

Figure S1. Similar structures of cjRecR (green), paRecR (PDB ID 5Z2V; cyan), ttRecR (PDB ID 5ZVQ; magenta), drRecR (PDB ID 1VDD; gray), and csRecR (PDB ID 3VDP; yellow). RecR proteins and zinc ions are shown as C α traces and spheres, respectively. **(A)** Similar monomer structures of RecR orthologs. **(B)** Similar tetramer structures of RecR orthologs. The tetrameric structures are overlaid using the monomer structures shown in Fig. S1A.

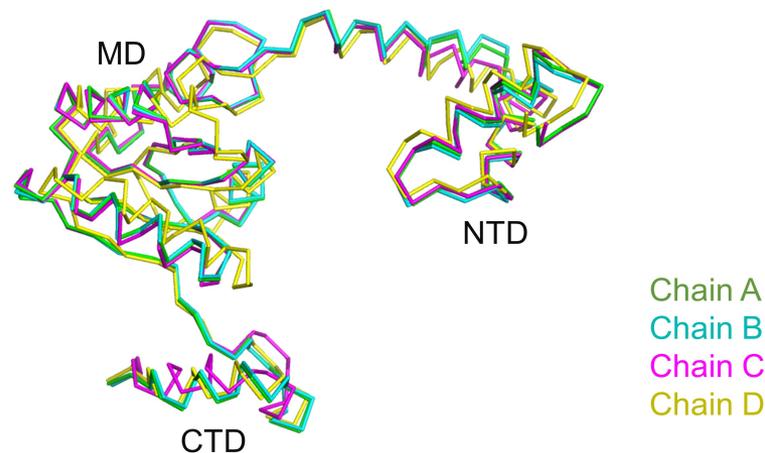
A

RMSD (Å) between cjRecR chains

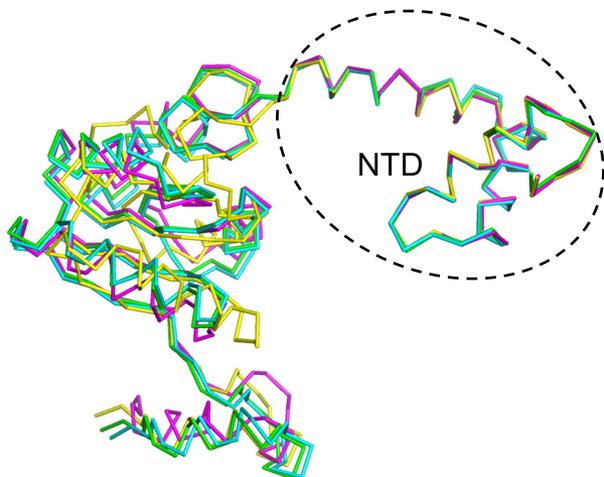
	A-B	A-C	A-D
Full-length	0.42	1.08	2.57
NTD	0.37	0.37	0.42
MD	0.19	0.29	0.39
CTD	0.18	0.60	0.48

B

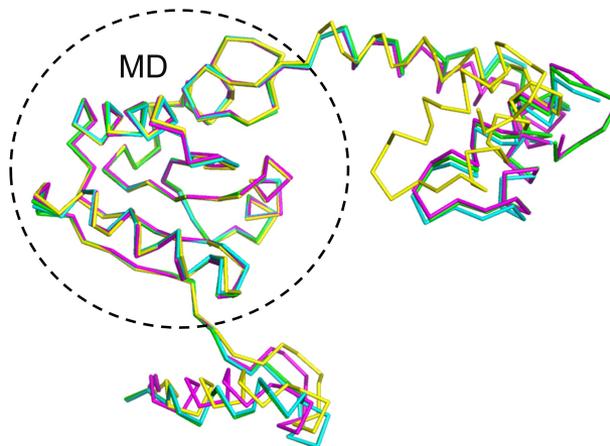
Full-length superposition

**C**

NTD superposition

**D**

MD superposition

**E**

CTD superposition

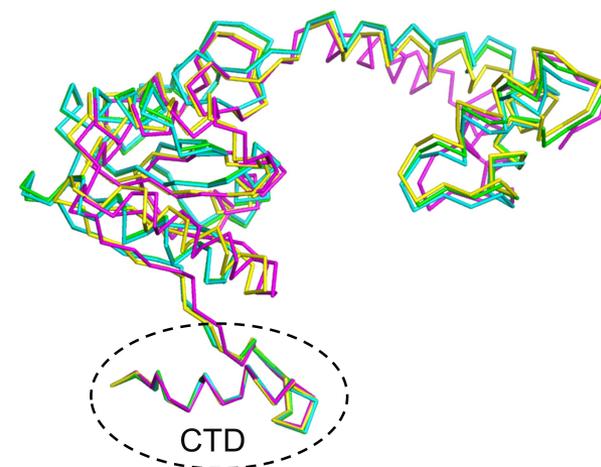


Figure S2. Overlays of the four cjRecR chains observed in the asymmetric unit of the cjRecR crystal. **(A)** RMSD values between the four cjRecR chains for the entire structure or each domain. **(B)** cjRecR chains superimposed using the entire structure. **(C)** cjRecR chains superimposed using the NTD. **(D)** cjRecR chains superimposed using the MD. **(E)** cjRecR chains superimposed using the CTD.

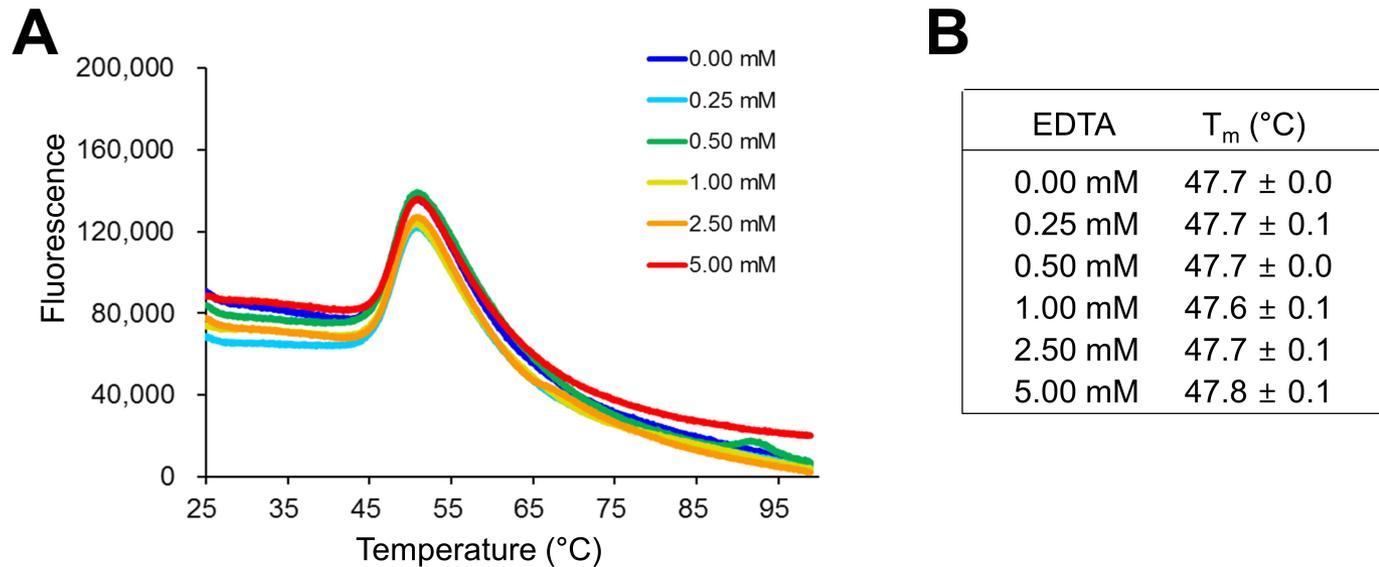


Figure S3. No significant change in the protein stability of the *X. campestris* FliD control protein in response to EDTA. The T_m of FliD (**B**) was determined in the presence and absence of EDTA via a thermal shift assay (**A**). The data (**A**) are representative of three independent experiments that yielded similar results, and the T_m values (**B**) represent the means \pm S.D. from the three independent experiments.

