



**Supplementary information, Fig. S6 Interactions between phospholipids and nucleotides with MlaFEDB. a,** Cross-sectional view of the phospholipids bound in the central cavity. MlaD and MlaE are shown in light blue and wheat, respectively. **b,** Cross-sectional view of the phospholipids bound in the lower side cavity. **c,** Cross-sectional view of the phospholipids bound in the upper side cavity, showing the tight fit of the phospholipid acyl chains into the hydrophobic cavity.