

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: : Data points for Supplementary Figure S4, panel c – RMSF plot. XLSX format.

File name: Supplementary Data 2

Description: Data points for Supplementary Figure S4, panel b – RMSD plot. XLSX format.

File name: Supplementary Data 3

Description: Data points for the ANS fluorescence in Figure 2 b. XLSX format.

File name: Supplementary Data 4

Description: Dataframe for Figure 2c, Estimated ΔG of WT and R206C. XLXS format.

File name: Supplementary Data 5

Description: : Data points for Figure 4d. Active site calculated pKa values. Format XLXS.

File name: Supplementary Data 6

Description: Data for fluorescence Polarization. Format XLXS.

File name: Supplementary Data 7

Description: Data for Figure 5a. EC50. Format XLXS.

File name: Supplementary Data 8

Description: Data for Figure 5b. Barrier to transfection data. Format XLXS.

File name: Supplementary Data 9

Description: Data for Figure 5c. Immune Complex Degradation. Format XLXS.

File name: Supplementary Data 10

Description: Data for Figure 5d. EC50 for immune complex degradation. Format XLXS.

File name: Supplementary Data 11

Description: Data for Figure 6a. Fluorescence Polarization of DNA + CTD. Formation XLXS.

File name: Supplementary Data 12

Description: Excel Workbook of Figure 6c, circular dichroism data at various [DNA]. Format XLXS.

File name: Supplementary Data 13

Description: Excel Workbook of SAXS data for Figure 6e. Format XLXS.