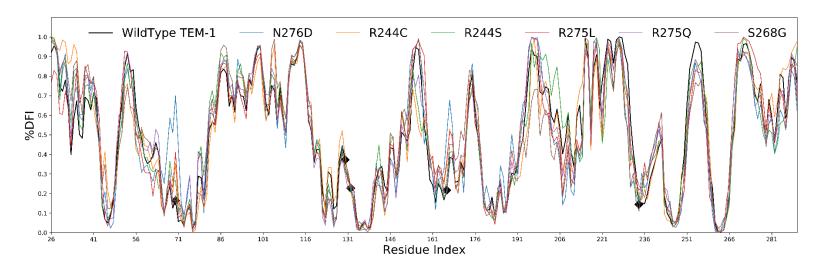


Supplementary Figure 1. Comparison of %DFI profiles of wildtype TEM-1 β -lactamase (Black) with the %DFI profiles of single point variants which provide resistance to β -lactam antibiotics. We observe that a majority of mutants, despite being distal to the active site region, alter the flexibility of the active site regions (in Black Diamonds) particularly at S70 and E166.



Supplementary Figure 2. Comparison of %DFI profiles of wildtype TEM-1 β -lactamase (Black) with the %DFI profiles of single point variants which impact antibiotic resistance through inhibitors. We observe that a majority of mutants, despite being distal to the active site region, alter the flexibility of the active site regions (in Black Diamonds) particularly at S70 and E166.