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Supplementary Figure 1. Superposition of Nm PilE structures from strains 8013 and MC58. The strain MC58 PilE (4V1J, grey) is superimposed on the strain 8013 PilE structure described here (5JW8, light blue with magenta hypervariable region). The N-terminal residues corresponding to the beginning of the PilE sequences for these N-terminally truncated pilins are shown in stick representation. The disulfide bonded cysteine side chains are shown in ball-andstick representation (sulfur colored yellow). Ala131 is not resolved in the MC58 PilE structure.





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Supplementary Figure 3. Fourier shell correlation between cryoEM map and the Nm Type IV pilus model. (a) The resolution of the Nm T4P reconstruction is estimated to be ~6 Å. This estimate is reasonable when one compares the model volume filtered to 6 Å resolution with the actual reconstruction. The filtered model is shown on the left and the cryoEM map is on the right, shown (b) from the outside of the pilus and (c) in cross-section.