Fig S4 Spectroscopic control experiments (A) Circular dichroism spectra of wild-type LmrR (solid line) and the LmrR-W67Y/W96Y double mutant (dashed line). (B) Fluorescence titration experiment of H33342 to a 0.4 µM solution of N-acetyltryptophanamide (NATA). The flat lines show the fluorescence spectra of the NATA solution after adding increasing amounts of H33342 (final concentrations ranging from 100 to 700 nM). The upper green line shows the fluorescence spectrum after adding LmrR (to a final concentration of 0.2 µM as dimer) to the H33342/NATA solution at the end of the titration series. (C) Tryptophan fluorescence spectra recorded after titrating increasing amounts of daunomycin (final concentrations 200-800 nM) to a 0.4 µM NATA solution.