



**Additional Figure 4S.** The superimposition of the FFA1 crystal structure and a characteristic conformation of FFA1 from conformational search of the FFA1 crystal structure without the ligand. The figure shows changes in the conformation of F87<sup>3.33</sup>, F142<sup>4.61</sup> and W174<sup>EL2</sup>, which close the interhelical space between helices 3 and 4.