1.7

4.6

74951.0

5.7

3573336.0

3921537.0

3876287.0

4493629.0

4838782.0

5540728.0

3868362.0

5538219.0

3038745.0

5.9

43102.0

2.8

13946.0

15504.0

2.2

31933.0

16829.0

17880.0

19394.0

17043.0

16530.0

11460.0

12717.0

2.2

2.9

3.6

54808.0

3.8

29094.0

31172.0

19371.0

11849.0

16268.0

23576.0

11871.0

15058.0

25895.0

13903.0

15157.0

11287.0

38452.0

11591.0

14621.0

57407.0

30707.0

10367.0

12234.0

17612.0

9941.0

13553.0

11676.0

18241.0

28609.0 6.5

15797.0 5.0

13384.0 4.8

12590.0

14108.0 -3.1

22309.0 -12.9

16658.0 -26.7

10756.0

8430.0 -36.3

0.0

3.2

3.9

4.0

50342.0

60054.0

5.6

5.7

2805393.0

3441644.0

3844738.0

7.7

5.6 3159741.0

7.2

5.8 3141264.0

> 6.4 3339645.0

6.1 3162858.0

6.3

83267.0

7.8 4236861.0

4455399.0

7.6 4124120.0

9.0

4270524.0

8.9 4314392.0

42.9

42.8

41.9

8.1 3703352.0

7.1 3890539.0

8.0

41.9

41.0

7.6 3829788.0

40.2

7.6 3972961.0

38.5

34.9

91131.0 31.4

28.6

21.0

10.6 4364607.0

11.7 4426737.0

13.4

10.6 4364293.0

4666623.0

4437475.0

5598228.0

5041428.0

5124356.0

5253094.0

5485813.0

3628375.0

0.4

2547752.0

0.2

6187030.0

0.6

Normalized Score

4657981.0

8.6 4716038.0

47.6

7.2

51.4

49.2

51.7

51.6

87540.0

4.0

2.3

3.8

3.8

3.8

12812.0

5317175.0

**116**17576.0

96.4

96.7

82.0

78.9

86.3

84.0

84.8

8263880.0

78.0

77.0

79.7

84.0

93.2

93.2

97.0

80.5

81.7

77.0

79.7

75.4

85.6

84.0

82.9

80.0

81.9

82.3

86.3

84.5

81.2

76.2

79.9

77.1

75.5

86.8

88.4

86.9

93.4

80.3

17.2

17.9

77.0

17.1

18.1

78.6

5 length N50

score

8.0

completeness contamination

86.5

90.4 20.9

22.9

23.0

1.0

14.7

7730151.0

87.6

93.0

89.5

68.5

67.5

6691892.0

67.2

67.2

7423593.0

66.4

66.2

66.0

65.5

63.9

61.0

59.6

59.0

57.6

56.1

5078161.0

4665618.0

7077029.0

6794339.0

MO\_234.bin.1.fa -

MO\_135.bin.14.fa -

MO\_188.bin.40.fa

MO\_103.bin.15.fa -

MO\_103.bin.18.fa

MO\_188.bin.8.fa -

MO\_188.bin.57.fa -

MO\_167.bin.42.fa -

MO\_074.bin.2.fa -

MO\_082.bin.18.fa -

MO\_167.bin.6.fa -

MO\_133.bin.26.fa -

MO\_192.bin.19.fa -

MO\_167.bin.30.fa -

MO\_074.bin.1.fa

MO\_035.bin.4.fa -

MO\_167.bin.22.fa -

MO\_197.bin.6.fa -

MO\_082.bin.19.fa -

MO\_192.bin.14.fa -

MO\_167.bin.37.fa -

MO\_035.bin.13.fa -

MO\_074.bin.3.fa -

MO\_188.bin.19.fa -

MO\_071.bin.23.fa -

MO\_071.bin.18.fa -

MO\_082.bin.22.fa -

MO\_207.bin.6.fa -

MO\_004.bin.3.fa -

MO\_167.bin.50.fa -

MO\_082.bin.26.fa -

MO\_077.bin.26.fa

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MO\_188.bin.2.fa -

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MO\_071.bin.17.fa -

MO\_074.bin.8.fa -

MO\_005.bin.4.fa

MO\_140.bin.32.fa -

MO\_167.bin.25.fa -

MO\_082.bin.25.fa

MO\_140.bin.22.fa -

MO\_188.bin.31.fa -

MO\_167.bin.44.fa -

MO\_133.bin.34.fa -

MO\_140.bin.35.fa -

MO\_077.bin.16.fa -

MO\_082.bin.33.fa -

MO\_202.bin.26.fa -

MO\_133.bin.28.fa

MO\_180.bin.1.fa -

Scoring of winning genomes

4179190.0

3304791.0

3930391.0 109877.0

3689809.0 115007.0

3571995.0

4647886.0 174444.0

271093.0

5462929.0

5067010.0

5343895.0 160897.0

7477145.0

7507245.0

6391702.0

6237134.0

5507460.0

7020599.0

7293591.0

5728751.0

4618808.0

4406392.0

3890528.0

3613093.0

3015311.0

4018704.0

5037525.0

4756066.0

5064004.0

5480712.0

5958806.0

3793216.0

MO\_167.bin.55.fa -

MO\_005.bin.18.fa -

MO\_035.bin.25.fa -

MO\_005.bin.9.fa -

MO\_035.bin.22.fa -

MO\_005.bin.12.fa -

MO\_192.bin.15.fa -

MO\_188.bin.44.fa -

MO\_005.bin.11.fa -

MO\_035.bin.2.fa -

MO\_188.bin.50.fa -

MO\_188.bin.34.fa -

MO\_188.bin.32.fa -

MO\_167.bin.47.fa -

MO\_188.bin.29.fa -

MO\_188.bin.5.fa -

MO\_202.bin.2.fa -

MO\_071.bin.1.fa -

MO\_133.bin.10.fa -

MO\_167.bin.39.fa -

MO\_167.bin.27.fa -

MO\_167.bin.19.fa -

MO\_074.bin.10.fa -

MO\_207.bin.15.fa -

MO\_226.bin.1.fa -

MO\_167.bin.51.fa -

MO\_192.bin.16.fa -

MO\_167.bin.12.fa -

MO\_102.bin.8.fa

MO\_167.bin.34.fa -

MO\_199.bin.6.fa -

MO\_035.bin.30.fa -

MO\_202.bin.23.fa -

MO\_167.bin.41.fa -

MO\_074.bin.17.fa -

MO\_140.bin.29.fa -

MO\_226.bin.13.fa -

MO\_077.bin.14.fa

MO\_167.bin.29.fa -

0.3

0.5

0.9

0.8

0.8

1.1

1.4

1.5

1.3

30258.0

30439.0

0.8

0.8

19974.0

21497.0

2.0

1.0

0.3

20927.0

19524.0

1.5

29411.0

2.2

35571.0

57360.0

1.8

2.0

32626.0

2.6

31811.0

31340.0

2.5

1277363.0 31434.0

2.7

2.5

33479.0

1.5

18222.0

22980.0

3.2

4.1

64044.0

3.8

3.5

125635.0

3111412.0

3958411.0 161273.0

2351912.0

2.9

18942.0

1.6

19060.0

21528.0

0.7

14739.0

2.5

30275.0

0.4

13315.0

27689.0

1.6

1.1

45571.0

2054334.0 35383.0

101565.0

3638617.0

3175331.0

36381.0

44703.0

44427.0

99.1

100 8

99.2

97.0

96.8

95.7

95.8

95.5

95.0

95.0

94.6

96.1

98.0

97.5

96.1

94.0

91.0

90.7

91.4

92.0

97.5

89.2

89.0

86.5

87.0

86.4

86.1

85.9

85.9

85.7

84.2

84.1

81.8

82.0

81.4

81.3

80.9

80.4

80.0

79.8

79.6

79.5

81.8

9636633.0

90.1

90.9

92.7

98.3

97.5

87.8

8455803.0

7661875.0

91.0

95.0

94.8

97.7

94.8

96.9

98.4

96.8

476043.0 99.3

364506.0