

### Supplementary file 3. Doubling times and cell sizes

| Strain Number | Doubling time (min, mean $\pm$ std) | Cell length ( $\mu\text{m}$ , mean $\pm$ std) | Cell width ( $\mu\text{m}$ , mean $\pm$ std) |
|---------------|-------------------------------------|-----------------------------------------------|----------------------------------------------|
| SK1 (MG1655)  | 82 $\pm$ 10                         | –                                             | –                                            |
| SK98          | 95.0 $\pm$ 9.40                     | --                                            | --                                           |
| SK187         | 89 $\pm$ 9                          | 3.362 $\pm$ 0.475                             | 1.068 $\pm$ 0.066                            |
| SK249         | 106 $\pm$ 6                         | 3.582 $\pm$ 0.547                             | 1.053 $\pm$ 0.067                            |
| SK292         | 83.2 $\pm$ 3.2                      | 3.287 $\pm$ 0.479                             | 1.088 $\pm$ 0.050                            |
| SK304         | 93 $\pm$ 11                         | 3.284 $\pm$ 0.516                             | 1.083 $\pm$ 0.054                            |
| SK308         | 69.8 $\pm$ 1.1                      | 3.206 $\pm$ 0.479                             | 1.083 $\pm$ 0.050                            |
| SK373         | 78 $\pm$ 4                          | 3.459 $\pm$ 0.447                             | 1.122 $\pm$ 0.063                            |
| SK374         | 70.8 $\pm$ 3.7                      | 3.333 $\pm$ 0.444                             | 1.139 $\pm$ 0.057                            |
| SK404         | 90 $\pm$ 7                          | 3.27 $\pm$ 0.03                               | 1.161 $\pm$ 0.004                            |
| SK411         | 87.6 $\pm$ 3.6                      | 3.26 $\pm$ 0.03                               | 1.121 $\pm$ 0.004                            |
| SK424         | 83 $\pm$ 8                          | 3.24 $\pm$ 0.03                               | 1.103 $\pm$ 0.004                            |
| SK425         | 81 $\pm$ 7                          | 3.35 $\pm$ 0.02                               | 1.098 $\pm$ 0.003                            |
| SK455         | 88 $\pm$ 2                          | 3.48 $\pm$ 0.03                               | 1.113 $\pm$ 0.002                            |
| SK466         | 87 $\pm$ 11                         | 3.18 $\pm$ 0.03                               | 1.119 $\pm$ 0.003                            |
| SK467         | 89 $\pm$ 10                         | 3.25 $\pm$ 0.03                               | 1.093 $\pm$ 0.004                            |
| SK507         | 89 $\pm$ 10                         | 3.09 $\pm$ 0.03                               | 1.142 $\pm$ 0.005                            |
| SK592         | 94.1 $\pm$ 0.9                      | 3.27 $\pm$ 0.02                               | 1.188 $\pm$ 0.003                            |
| SK595         | 98.5 $\pm$ 3.3                      | --                                            | --                                           |
| SK598         | 93.6 $\pm$ 7.2                      | 3.08 $\pm$ 0.02                               | 1.050 $\pm$ 0.002                            |
| SK741         | 94.0 $\pm$ 3.6                      | 3.49 $\pm$ 0.03                               | 1.034 $\pm$ 0.002                            |
| SK742         | 99.7 $\pm$ 4.6                      | 3.43 $\pm$ 0.03                               | 1.031 $\pm$ 0.003                            |
| SK743         | 102.4 $\pm$ 3.0                     | 3.51 $\pm$ 0.03                               | 1.047 $\pm$ 0.002                            |
| SK748         | 94.8 $\pm$ 4.0                      | 3.59 $\pm$ 0.03                               | 1.203 $\pm$ 0.003                            |
| SK749         | 95.2 $\pm$ 3.4                      | 3.34 $\pm$ 0.03                               | 1.183 $\pm$ 0.004                            |

|                                 |                  |                 |                   |
|---------------------------------|------------------|-----------------|-------------------|
| SK750                           | $93.7 \pm 3.3$   | $3.33 \pm 0.02$ | $1.161 \pm 0.003$ |
| SK187<br>(M9 succinate at 30°C) | $153 \pm 19$ min | $3.37 \pm 0.02$ | $0.970 \pm 0.002$ |