

PhD thesis – To Rebehold the Cell: Natural and Synthetic Cell Cycles Through the Lenses of Macromolecular Motion – Lorenzo Olivi

Chapter 5 - A synthetic, homeostatic genetic circuit enables titration-based control of DNA replication initiation in *Escherichia coli*

SUPPLEMENTARY MATERIAL - CONTENTS

DOCUMENT 1 - A synthetic, homeostatic genetic circuit enables titration-based control of DNA replication initiation in *Escherichia coli*

Supplementary file

- Table S5.1. List of bacterial strains used in this study.
- Table S5.2. List of plasmids used in this study.
- Table S5.3. List of oligonucleotides and DNA fragments mentioned in the study.
- Figure S5.1. Separation of standard and experimental cell by MitoTracker™ intensity.
- Figure S5.2. Growth curves of *E. coli* CoRTeDcos in slow growth regime in different concentrations of aTc.
- Figure S5.3. . Growth curves of *E. coli* CoRTeDcos in intermediate growth regime in different concentrations of aTc.
- Figure S5.4. . Growth curves of *E. coli* CoRTeDcos in fast growth regime in different concentrations of aTc.
- Figure S5.5. Growth curves of *E. coli* MG1655 in all growth regimes in different concentrations of aTc.
- Table S5.4. List of mutations identified by whole genome sequencing in *E. coli* MG1655, *E. coli* CoRTeDcos and *E. coli* CoRTeDcos-R2G.
- Source data tables.