

**Figure S1**. The 24 SRP genomes used in this study and their genetic relationships illustrated by a phylogenetic tree.

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**Figure S2**. Core genome and pan-genome development plot projections for a) and b) *Archaeoglobus*, c) and d) *Desulfovibrio*, and e) and f) *Desulfotomaculum*. For Core genome development plot extrapolation: the red curve shows the fitted exponential decay function, and the blue and green curves indicate the upper and lower boundary of the 95% confidence interval.