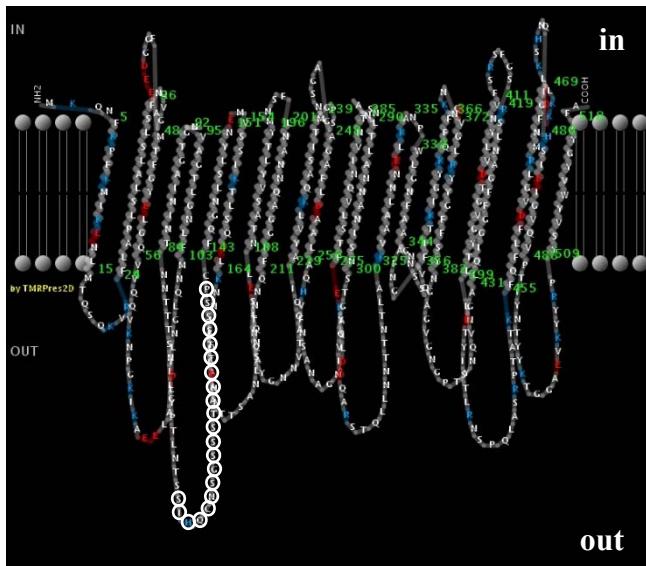


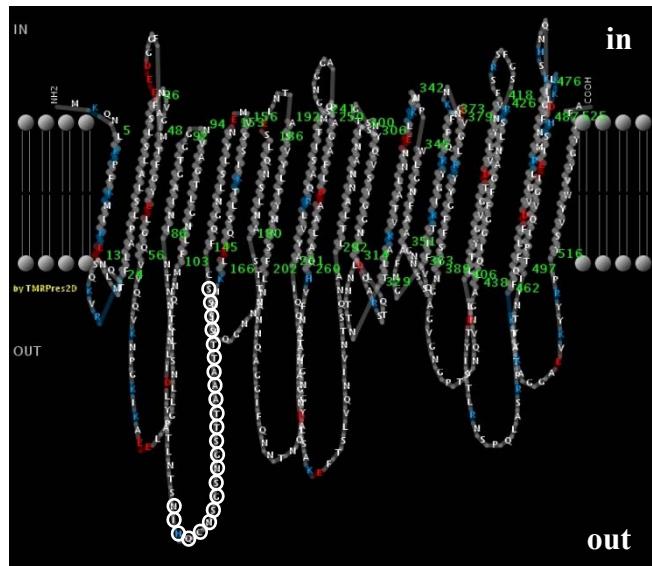
Alignment of AlpB amino acid sequences in *H. pylori* strains used in this study (1402:TK1402, 1029:TK1029, 2003:KR2003, 11638:NCTC11638). The variable region corresponding to amino acid positions 121 to 146 of AlpB is shown in underline. The replaced region for the construction of TK1402 Δ alpB/alpB₁₄₀₂V, TK1402 Δ alpB/alpB₁₁₆₃₈V, TK1402 Δ alpB/alpB₁₀₂₉V and TK1402 Δ alpB/alpB₂₀₀₃V is shown in a box.

Fig. S1

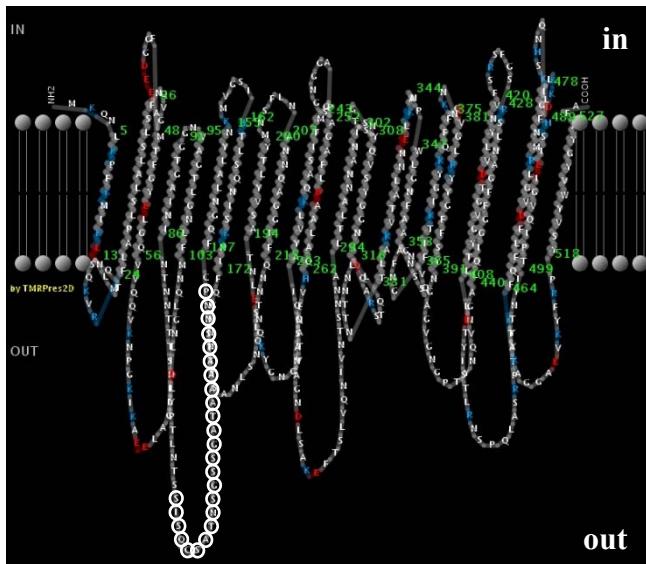
(A) TK1029



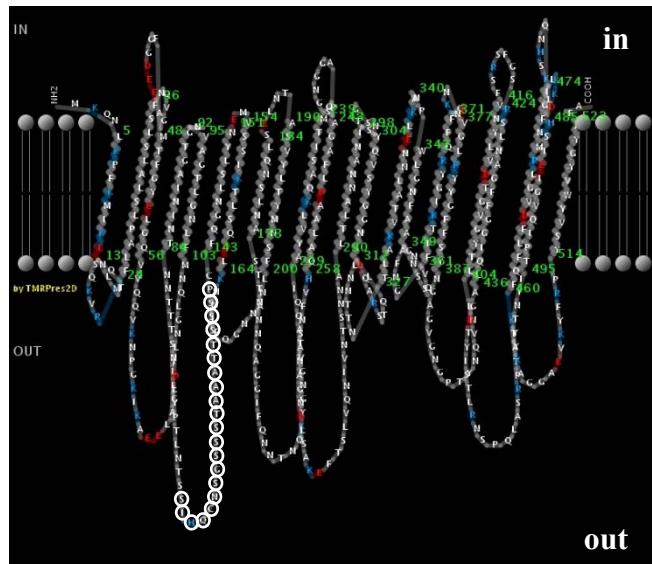
(B) KR2003



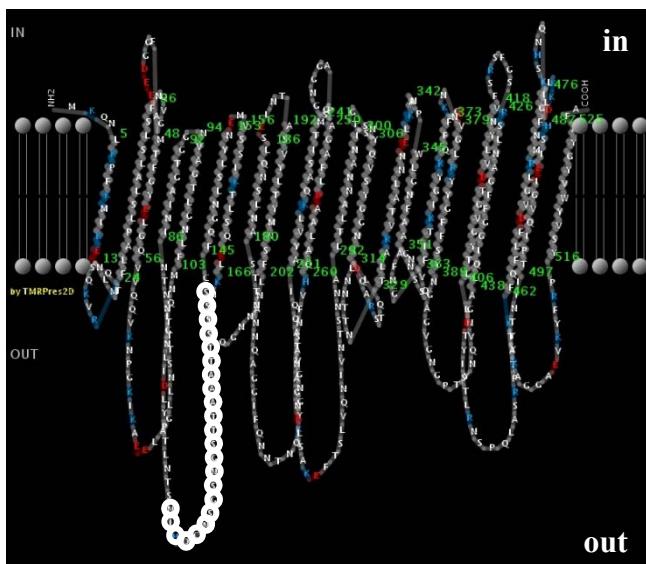
(C) TK1402 Δ alpB/alpB₁₁₆₃₈



(D) TK1402 Δ alpB/alpB₁₀₂₉



(E) TK1402 Δ alpB/alpB₂₀₀₃



Two-dimensional structure of AlpB from strains TK1029 (A), KR2003 (B), TK1402 Δ alpB/alpB₁₁₆₃₈ (C), TK1402 Δ alpB/alpB₁₀₂₉ (D), and TK1402 Δ alpB/alpB₂₀₀₃ (E), based on the prediction by PRED-TMBB. The amino acids of the variable region are shown by white circles. Strains TK1402 Δ alpB/alpB₁₁₆₃₈, TK1402 Δ alpB/alpB₁₀₂₉ and TK1402 Δ alpB/alpB₂₀₀₃ were restored strains derived from the TK1402 alpB mutant restored with NCTC11638, TK1029 or KR2003 alpB, respectively.

Fig. S2