**Supplementary File 1. Permutations of coordinately timed peaks in cells in two-cell colonies**

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|  |  number of colonies with coordinated peaks(out of 56 total) | Fraction of permutations with coordinated peak number equal or greater to actual number of colonies with coordinated peaks\* |
| Dot6 coordinated peak | 15 | 9.5 x 10-4 |
| Msn2 coordinated peak | 6 | 0.19 |

\* There were 50,000 iterations of permutations for each comparison.