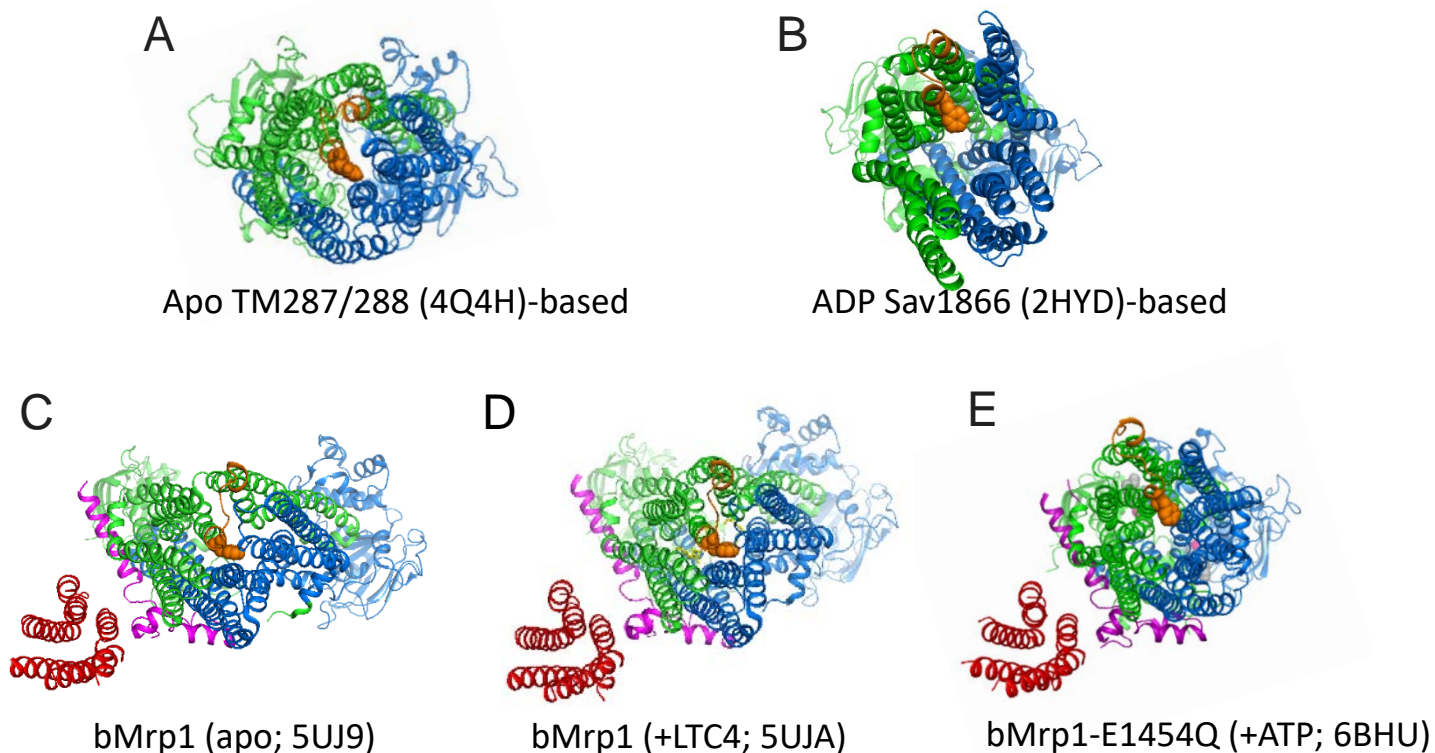


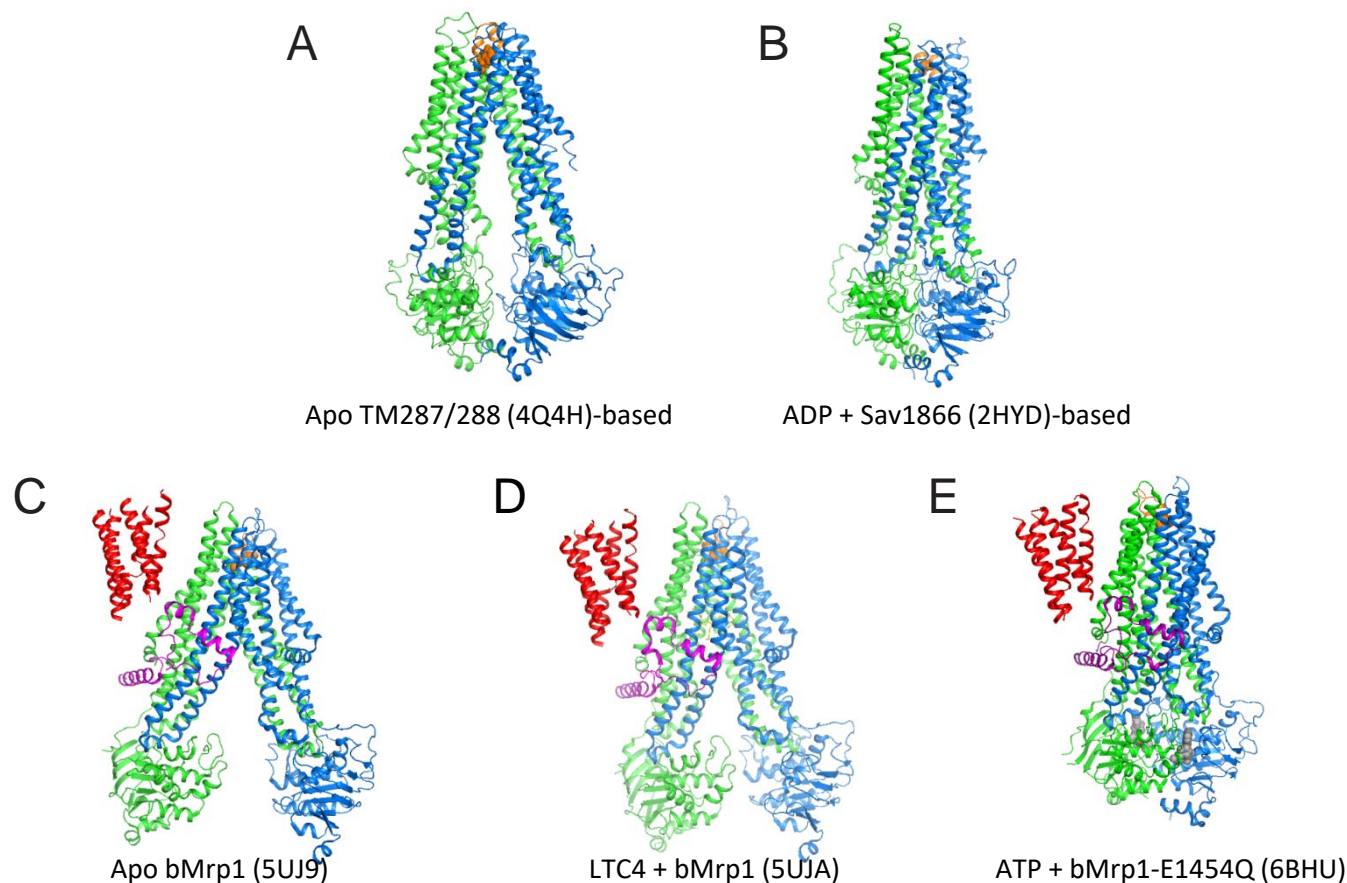
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Supplemental Fig. 1. Extracellular view of atomic homology models of human MRP1 and cryoEM-derived models of bovine Mrp1.

Shown are full views of the extracellular face along the membrane normal of atomic homology models of human MRP1 derived using the crystal structure of *A*, TM287/288 (PDB: 4Q4H) as template; and *B*, Sav1866 (PDB: 2HYD) as template; and cryoEM structures of wild-type bovine Mrp1 *C*, in the absence of ATP and LTC₄ (PDB: 5UJ9); and *D*, bound to LTC₄ (PDB: 5UJA); and *E*, mutant, ATP-hydrolysis deficient, bovine Mrp1-E1454Q bound to ATP (PDB: 6BHU). A space-filling MRP1-Phe⁵⁸³ and ECL5 are shown in *orange*. TMs 6-11 of MSD1 and NBD1 are shown in *green* and TM helices 12-17 of MSD2 and NBD2 are in *blue*. TMs 1-5 of MSD0 are in *red*, and the sequence connecting MSD0 to MSD1 (termed the 'lasso' motif) (Johnson & Chen, 2017) is shown in *magenta*.

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Supplemental Fig. 2. Side views of atomic homology models of human MRP1 and cryoEM-derived models of bovine Mrp1.

Shown are side views from within the plane of the membrane of atomic homology models of human MRP1 derived using the crystal structure of A, TM287/288 (PDB: 4Q4H) as template; and B, Sav1866 (PDB: 2HYD) as template; and cryoEM structures of wild-type bovine Mrp1 C, in the absence of ATP and LTC₄ (PDB: 5UJ9); and D, bound to LTC₄ (PDB: 5UJA); and E, mutant, ATP-hydrolysis deficient, bovine Mrp1-E1454Q bound to ATP (PDB: 6BHU). A space-filling MRP1-Phen⁵⁸³ and ECL5 are shown in orange. TMs 6-11 of MSD1 and NBD1 are shown in green and TM helices 12-17 of MSD2 and NBD2 are in blue. TMs 1-5 of MSD0 are in red, and the sequence connecting MSD0 to MSD1 (termed the 'lasso' motif) (Johnson & Chen, 2017) is shown in magenta.