

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Overview of FadRSa-DNA interactions identified in the cocrystal structure for one of the DNA duplexes (XY)

File Name: Supplementary Data 2

Description: Summary of RNA-seq data

File Name: Supplementary Data 3

Description: Overview of the FadRSa-lauroyl-CoA interactions identified in the ligandbound cocrystal structure of the subunits (subunit B)

File Name: Supplementary Data 4

Description: Overview of oligonucleotides used in this work