



S5_Figure. Spo0E-like proteins are conserved and prevalent in Gram-positive and Gram-negative bacteria. **A)** Unrooted neighbor-joining tree based on the full amino acid sequence of Spo0E and Spo0E-like proteins. Tree generated using MEGA 11. **B)** The predicted Spo0E 3D structures generated with Phyre2 from representative Gram-positive and Gram-negative species. The residues comprising the signature Spo0E motif (SQELD/SxxxD) are colored red in each structure. Structures were edited in PyMOL (The PyMOL Molecular Graphics System, Version 2.4.0 Schrödinger, LLC). **C)** Multiple sequence alignment of Spo0E and Spo0E-like proteins overlaid against *B. subtilis* Spo0E secondary structure determined by AlphaFold and consisting of two α -helices. Spo0E motif residues are shaded red. Multiple sequence alignment performed using ClustalW.