

Supplementary Table 1B

| Profiles in | relevant genotype                                       | Yeast Strain | Condition   | mapped reads | smooth window | number peaks before filter | number peaks after filter | mean peak width after filter (kb) | SD (kb) | median profile height |
|-------------|---------------------------------------------------------|--------------|-------------|--------------|---------------|----------------------------|---------------------------|-----------------------------------|---------|-----------------------|
| Fig. 6A     | WT                                                      | YS2571       | YPD, 25 min | 21,381,611   | 1000 bp       | 206                        | 99                        | 7.2                               | 1.2     | 1.70%                 |
| Fig. 6A     | <i>mcm4</i> <sup>Δ2-145</sup>                           | YS2758       | YPD, 25 min | 13,296,061   | 1000 bp       | 186                        | 72                        | 8.1                               | 1.3     | 2.10%                 |
| Fig. 6A     | <i>mcm4</i> <sup>Δ2-174</sup>                           | YS2585       | YPD, 25 min | 8,314,459    | 1000 bp       | 207                        | 136                       | 7                                 | 1.3     | 6.80%                 |
| Fig. 6A     | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2574       | YPD, 25 min | 25,590,224   | 1000 bp       | 210                        | 120                       | 7.1                               | 1       | 2.80%                 |
| Fig. 6A     | <i>mcm4</i> <sup>Δ74-174, 4(SP→AP)</sup>                | YS2761       | YPD, 25 min | 13,003,604   | 1000 bp       | 174                        | 76                        | 8.8                               | 1.5     | 3.20%                 |
| Fig. 6A     | <i>mcm4</i> <sup>Δ74-174, 4(SP→DP)</sup>                | YS2764       | YPD, 25 min | 21,982,699   | 1000 bp       | 197                        | 107                       | 8.1                               | 1.3     | 3.50%                 |
|             |                                                         |              |             |              |               |                            |                           |                                   |         |                       |
| Fig. S2A    | WT                                                      | YS2571       | YPD, 25 min | 1,449,684    | 1000 bp       | 206                        | 84                        | 7.3                               | 1.1     | 4.10%                 |
| Fig. S2A    | <i>mcm4</i> <sup>Δ2-145</sup>                           | YS2758       | YPD, 25 min | 2,667,099    | 1000 bp       | 160                        | 66                        | 8.9                               | 2.7     | 7.00%                 |
| Fig. S2A    | <i>mcm4</i> <sup>Δ2-174</sup>                           | YS2585       | YPD, 25 min | 1,641,889    | 1000 bp       | 213                        | 114                       | 6.8                               | 1.4     | 5.30%                 |
| Fig. S2A    | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2574       | YPD, 25 min | 955,874      | 1000 bp       | 229                        | 111                       | 5.9                               | 1       | 1.90%                 |
| Fig. S2A    | <i>mcm4</i> <sup>Δ74-174, 4(SP→AP)</sup>                | YS2761       | YPD, 25 min | 2,882,097    | 1000 bp       | 108                        | 69                        | 10.5                              | 3.5     | 14.40%                |
| Fig. S2A    | <i>mcm4</i> <sup>Δ74-174, 4(SP→DP)</sup>                | YS2764       | YPD, 25 min | 1,299,580    | 1000 bp       | 202                        | 93                        | 7.5                               | 1.6     | 2.80%                 |
|             |                                                         |              |             |              |               |                            |                           |                                   |         |                       |
| Fig. S2B    | WT                                                      | YS2571       | YPD, 25 min | 2,800,810    | 1000 bp       | 202                        | 85                        | 7.7                               | 1.1     | 2.10%                 |
| Fig. S2B    | <i>mcm4</i> <sup>Δ2-145</sup>                           | YS2758       | YPD, 25 min | 4,437,206    | 1000 bp       | 158                        | 62                        | 9                                 | 1.9     | 3.30%                 |
| Fig. S2B    | <i>mcm4</i> <sup>Δ2-174</sup>                           | YS2585       | YPD, 25 min | 2,108,936    | 1000 bp       | 196                        | 112                       | 7.8                               | 1.7     | 5.30%                 |
| Fig. S2B    | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2574       | YPD, 25 min | 1,544,096    | 1000 bp       | 208                        | 115                       | 6.7                               | 1.1     | 2.80%                 |
| Fig. S2B    | <i>mcm4</i> <sup>Δ74-174, 4(SP→AP)</sup>                | YS2761       | YPD, 25 min | 3,746,912    | 1000 bp       | 153                        | 67                        | 9.4                               | 2.3     | 5.60%                 |
| Fig. S2B    | <i>mcm4</i> <sup>Δ74-174, 4(SP→DP)</sup>                | YS2764       | YPD, 25 min | 2,981,241    | 1000 bp       | 183                        | 90                        | 8.5                               | 1.3     | 4.10%                 |
|             |                                                         |              |             |              |               |                            |                           |                                   |         |                       |
| Fig. 7A     | WT                                                      | YS2828       | YPD, 25 min | 5,880,287    | 1000 bp       | 236                        | 98                        | 4.8                               | 1       | 0.80%                 |
| Fig. 7A     | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2899       | YPD, 25 min | 8,532,204    | 1000 bp       | 252                        | 110                       | 3.8                               | 0.7     | 0.70%                 |
| Fig. 7A     | <i>sld3-38A</i>                                         | YS2830       | YPD, 25 min | 7,370,826    | 1000 bp       | 237                        | 97                        | 4.7                               | 1       | 0.60%                 |
| Fig. 7A     | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A</i>          | YS2886       | YPD, 25 min | 3,769,402    | 1000 bp       | 245                        | 124                       | 4.6                               | 0.9     | 1.30%                 |
| Fig. 7A     | <i>dbf4-19A</i>                                         | YS2902       | YPD, 25 min | 17,717,050   | 1000 bp       | 178                        | 70                        | 7.8                               | 1.9     | 1.50%                 |
| Fig. 7A     | <i>mcm4</i> <sup>Δ74-174</sup> <i>dbf4-19A</i>          | YS2890       | YPD, 25 min | 6,040,131    | 1000 bp       | 231                        | 114                       | 5.3                               | 1.2     | 2.00%                 |
| Fig. 7A     | <i>sld3-38A dbf4-19A</i>                                | YS2906       | YPD, 25 min | 4,409,073    | 1000 bp       | 216                        | 73                        | 4.7                               | 1       | 0.50%                 |
| Fig. 7A     | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A dbf4-19A</i> | YS2894       | YPD, 25 min | 10,194,071   | 1000 bp       | 239                        | 100                       | 4.4                               | 0.8     | 1.10%                 |
|             |                                                         |              |             |              |               |                            |                           |                                   |         |                       |
| Fig. S3A    | WT                                                      | YS2828       | YPD, 25 min | 2,615,905    | 1000 bp       | 210                        | 87                        | 6.5                               | 1.1     | 2.30%                 |
| Fig. S3A    | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2899       | YPD, 25 min | 1,875,103    | 1000 bp       | 213                        | 93                        | 7.4                               | 1.1     | 3.30%                 |
| Fig. S3A    | <i>sld3-38A</i>                                         | YS2830       | YPD, 25 min | 2,151,364    | 1000 bp       | 219                        | 89                        | 6.7                               | 1.2     | 2.00%                 |
| Fig. S3A    | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A</i>          | YS2886       | YPD, 25 min | 2,529,773    | 1000 bp       | 210                        | 93                        | 7.2                               | 0.9     | 2.80%                 |
| Fig. S3A    | <i>dbf4-19A</i>                                         | YS2902       | YPD, 25 min | 1,317,138    | 1000 bp       | 172                        | 58                        | 10.5                              | 2.2     | 2.30%                 |
| Fig. S3A    | <i>mcm4</i> <sup>Δ74-174</sup> <i>dbf4-19A</i>          | YS2890       | YPD, 25 min | 3,119,755    | 1000 bp       | 189                        | 100                       | 8.2                               | 1.6     | 5.40%                 |
| Fig. S3A    | <i>sld3-38A dbf4-19A</i>                                | YS2906       | YPD, 25 min | 1,547,433    | 1000 bp       | 215                        | 73                        | 7.6                               | 1.6     | 3.10%                 |
| Fig. S3A    | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A dbf4-19A</i> | YS2894       | YPD, 25 min | 2,918,134    | 1000 bp       | 205                        | 86                        | 7.5                               | 1.4     | 2.90%                 |
|             |                                                         |              |             |              |               |                            |                           |                                   |         |                       |
| Fig. S3B    | WT                                                      | YS2828       | YPD, 25 min | 4,919,215    | 1000 bp       | 210                        | 91                        | 7.1                               | 1.3     | 1.30%                 |
| Fig. S3B    | <i>mcm4</i> <sup>Δ74-174</sup>                          | YS2899       | YPD, 25 min | 4,264,043    | 1000 bp       | 189                        | 98                        | 8.4                               | 1.1     | 3.40%                 |
| Fig. S3B    | <i>sld3-38A</i>                                         | YS2830       | YPD, 25 min | 2,589,949    | 1000 bp       | 201                        | 89                        | 7.5                               | 1.3     | 1.40%                 |
| Fig. S3B    | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A</i>          | YS2886       | YPD, 25 min | 4,625,531    | 1000 bp       | 204                        | 112                       | 7.7                               | 1.2     | 3.40%                 |
| Fig. S3B    | <i>dbf4-19A</i>                                         | YS2902       | YPD, 25 min | 2,534,627    | 1000 bp       | 161                        | 60                        | 11.2                              | 2.5     | 1.60%                 |
| Fig. S3B    | <i>mcm4</i> <sup>Δ74-174</sup> <i>dbf4-19A</i>          | YS2890       | YPD, 25 min | 5,620,260    | 1000 bp       | 171                        | 97                        | 9.2                               | 1.9     | 5.80%                 |
| Fig. S3B    | <i>sld3-38A dbf4-19A</i>                                | YS2906       | YPD, 25 min | 3,455,025    | 1000 bp       | 181                        | 68                        | 8.8                               | 1.6     | 1.30%                 |
| Fig. S3B    | <i>mcm4</i> <sup>Δ74-174</sup> <i>sld3-38A dbf4-19A</i> | YS2894       | YPD, 25 min | 5,873,517    | 1000 bp       | 192                        | 89                        | 7.9                               | 1.4     | 3.40%                 |