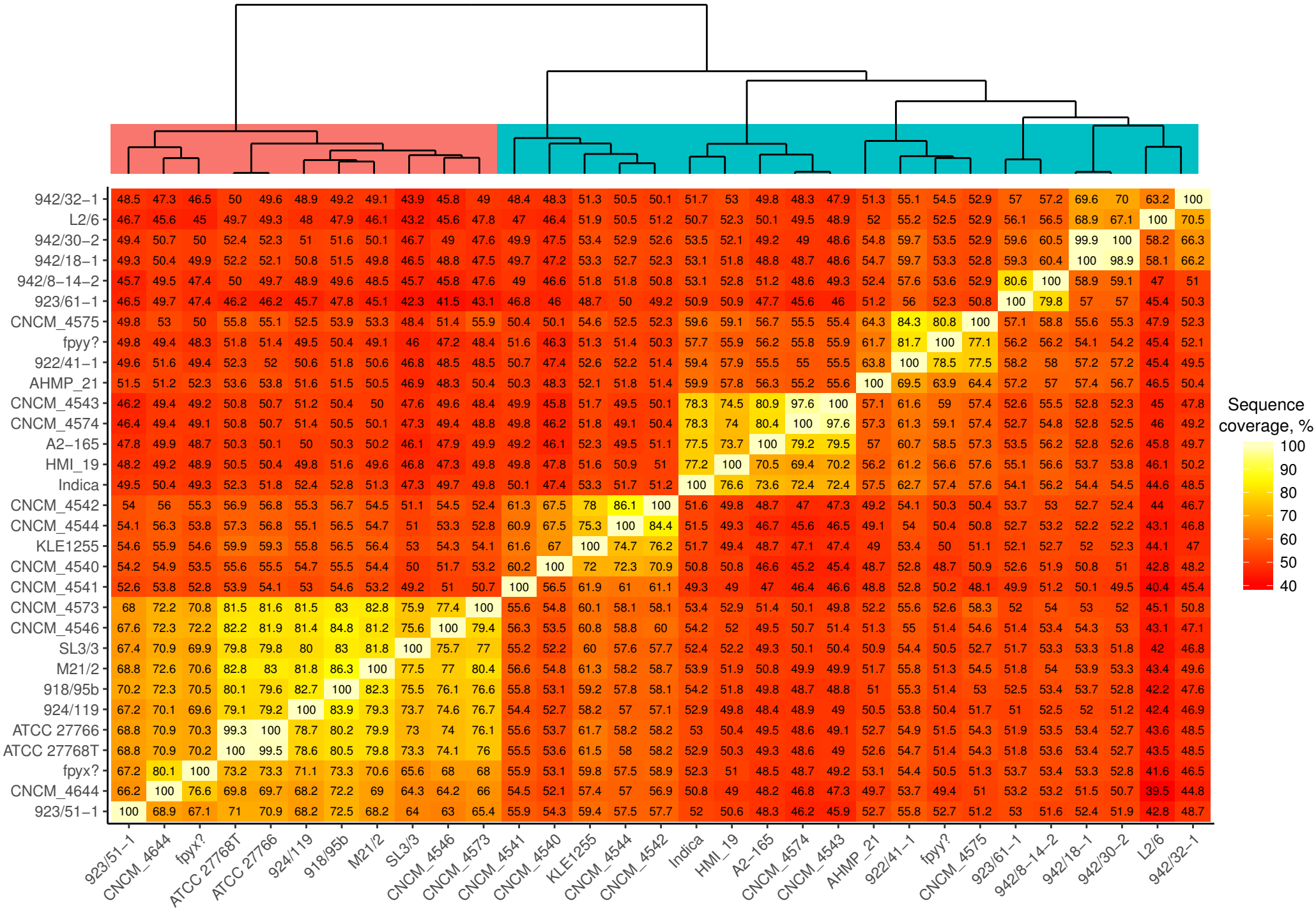
942/32–1 48.5 47.3 46.5 50 49.6 48.9 49.2 49.1 43.9 45.8 49 48.4 48.3 51.3 50.5 50.1 51.7 53 49.8 48.3 47.9 51.3 55.1 54.5 52.9 57 57.2 69.6 70 63.2 100
L2/6 46.7 45.6 45 49.7 49.3 48 47.9 46.1 43.2 45.6 47.8 47 46.4 51.9 50.5 51.2 50.7 52.3 50.1 49.5 48.9 52 55.2 52.5 52.9 56.1 56.5 68.9 67.1 100 70.5
942/30–2 49.4 50.7 50 52.4 52.3 51 51.6 50.1 46.7 49 47.6 49.9 47.5 53.4 52.9 52.6 53.5 52.1 49.2 49 48.6 54.8 59.7 53.5 52.9 59.6 60.5 99.9 100 58.2 66.3
942/18–1 49.3 50.4 49.9 52.2 52.1 50.8 51.5 49.8 46.5 48.8 47.5 49.7 47.2 53.3 52.7 52.3 53.1 51.8 48.8 48.7 48.6 54.7 59.7 53.3 52.8 59.3 60.4 100 98.9 58.1 66.2
942/8–14–2 45.7 49.5 47.4 50 49.7 48.9 49.6 48.5 45.7 45.8 47.6 49 46.6 51.8 51.8 50.8 53.1 52.8 51.2 48.6 49.3 52.4 57.6 53.6 52.9 80.6 100 58.9 59.1 47 51
923/61–1 46.5 49.7 47.4 46.2 46.2 45.7 47.8 45.1 42.3 41.5 43.1 46.8 46 48.7 50 49.2 50.9 50.9 47.7 45.6 46 51.2 56 52.3 50.8 100 79.8 57 57 45.4 50.3
CNCM_4575 49.8 53 50 55.8 55.1 52.5 53.9 53.3 48.4 51.4 55.9 50.4 50.1 54.6 52.5 52.3 59.6 59.1 56.7 55.5 55.4 64.3 84.3 80.8 100 57.1 58.8 55.6 55.3 47.9 52.3
fpyy? 49.8 49.4 48.3 51.8 51.4 49.5 50.4 49.1 46 47.2 48.4 51.6 46.3 51.3 51.4 50.3 57.7 55.9 56.2 55.8 55.9 61.7 81.7 100 77.1 56.2 56.2 54.1 54.2 45.4 52.1
922/41–1 49.6 51.6 49.4 52.3 52 50.6 51.8 50.6 46.8 48.5 48.5 50.7 47.4 52.6 52.2 51.4 59.4 57.9 55.5 55 55.5 63.8 100 78.5 77.5 58.2 58 57.2 57.2 45.4 49.5
AHMP_21 51.5 51.2 52.3 53.6 53.8 51.6 51.5 50.5 46.9 48.3 50.4 50.3 48.3 52.1 51.8 51.4 59.9 57.8 56.3 55.2 55.6 100 69.5 63.9 64.4 57.2 57 57.4 56.7 46.5 50.4
CNCM_4543 46.2 49.4 49.2 50.8 50.7 51.2 50.4 50 47.6 49.6 48.4 49.9 45.8 51.7 49.5 50.1 78.3 74.5 80.9 97.6 100 57.1 61.6 59 57.4 52.6 55.5 52.8 52.3 45 47.8
CNCM_4574 46.4 49.4 49.1 50.8 50.7 51.4 50.5 50.1 47.3 49.4 48.8 49.8 46.2 51.8 49.1 50.4 78.3 74 80.4 100 97.6 57.3 61.3 59.1 57.4 52.7 54.8 52.8 52.5 46 49.2
A2–165 47.8 49.9 48.7 50.3 50.1 50 50.3 50.2 46.1 47.9 49.9 49.2 46.1 52.3 49.5 51.1 77.5 73.7 100 79.2 79.5 57 60.7 58.5 57.3 53.5 56.2 52.8 52.6 45.8 49.7
HMI_19 48.2 49.2 48.9 50.5 50.4 49.8 51.6 49.6 46.8 47.3 49.8 49.8 47.8 51.6 50.9 51 77.2 100 70.5 69.4 70.2 56.2 61.2 56.6 57.6 55.1 56.6 53.7 53.8 46.1 50.2
Indica 49.5 50.4 49.3 52.3 51.8 52.4 52.8 51.3 47.3 49.7 49.8 50.1 47.4 53.3 51.7 51.2 100 76.6 73.6 72.4 72.4 57.5 62.7 57.4 57.6 54.1 56.2 54.4 54.5 44.6 48.5
CNCM_4542 54 56 55.3 56.9 56.8 55.3 56.7 54.5 51.1 54.5 52.4 61.3 67.5 78 86.1 100 51.6 49.8 48.7 47 47.3 49.2 54.1 50.3 50.4 53.7 53 52.7 52.4 44 46.7
CNCM_4544 54.1 56.3 53.8 57.3 56.8 55.1 56.5 54.7 51 53.3 52.8 60.9 67.5 75.3 100 84.4 51.5 49.3 46.7 45.6 46.5 49.1 54 50.4 50.8 52.7 53.2 52.2 52.2 43.1 46.8
KLE1255 54.6 55.9 54.6 59.9 59.3 55.8 56.5 56.4 53 54.3 54.1 61.6 67 100 74.7 76.2 51.7 49.4 48.7 47.1 47.4 49 53.4 50 51.1 52.1 52.7 52 52.3 44.1 47
CNCM_4540 54.2 54.9 53.5 55.6 55.5 54.7 55.5 54.4 50 51.7 53.2 60.2 100 72 72.3 70.9 50.8 50.8 46.6 45.2 45.4 48.7 52.8 48.7 50.9 52.6 51.9 50.8 51 42.8 48.2
CNCM_4541 52.6 53.8 52.8 53.9 54.1 53 54.6 53.2 49.2 51 50.7 100 56.5 61.9 61 61.1 49.3 49 47 46.4 46.6 48.8 52.8 50.2 48.1 49.9 51.2 50.1 49.5 40.4 45.4
CNCM_4573 68 72.2 70.8 81.5 81.6 81.5 83 82.8 75.9 77.4 100 55.6 54.8 60.1 58.1 58.1 53.4 52.9 51.4 50.1 49.8 52.2 55.6 52.6 58.3 52 54 53 52 45.1 50.8
CNCM_4546 67.6 72.3 72.2 82.2 81.9 81.4 84.8 81.2 75.6 100 79.4 56.3 53.5 60.8 58.8 60 54.2 52 49.5 50.7 51.4 51.3 55 51.4 54.6 51.4 53.4 54.3 53 43.1 47.1
SL3/3 67.4 70.9 69.9 79.8 79.8 80 83 81.8 100 75.7 77 55.2 52.2 60 57.6 57.7 52.4 52.2 49.3 50.1 50.4 50.9 54.4 50.5 52.7 51.7 53.3 53.3 51.8 42 46.8
M21/2 68.8 72.6 70.6 82.8 83 81.8 86.3 100 77.5 77 80.4 56.6 54.8 61.3 58.2 58.7 53.9 51.9 50.8 49.9 49.9 51.7 55.8 51.3 54.5 51.8 54 53.9 53.3 43.4 49.6
918/95b 70.2 72.3 70.5 80.1 79.6 82.7 100 82.3 75.5 76.1 76.6 55.8 53.1 59.2 57.8 58.1 54.2 51.8 49.8 48.7 48.8 51 55.3 51.4 53 52.5 53.4 53.7 52.8 42.2 47.6
924/119 67.2 70.1 69.6 79.1 79.2 100 83.9 79.3 73.7 74.6 76.7 54.4 52.7 58.2 57 57.1 52.9 49.8 48.4 48.9 49 50.5 53.8 50.4 51.7 51 52.5 52 51.2 42.4 46.9
ATCC 27766 68.8 70.9 70.3 99.3 100 78.7 80.2 79.9 73 74 76.1 55.6 53.7 61.7 58.2 58.2 53 50.4 49.5 48.6 49.1 52.7 54.9 51.5 54.3 51.9 53.5 53.4 52.7 43.6 48.5
ATCC 27768T 68.8 70.9 70.2 100 99.5 78.6 80.5 79.8 73.3 74.1 76 55.5 53.6 61.5 58 58.2 52.9 50.3 49.3 48.6 49 52.6 54.7 51.4 54.3 51.8 53.6 53.4 52.7 43.5 48.5
fpyx? 67.2 80.1 100 73.2 73.3 71.1 73.3 70.6 65.6 68 68 55.9 53.1 59.8 57.5 58.9 52.3 51 48.5 48.7 49.2 53.1 54.4 50.5 51.3 53.7 53.4 53.3 52.8 41.6 46.5
CNCM_4644 66.2 100 76.6 69.8 69.7 68.2 72.2 69 64.3 64.2 66 54.5 52.1 57.4 57 56.9 50.8 49 48.2 46.8 47.3 49.7 53.7 49.4 51 53.2 53.2 51.5 50.7 39.5 44.8
923/51–1 100 68.9 67.1 71 70.9 68.2 72.5 68.2 64 63 65.4 55.9 54.3 59.4 57.5 57.7 52 50.6 48.3 46.2 45.9 52.7 55.8 52.7 51.2 53 51.6 52.4 51.9 42.8 48.7
923/51–1 CNCM_4644 fpyx? ATCC 27768T ATCC 27766 924/119 918/95b M21/2 SL3/3 CNCM_4546 CNCM_4573 CNCM_4541 CNCM_4540 KLE1255 CNCM_4544 CNCM_4542 Indica HMI_19 A2–165 CNCM_4574 CNCM_4543 AHMP_21 922/41–1 fpyy? CNCM_4575 923/61–1 942/8–14–2 942/18–1 942/30–2 L2/6 942/32–1
Sequence coverage, %
100
90
80
70
60
50
40