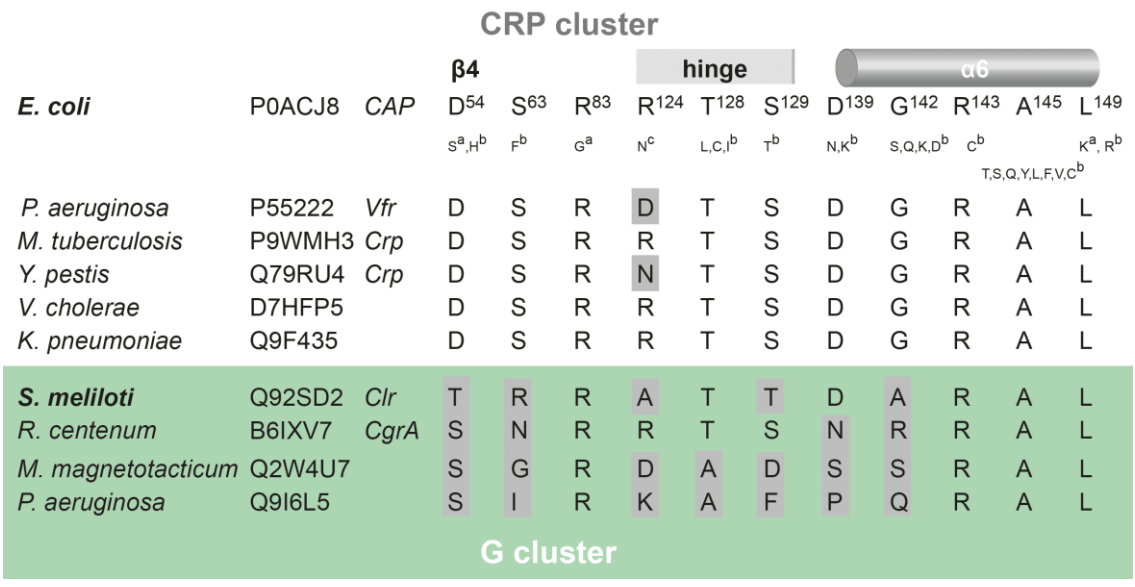

FIG S5 Differences for sequence motifs in the cNMP binding site and the hinge/α5 and α6 regions. Several mutations in these regions as indicated below the *E. coli* CAP sequence render CAP cGMP-sensitive (a: Yoon *et al.*, Bacteriol 190, 4532–4540 (2008); b: Passner *et al.*, J Mol Biol. 304, 847-59 (2000); c: Yoon *et al.*, J Biol Chem 282, 3632–3639 (2007)). Almost all of these residues are conserved in the main Crp cluster, whereas the proteins from cluster G like Clr show higher diversity.