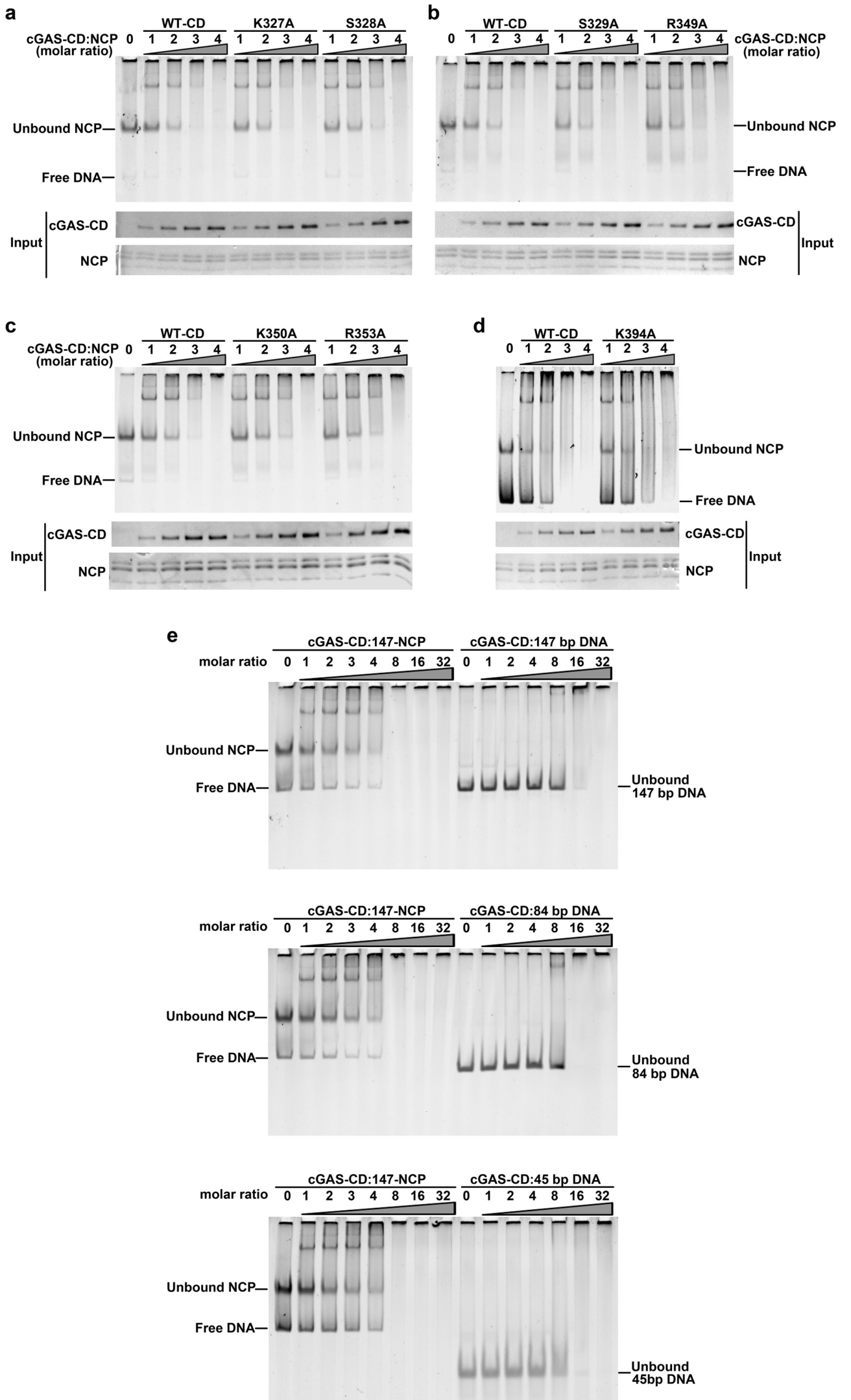

Supplementary information, Fig. S6 Binding of the cGAS-CD mutants to mononucleosomes. EMSA analysis for binding of cGAS-CD mutants K327A and S328A (**a**), S329A and R349A (**b**), K350A and R353A (**c**), K394A (**d**). The monomeric cGAS-CD proteins were used in the EMSA assays. Each lane contains 1 pmol of nucleosome reacting with 1 to 4 pmol of cGAS protein. The molar ratio of cGAS to the nucleosome is indicated at the top of the gel. **e** Comparison of the binding abilities of the monomeric cGAS-CD toward the nucleosome or the free dsDNA in different lengths. Each lane contains 1 pmol of nucleosome or free dsDNA reacting with 1 to 32 pmol of cGAS protein. The molar ratio of cGAS to the nucleosome or free dsDNA is indicated at the top of the gel. The 147 bp, 84 bp and 45 bp dsDNA were used in the EMSA experiments.