**Linkage between Dynamics and Assembly of Ribosomal Proteins**

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**Supplementary Data**

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| ***Table S2: S17 contact residues; 3.5Å cutoff distance*** |
| ***E. coli* (21)** | Ile5 | Met17 | Ser20 | Phe37 | Lys43 | Arg65 | Ser68 |  |  |
|  | Ser14 | Glu18 | Ile33 | Arg40 | Leu44 | Pro66 | Lys69 |  |  |
|  | Lys16 | Lys19 | Tyr34 | Thr41 | His45 | Leu67 | Lys71 |  |  |
| ***T. thermophilus* (36)** | Pro2 | Gln16 | Tyr32 | Lys40 | Ser62 | Ser66 | Arg70 | Tyr95 | Gly102 |
|  | Lys3 | Lys17 | Lys34 | Lys41 | Arg63 | Lys67 | Arg72 | Leu98 | Gly103 |
|  | Ser12 | Thr18 | Arg38 | Tyr42 | Pro64 | Arg68 | Arg91 | Ser99 | Lys104 |
|  | Met15 | Arg25 | Ser39 | Glu61 | Ile65 | Lys69 | Asn94 | Lys100 | Ala105 |

Note: Residues colored red have conserved identity in the sequence alignment of the two proteins; those in green have conserved type, i.e. basic, acidic, polar, nonpolar, or aromatic. Some residues may contact more than one nucleotide.