.fa  | 31_41.fa         |         |          |      |          |          |         |        |         |
| 19_11.fa  8_6.fa  32_21.fa  38_35.fa  51_22.fa  27_maxbin.006.fa  10_14.fa  60_4.fa  76_92.fa  24_51.fa  14_16.fa  | 30_23.fa         |         |          |      |          |          |         |        |         |
| 8_6.fa 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 25_31.fa         |         |          |      |          |          |         |        |         |
| 32_21.fa 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 19_11.fa         |         |          |      |          |          |         |        |         |
| 38_35.fa 51_22.fa 27_maxbin.006.fa 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 8_6.fa           |         |          |      |          |          |         |        |         |
| 51_22.fa 27_maxbin.006.fa  10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 32_21.fa         |         |          |      |          |          |         |        |         |
| 27_maxbin.006.fa  10_14.fa  60_4.fa  76_92.fa  24_51.fa  14_16.fa  | 38_35.fa         |         |          |      |          |          |         |        |         |
| 10_14.fa 60_4.fa 76_92.fa 24_51.fa 14_16.fa  | 51_22.fa         |         |          |      |          |          |         |        |         |
| 60_4.fa 76_92.fa 24_51.fa 14_16.fa   | 27_maxbin.006.fa |         |          |      |          |          |         |        |         |
| 76_92.fa 24_51.fa 14_16.fa   | 10_14.fa         |         |          |      |          |          |         |        |         |
| 24_51.fa<br>14_16.fa   | 60_4.fa          |         |          |      |          |          |         |        |         |
| 14_16.fa   | <b>76_92.</b> fa |         |          |      |          |          |         |        |         |
|  | 24_51.fa         |         |          |      |          |          |         |        |         |
|  |                  |         |          | :    |          |          |         |        |         |

100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)





| Co                                | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |
|-----------------------------------|--------------|---------|---------|----------|--------|-------|---------|
| Co<br>95_11.fa                    | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |
|                                   | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |
| 95_11.fa                          | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |
| 95_11.fa<br>12_57.fa              | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |
| 95_11.fa<br>12_57.fa<br>499_57.fa | mp method: 1 | fastANI | Clust m | ethod: a | verage | Min c | ov: 0.1 |

64\_20.fa

514\_8.fa

456\_11.fa

76\_113.fa

54\_64.fa

179\_37.fa

53\_48.fa

486\_52.fa

460\_5.fa

204\_113.fa

184\_49.fa

137\_25.fa

223\_31.fa

166\_25.fa

68\_4.fa

420\_50.fa

157\_60.fa

120\_73.fa

80\_3.fa

19\_0.fa

463\_15.fa

39\_58.fa

421\_24.fa

144\_11.fa

83\_23.fa

103\_5.fa

37\_56.fa

252\_27.fa

500\_106.fa

104\_47.fa

494\_49.fa

302\_23.fa

155\_53.fa

160\_27.fa

422\_105.fa

174\_70.fa

294\_83.fa

444\_53.fa

22\_110.fa

417\_116.fa

428\_32.fa

411\_49.fa

77\_65.fa

105\_62.fa

159\_71.fa

56\_38.fa

28\_28.fa

511\_67.fa

145\_52.fa

123\_31.fa

462\_13.fa

427\_35.fa

173\_18.fa

124\_26.fa

171\_35.fa

234\_12.fa

216\_16.fa

450\_55.fa

130\_35.fa

481\_71.fa

423\_80.fa

563\_21.fa

2\_106.fa

115\_26.fa

259\_51.fa

21\_0.fa

97\_13.fa

106\_6.fa

140\_26.fa

287\_24.fa

74\_5.fa

82\_49.fa

146\_8.fa

99\_37.fa

62\_8.fa

50\_68.fa

90\_1.fa

**51\_6.**fa

134\_60.fa

113\_23.fa

567\_50.fa

70\_49.fa

451\_47.fa

26\_1.fa

20\_86.fa

330\_104.fa

358\_maxbin.014.fa

199\_maxbin.005.fa

52\_maxbin.006.fa

227\_maxbin.002.fa

448\_maxbin.001.fa

47\_maxbin.005.fa

23\_maxbin.006.fa

9\_maxbin.005.fa

164\_8\_sub.fa

102\_4.fa

36\_27.fa

459\_83.fa

472\_112.fa

3\_maxbin.001.fa

94\_maxbin.006.fa

116\_maxbin.003.fa

424\_maxbin.012.fa \*

25\_93.fa

109\_12.fa

507\_72.fa

251\_27.fa

158\_22.fa

139\_36.fa

48\_76.fa

449\_40.fa

32\_77.fa

235\_36.fa

194\_55.fa

212\_21.fa

128\_58.fa

127\_63.fa

91\_4.fa

66\_10.fa

119\_50.fa

65\_16.fa

175\_30.fa

63\_21.fa

41\_80.fa

479\_12.fa

98\_52.fa

55\_34.fa

69\_8.fa

84\_0.fa

14\_2.fa

180\_9.fa

49\_62.fa

395\_37.fa

60\_14.fa

121\_10.fa

188\_20.fa

24\_18.fa

31\_29.fa

10\_35.fa

34\_65.fa

371\_3.fa

168\_26.fa

529\_71.fa

540\_82.fa

100.0 98.0

96.0 94.0 92.0 90.0 88.0 86.0

Average Nucleotide Identity (ANI)

27\_72\_sub.fa

 $58\_maxbin.004.fa$ 

8\_maxbin.001.fa

504\_96\_sub.fa

445\_126.fa

495\_maxbin.005.fa

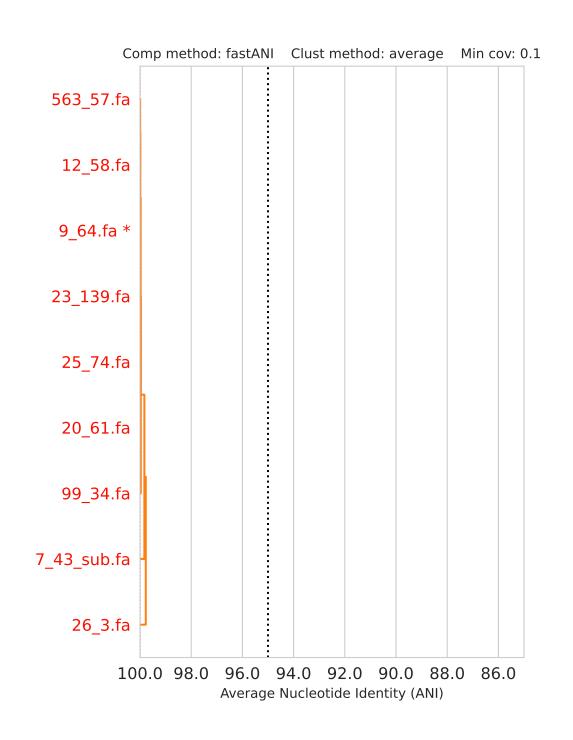
40\_47\_sub.fa

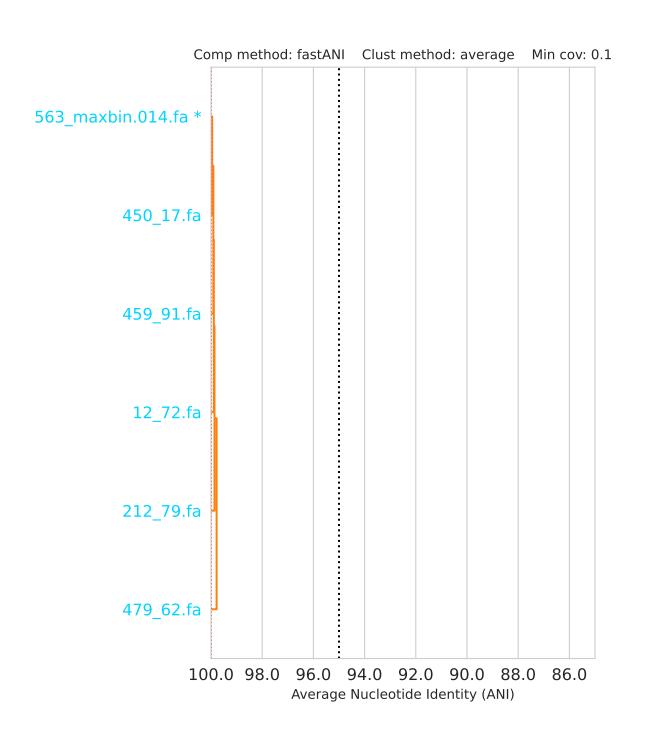
17\_3.fa

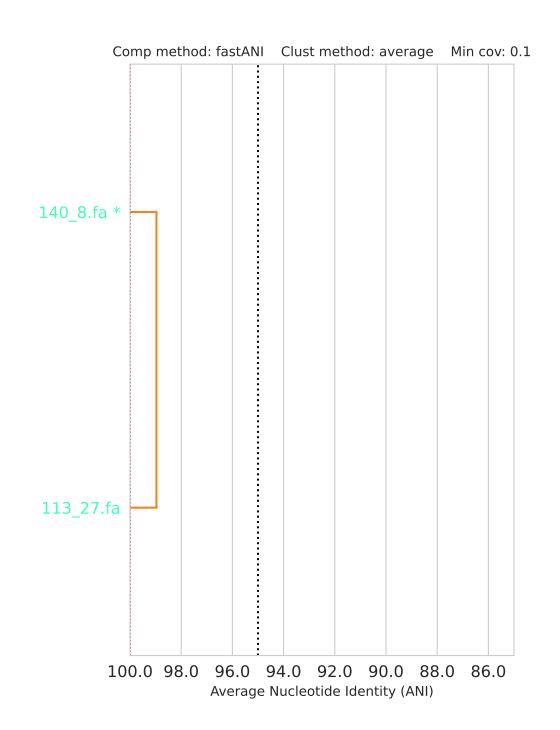
43\_84\_sub.fa

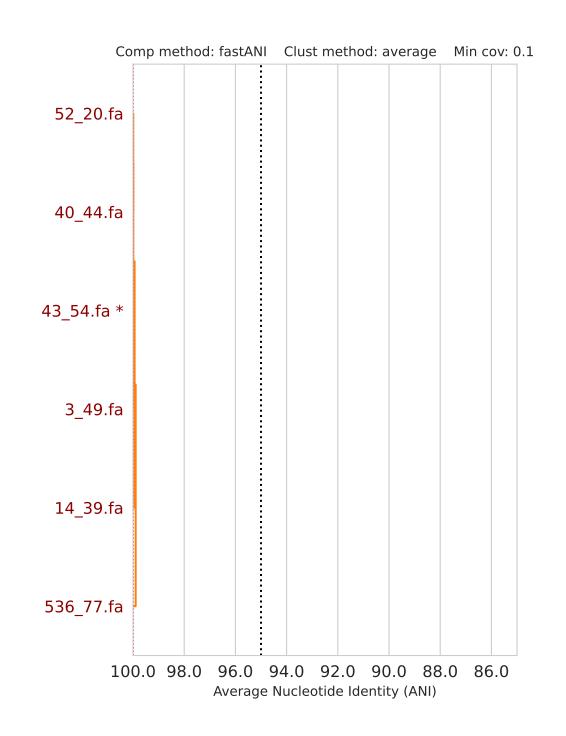
7\_84.fa

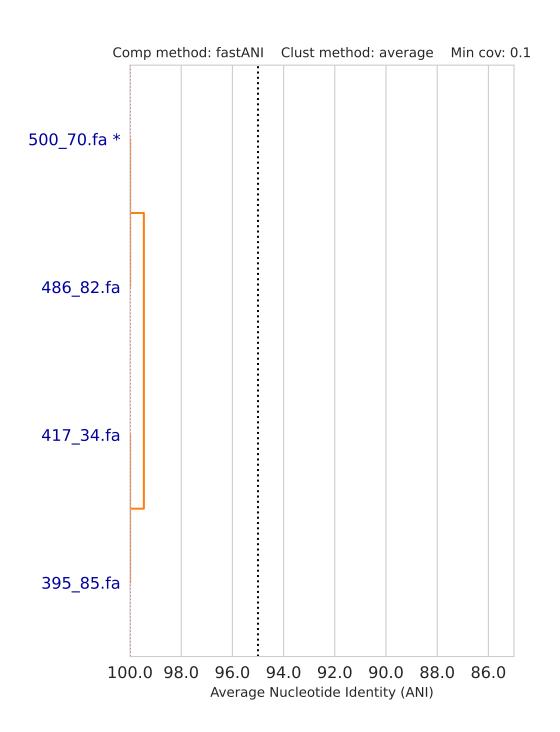
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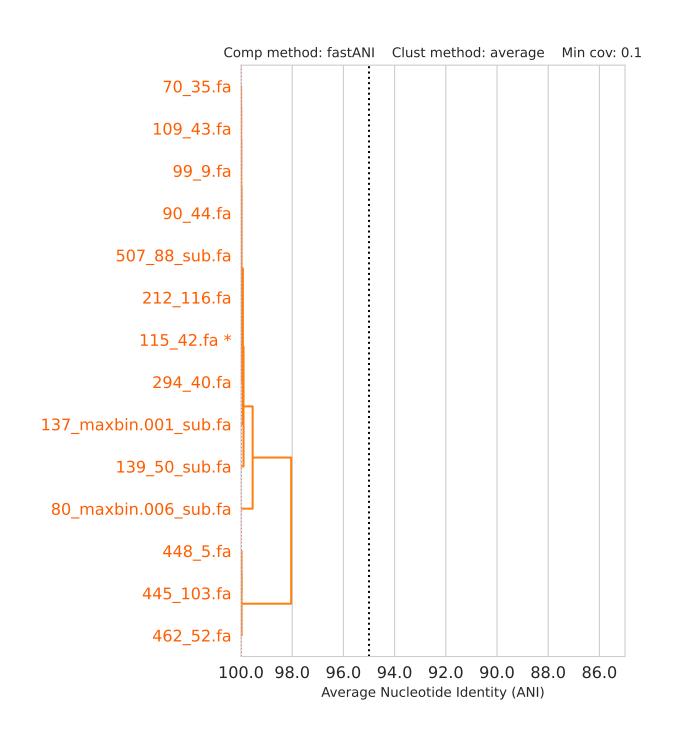


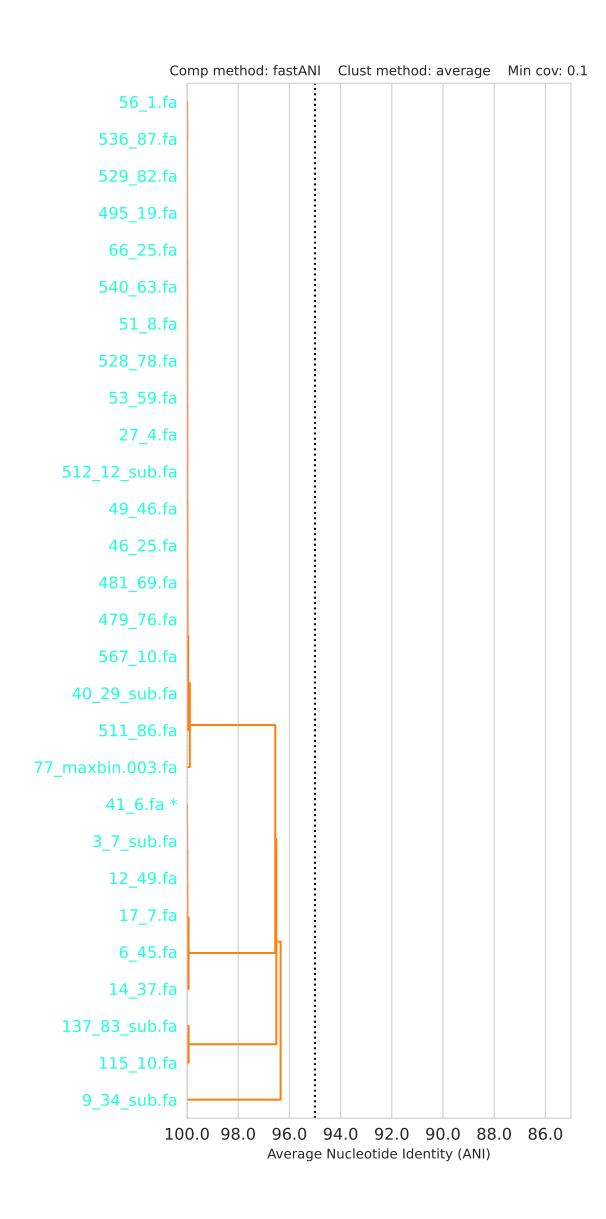


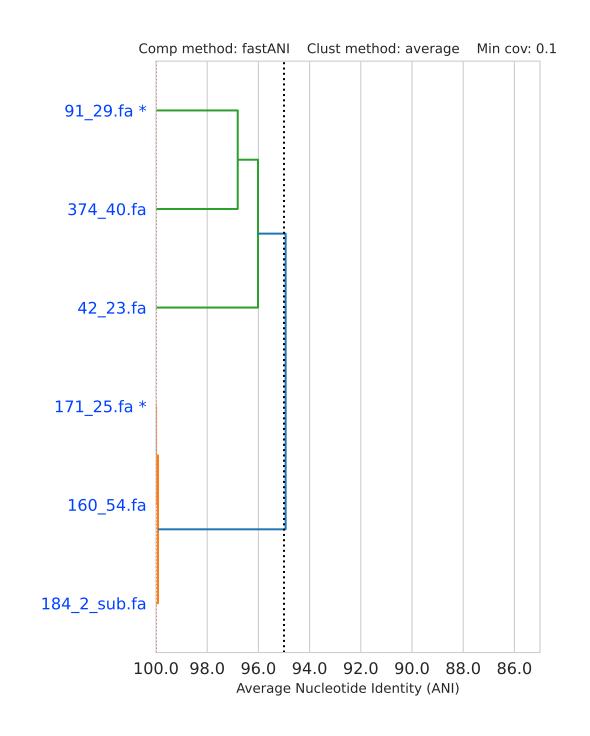


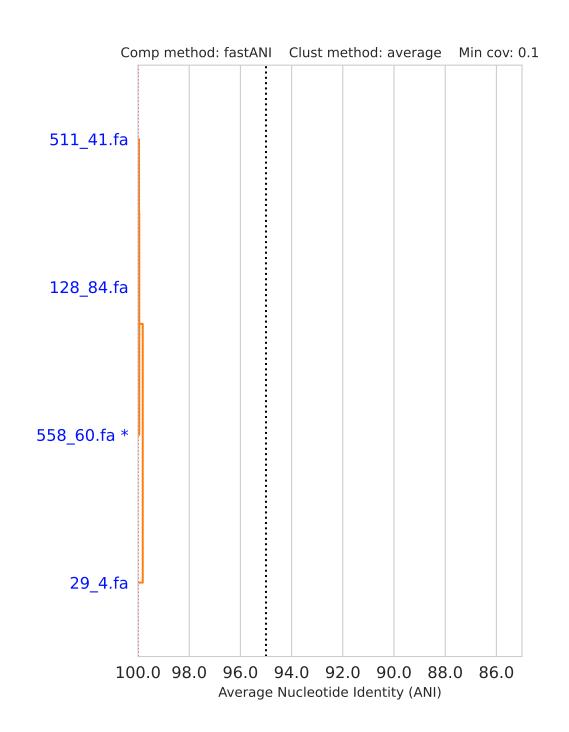


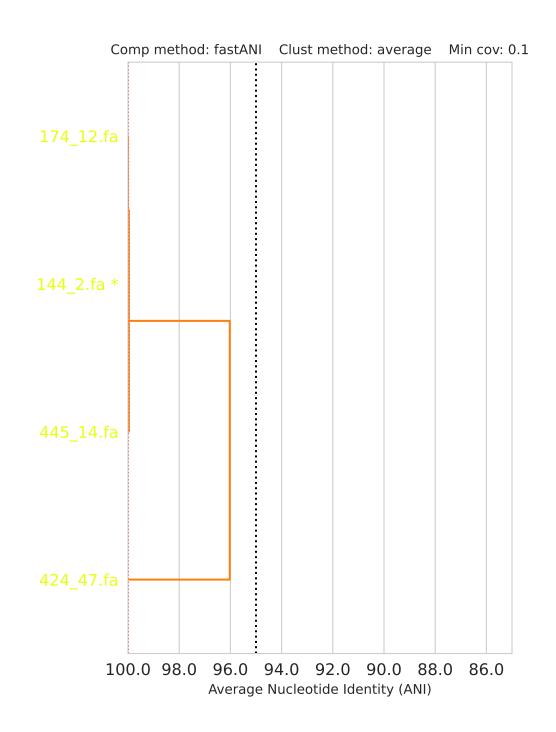


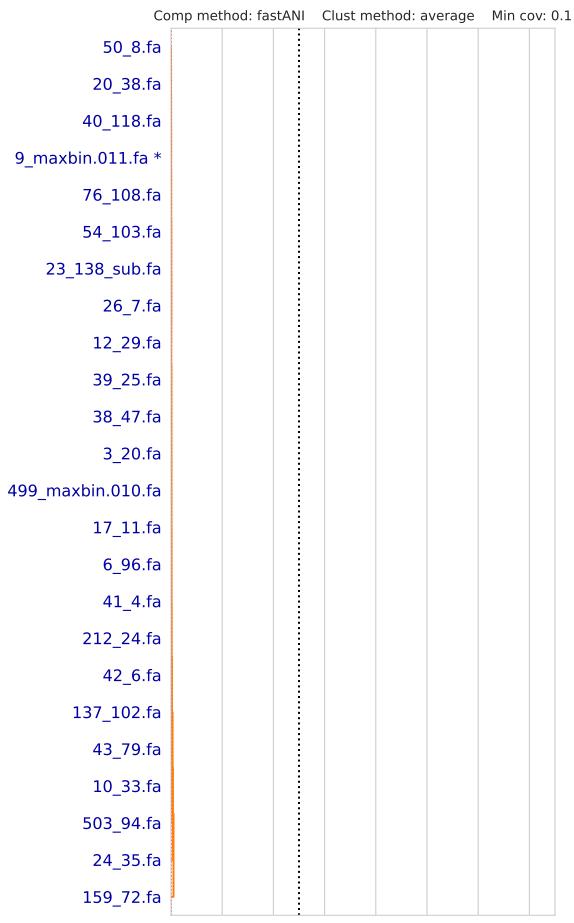




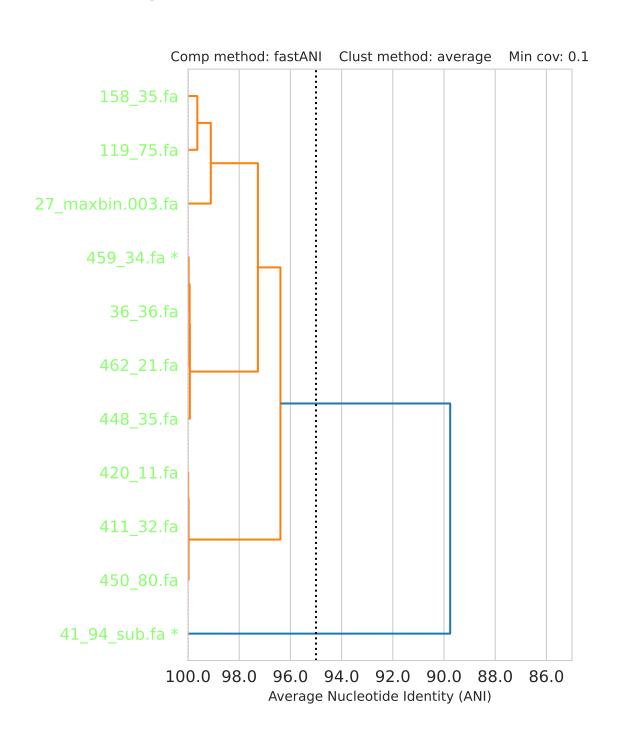


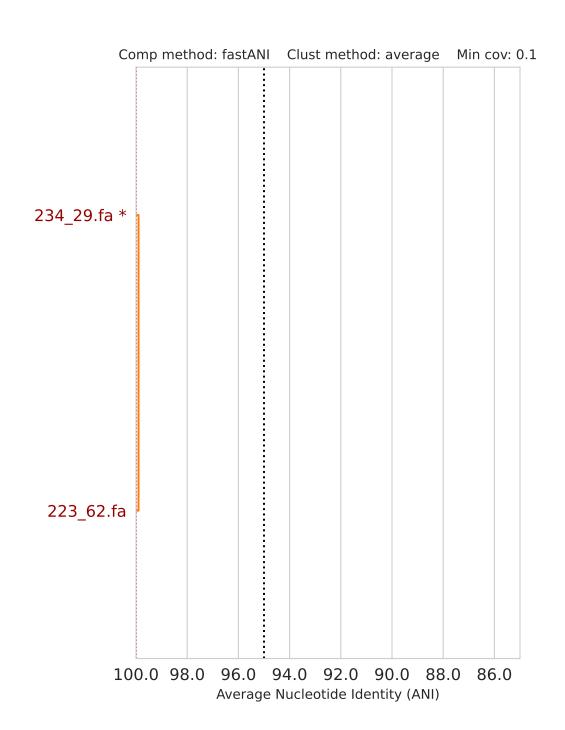


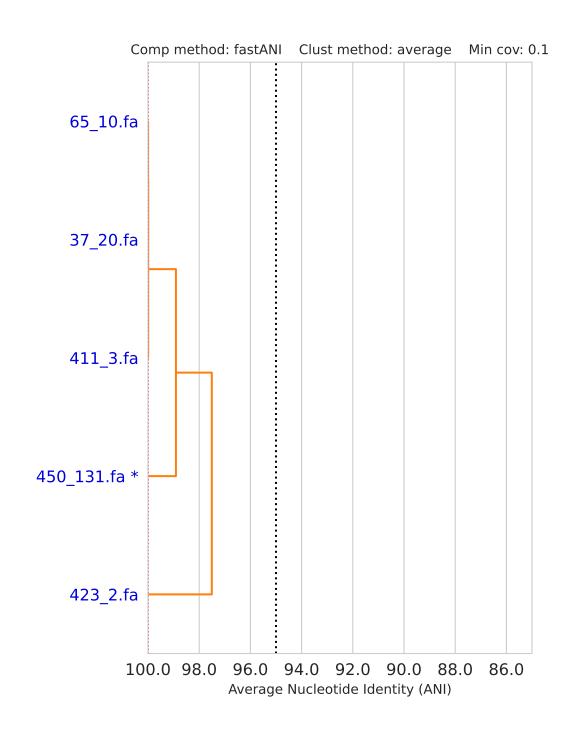


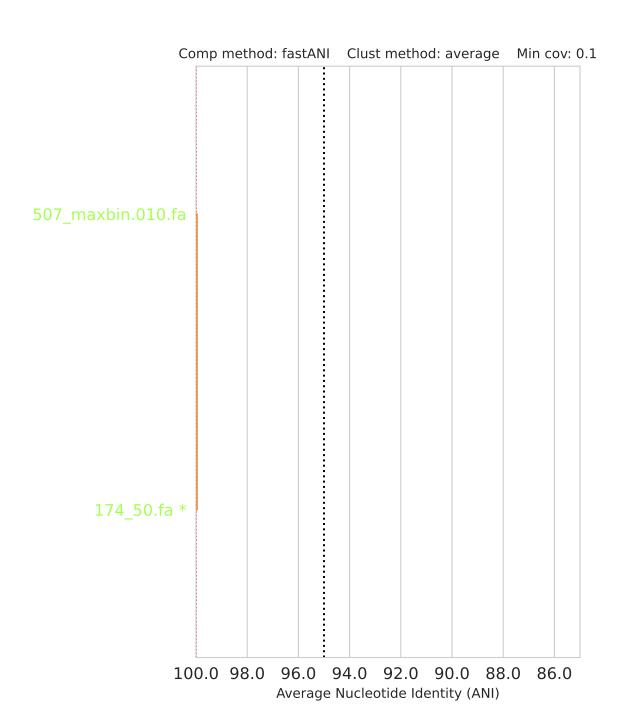


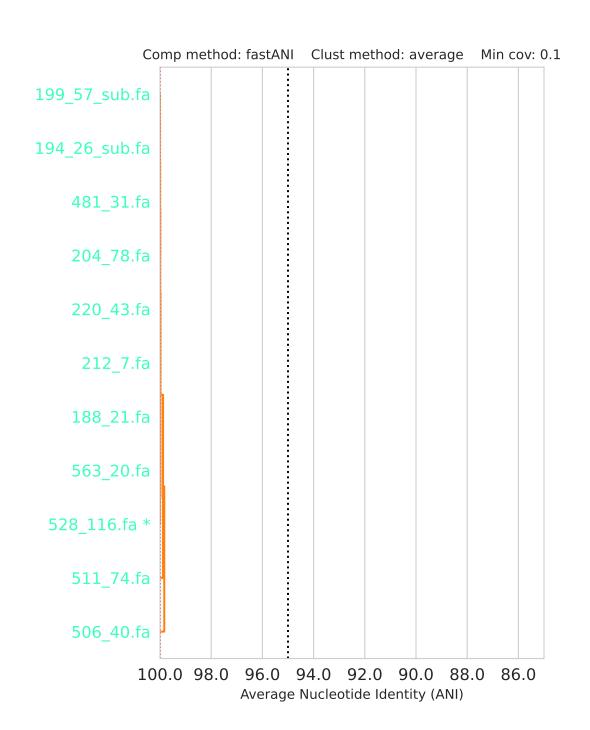
100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

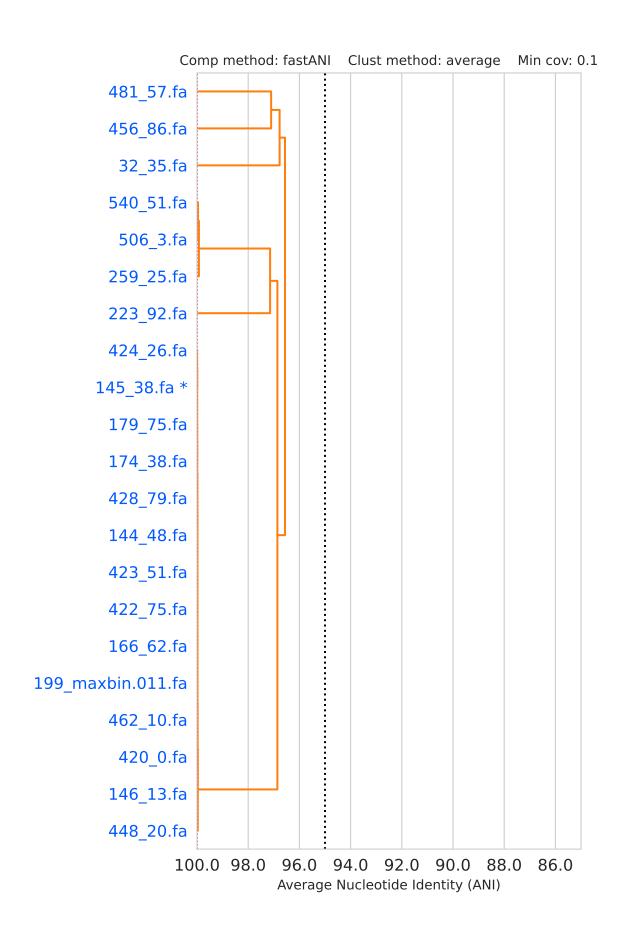


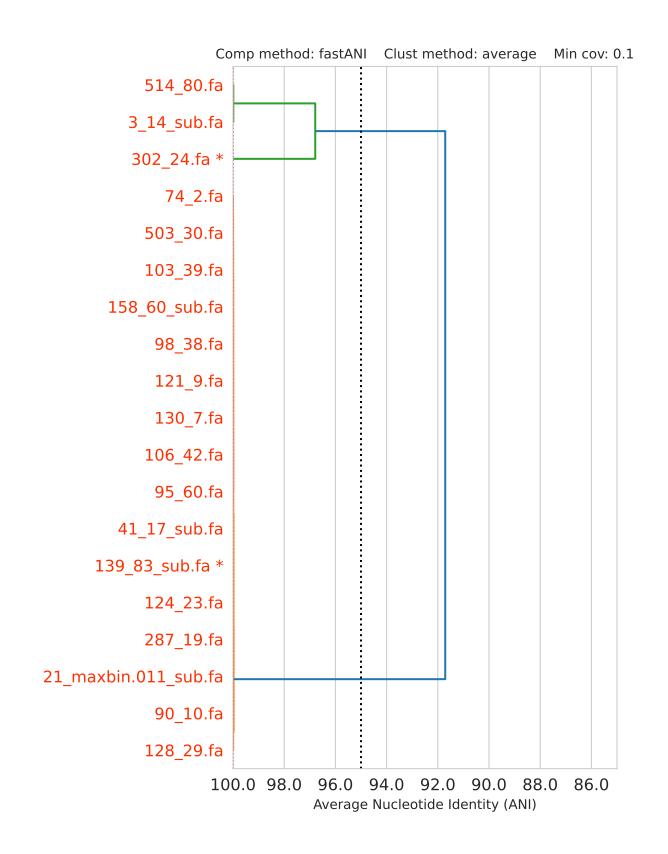


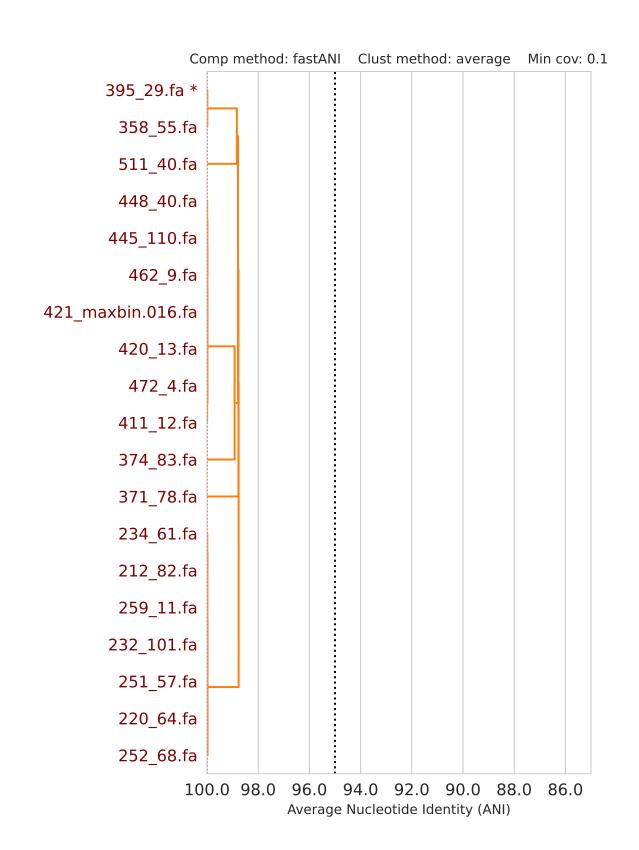


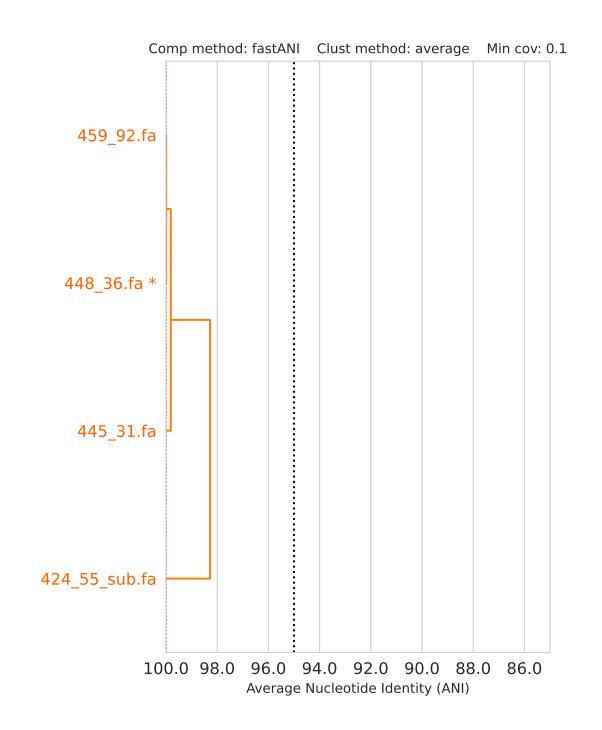


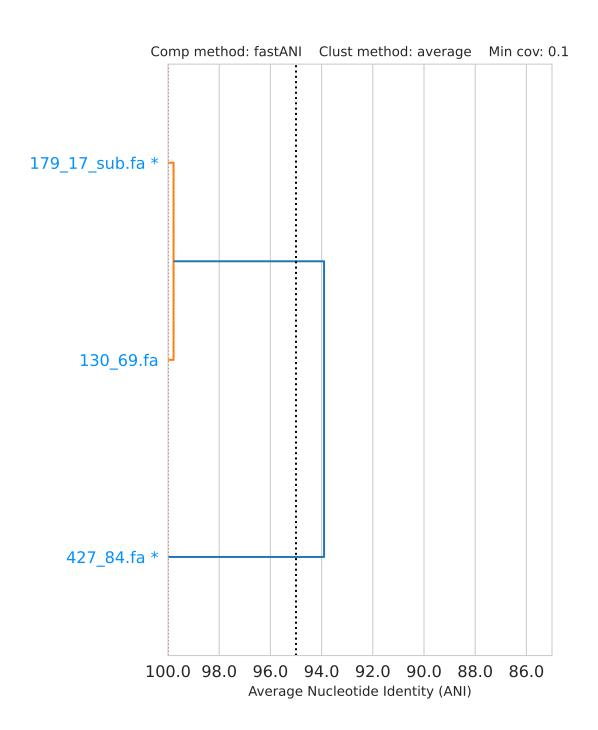


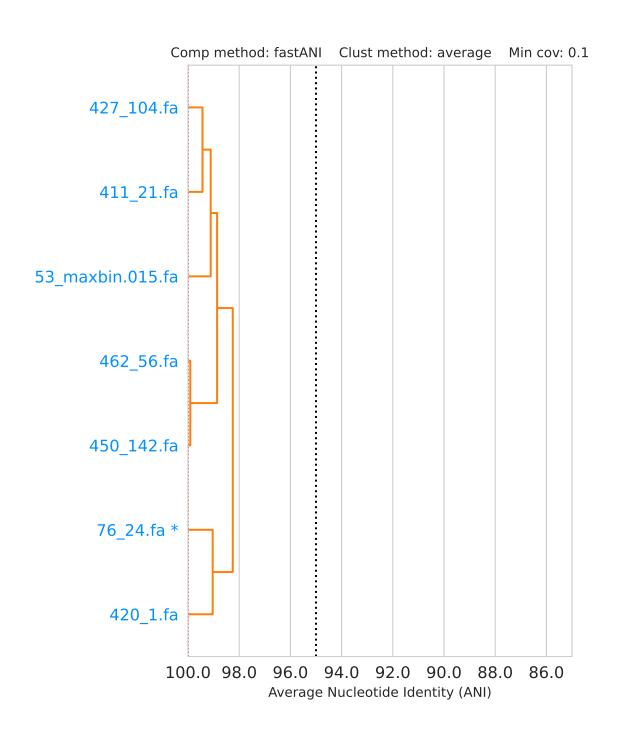


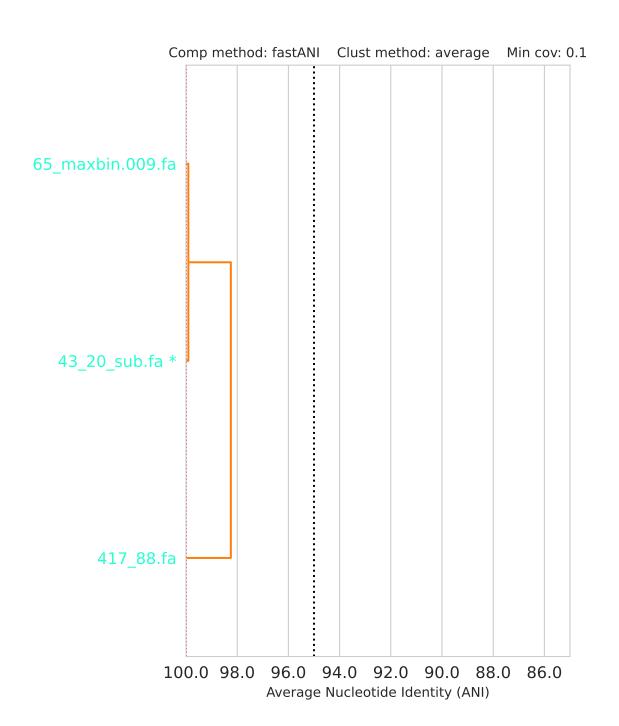


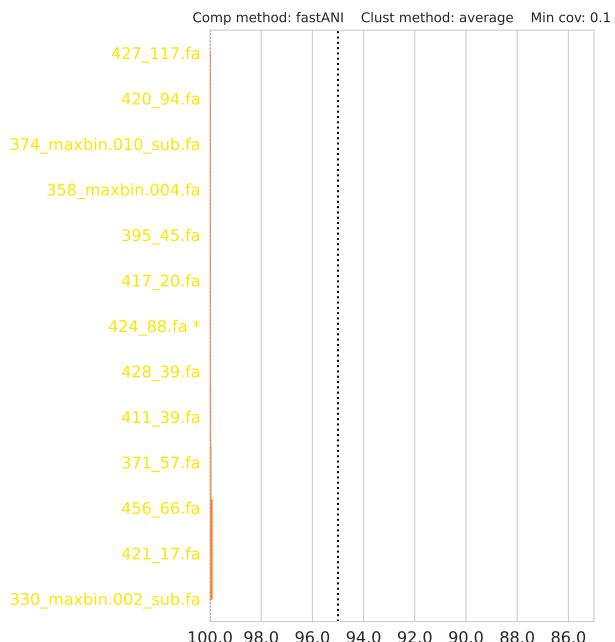












100.0 98.0 96.0 94.0 92.0 90.0 88.0 86.0 Average Nucleotide Identity (ANI)

| 481_maxbin.002.fa                          |                        |                          |   |          |
|--|------------------------|--------------------------|---|----------|
| 479_74.fa<br>573_90.fa                     |                        |                          |   |          |
| 449_103.fa                                 |                        |                          |   |          |
| 563_15.fa<br>486_36.fa                     |                        |                          |   |          |
| 423_0.fa                                   |                        |                          | ] |          |
| 444_62.fa *                                |                        |                          |   |          |
| 422_16.fa<br>567_maxbin.002.fa             |                        |                          |   |          |
| 179_maxbin.006.fa                          |                        |                          |   |          |
| 137_maxbin.005_sub.fa<br>157_4.fa          |                        |                          |   |          |
| 80_64.fa                                   |                        |                          |   |          |
| 155_maxbin.002.fa                          |                        |                          |   |          |
| 204_103.fa<br>120_48.fa                    |                        |                          |   |          |
| 44_45.fa                                   |                        |                          |   |          |
| 38_maxbin.007_sub.fa<br>27_87.fa           |                        |                          |   |          |
| 106_17.fa                                  |                        |                          |   |          |
| 115_43.fa<br>134_3.fa                      |                        |                          |   |          |
| 41_maxbin.009_sub.fa                       |                        |                          |   |          |
| 74_18.fa                                   |                        |                          |   |          |
| 36_24.fa<br>140_33.fa                      |                        |                          |   |          |
| 82_45.fa                                   |                        |                          |   |          |
| 128_61.fa<br>144_35.fa                     |                        |                          |   |          |
| 54_maxbin.002_sub.fa                       |                        |                          |   |          |
| 109_19.fa                                  |                        |                          |   |          |
| 227_5.fa<br>287_48.fa                      |                        |                          |   |          |
| 37_42.fa                                   |                        |                          |   |          |
| 56_2.fa<br>29_maxbin.010.fa                |                        |                          |   |          |
| 252_30.fa                                  |                        |                          |   |          |
| 503_6.fa<br>504_maxbin.009.fa              |                        |                          |   |          |
| 174_65.fa                                  |                        |                          |   |          |
| 34_31.fa                                   |                        |                          |   |          |
| 24_26.fa<br>10_maxbin.006.fa               |                        |                          |   |          |
| 146_18.fa                                  |                        |                          |   |          |
| 188_15.fa<br>168_7.fa                      |                        |                          |   |          |
| 6_132.fa                                   |                        |                          |   |          |
| 21_75.fa                                   |                        |                          |   |          |
| 63_31.fa<br>66_22.fa                       |                        |                          |   |          |
| 51_47.fa                                   |                        |                          |   |          |
| 512_maxbin.008.fa<br>30_11.fa              |                        |                          |   |          |
| 17_1.fa                                    |                        |                          |   |          |
| 159_maxbin.011.fa<br>130_20.fa *           |                        |                          |   |          |
| 507_61.fa                                  |                        |                          |   |          |
| 52_maxbin.004.fa                           |                        |                          |   |          |
| 184_maxbin.006.fa<br>251_maxbin.011.fa     |                        |                          |   |          |
| 160_5.fa                                   |                        |                          |   |          |
| 84_34.fa<br>76_50.fa                       |                        |                          |   |          |
| 119_57.fa                                  |                        |                          |   |          |
| 58_3.fa                                    |                        |                          |   |          |
| 166_42.fa<br>8_22.fa                       |                        |                          |   |          |
| 113_10.fa                                  |                        |                          |   |          |
| 103_3.fa<br>199_maxbin.006.fa              |                        |                          |   |          |
| 234_19.fa                                  |                        |                          |   |          |
| 302_66.fa                                  |                        |                          |   |          |
| 223_116.fa<br>164_12.fa                    |                        |                          |   |          |
| 28_69.fa                                   |                        |                          |   |          |
| 32_45.fa<br>49_59.fa                       |                        |                          |   |          |
| 92_24.fa                                   |                        |                          |   |          |
| 91_58.fa                                   |                        |                          |   |          |
| 158_maxbin.005.fa<br>19_68.fa              |                        |                          |   |          |
| 499_maxbin.001.fa                          |                        |                          |   |          |
| 39_64.fa<br>53_51.fa                       |                        |                          |   |          |
| 62_maxbin.003_sub.fa                       |                        |                          |   |          |
| 26_8.fa                                    |                        |                          |   |          |
| 22_7.fa<br>3_55.fa                         |                        |                          |   |          |
| 528_95.fa                                  |                        |                          |   |          |
| 540_9.fa<br>121_50.fa                      |                        |                          |   |          |
| 23_maxbin.007_sub.fa                       |                        |                          |   |          |
| 175_12.fa                                  |                        |                          |   |          |
| 50_maxbin.010_sub.fa<br>180_44.fa          |                        |                          |   |          |
| 235_34.fa                                  |                        |                          |   |          |
| 294_31.fa<br>31_15.fa                      |                        |                          |   |          |
| -<br>46_76.fa                              |                        |                          |   |          |
| 102_0.fa<br>7_maxbin.011.fa                |                        |                          |   |          |
| 2_48.fa                                    |                        |                          |   |          |
| 25_88.fa                                   |                        |                          |   |          |
| 9_maxbin.007.fa<br>55_3.fa                 |                        |                          |   |          |
| 77_2.fa                                    |                        |                          |   |          |
| 450_82.fa<br>232_12.fa                     |                        |                          |   |          |
| 220_61.fa                                  |                        |                          |   |          |
| 86_48.fa<br>94_13.fa                       |                        |                          |   |          |
| 212_89.fa                                  |                        |                          |   |          |
| 259_maxbin.002.fa<br>43_maxbin.003.fa      |                        |                          |   |          |
| 105_103.fa                                 |                        |                          |   |          |
| 20_64.fa<br>145_48.fa                      |                        |                          |   |          |
| 42_maxbin.006.fa                           |                        |                          |   |          |
| 60_9.fa<br>48_101.fa                       |                        |                          |   |          |
| 95_34.fa                                   |                        |                          |   |          |
| 127_24.fa<br>47_80.fa                      |                        |                          |   |          |
| 90_24.fa                                   |                        |                          |   |          |
| 506_30.fa                                  |                        |                          |   |          |
| 83_30.fa<br>124_78.fa                      |                        |                          |   |          |
| 173_45.fa                                  |                        |                          |   |          |
| 40_maxbin.012.fa<br>194_71.fa              |                        |                          |   |          |
| 216_7.fa                                   |                        |                          |   |          |
| 65_18.fa<br>123_60.fa                      |                        |                          |   |          |
| 97_39.fa                                   |                        |                          |   |          |
| 104_52.fa                                  |                        |                          |   |          |
| 171_80.fa<br>12_44.fa                      |                        |                          |   |          |
| 14_14.fa                                   |                        |                          |   |          |
| 98_30.fa<br>64_9.fa                        |                        |                          |   |          |
| 99_61.fa                                   |                        |                          |   |          |
| 558_14.fa                                  |                        |                          |   |          |
| 69_6.fa<br>70_20.fa                        |                        |                          |   |          |
| 16_11.fa                                   |                        |                          |   |          |
| 139_maxbin.012_sub.fa<br>116_maxbin.004.fa |                        |                          |   |          |
| 536_25.fa                                  |                        |                          |   |          |
|  | _                      | -                        | - |          |
| 71_17.fa<br>68_14.fa                       |                        |                          |   |          |
| 68_14.fa                                   | 6.0 94.0<br>erage Nucl | ) 92.0 9<br>leotide Iden |   | 3.0 86.0 |
| 68_14.fa                                   |                        |                          |   |          |
| 68_14.fa                                   |                        |                          |   |          |

