

**Supplement to:** A. Y. Anikaev, A. B. Isaev, A. V. Korobeinikova, M. B. Garber, and G. M. Gongadze, Role of Protein L25 and Its Contact with Protein L16 in Maintaining the Active State of *Escherichia coli* Ribosomes *in vivo* (ISSN 0006-2979, *Biochemistry (Moscow)*, 2016, Vol. 81, No. 1, pp. 19-27)

**Table S1.** *E. coli* strains used in this work

Strain	Genotype	Reference/ source
W3110 (wild-type)	F <sup>-</sup> λ <sup>-</sup> <i>rpoS(Am) rph-1 Inv(rrnD-rrnE)</i>	[1]
MG1655 (wild-type)	F <sup>-</sup> λ <sup>-</sup> <i>ilvG<sup>-</sup> rfb-50 rph-1</i>	[2]
DY330	W3110 Δ <i>lacU169 gal490 pglΔ8 λcI857 Δ(cro-bioA)</i>	[3]
KNB800 (ΔL25)	W3110 Δ <i>rplY::cat</i>	[4]
ADrB01	DY330 <i>rplP-1::cat</i> (wild-type L16)	this work
ADrB02	DY330 <i>rplP-2::cat</i> (L16 K127A)	this work
ADrB03	DY330 <i>rplP-3::cat</i> (L16 K133L)	this work
ADrB04	DY330 <i>rplP-4::cat</i> (L16 K127L/K133L)	this work
AMrB01	MG1655 <i>rplP-1::cat</i> (wild-type L16)	this work
AMrB02	MG1655 <i>rplP-2::cat</i> (L16 K127A)	this work
AMrB03	MG1655 <i>rplP-3::cat</i> (L16 K133L)	this work
AMrB04	MG1655 <i>rplP-4::cat</i> (L16 K127L/K133L)	this work

**Table S2.** Oligonucleotides used in this work

Primer	Nucleotide sequence (5'-3')
AI 01-F	CCTTTGTAAGTAAAGACGGTGATGTAAGGAGCGTCGCTGATGGAGAAAAAATCACTGGATATAC
AI 02-R	CTCACGCAGCTCTTTTGCTTTCATTACATCACCGTCTTAGTTTACGCCCCGCCCTGCCACTC
AI 03-F	CAGCCTAAAAAGCAGCAGCGTAAAGGC
L16 K133L-F	CCACCTTTGTAAGTCTGACGGTGATGTAAGGAGCGTCGCTGATGGAGAAAAAATCACTGGATATAC
L16 K127A-F	CAGCGAAACTGCCGATTGCGACCACCTTTGTAAGTAAAGACG
L16 K127A-R	CGTCTTAGTTACAAAGGTGGTCGCAATCGGCAGTTTCGCTG
L16 K127L/K133L-F	CAGCGAAACTGCCGATTCTGACCACCTTTGTAAGTCTGACGGTGATGTAAGGAGC
L16 K127L/K133L-R	GCTCCTTACATCACCGTCAGAGTTACAAAGGTGGTCAGAATCGGCAGTTTCGCTG
rplP-check-F	GTGTGGATCTTCAAAGGCGAG
rplP-check-R	CAGGTGAGACTGTTGCAGCTGG

## REFERENCES

- Bachmann, B. J. (1972) Pedigrees of some mutant strains of *Escherichia coli* K-12, *Bacteriol. Rev.*, **36**, 525-557.
- Blattner, F. R., Plunkett, G., 3rd, Bloch, C. A., Perna, N. T., Burland, V., Riley, M., Collado-Vides, J., Glasner, J. D., Rode, C. K., Mayhew, G. F., Gregor, J., Davis, N. W., Kirkpatrick, H. A., Goeden, M. A., Rose, D. J., Mau, B., and Shao, Y. (1997) The complete genome sequence of *Escherichia coli* K-12, *Science*, **277**, 1453-1462.
- Yu, D., Ellis, H. M., Lee, E. C., Jenkins, N. A., Copeland, N. G., and Court, D. L. (2000) An efficient recombination system for chromosome engineering in *Escherichia coli*, *Proc. Natl. Acad. Sci. USA*, **97**, 5978-5983.
- Korepanov, A. P., Gongadze, G. M., Garber, M. B., Court, D. L., and Bubunenkov, M. G. (2007) Importance of the 5S rRNA-binding ribosomal proteins for cell viability and translation in *Escherichia coli*, *J. Mol. Biol.*, **366**, 1199-1208.