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

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**Supplementary Data**

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| ***Table S3: S20 contact residues; 3.5Å cutoff distance*** |
| ***E. coli* (32)** | Asn3 | Gln13 | Ser23 | Met27 | Lys34 | Arg60 | Asn70 | Lys76 |  |
| Lys5 | Ser14 | Arg24 | Arg29 | Gln55 | Ala63 | Lys71 | Ala77 |  |
| Ser6 | Ala17 | Arg25 | Thr30 | Pro56 | Lys64 | Ala73 | Asn78 |  |
| Arg10 | Asn21 | Ser26 | Lys33 | Asp59 | Lys69 | Arg74 | Thr80 |  |
| ***T. thermophilus* (35)** | Leu10 | Arg17 | Arg23 | Ser31 | Glu60 | Lys68 | Arg79 | Met85 | Gly101 |
| Lys14 | Gln18 | Asn26 | Thr35 | Ser61 | Ser70 | Lys81 | Arg86 | Gly102 |
| Arg15 | Lys21 | Lys27 | Lys38 | Asp64 | Lys74 | Ser82 | Lys87 | Ser105 |
| His16 | Arg22 | Lys29 | Lys39 | Lys65 | Asn75 | Arg83 | Arg89 |  |

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.