Supplemental Material

A UPF0118 family protein with uncharacterized function from the moderate halophile *Halobacillus andaensis* represents a novel class of Na⁺(Li⁺)/H⁺ antiporter

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Fig. S1. Growth curves of *Escherichia coli* KNabc under the saline and alkaline conditions.

For the more detailed analysis of the resistance of UPF0118 to NaCl, LiCl and pH, 1% overnight cultures of KNabc cells carrying the empty vector pUC18 (open square) or pUC-UPF0118 (filled square) grown at 37 °C in the LBK medium at pH 7.0 were inoculated into fresh LBK medium at pH 7.0, to which 0.2 M NaCl (A) or 5 mM LiCl (B) was added, or fresh LBK medium containing 50 mM NaCl at pH 7.5 (C) adjusted by adding the Hepes-Tris buffer at the final concentration of 100 mM, followed by incubation at 37 °C. Also, to show cell growth in the absence of the salts at neutral pH, the KNabc transformant cells carrying the empty vector pUC18 (open square) or pUC-UPF0118 (filled square) grown at 37 °C in the LBK medium at pH 7.0 were inoculated into fresh LBK medium without the addition of the tested salts at pH 7.0 (D) adjusted by adding the Hepes-Tris buffer at the final concentration of 100 mM, followed by incubation at 37 °C. The above mentioned cell growth was monitored turbidimetrically at 600 nm at the indicated time points within 28 h. Each data point
represents the average of three independent determinations. The growth curves were plotted on a semilogarithmic scale.