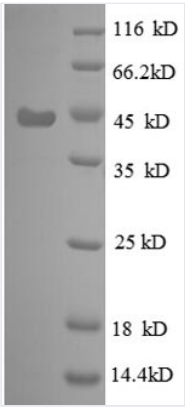
30s Ribosomal Protein S6 (rpsF) E Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	30S ribosomal protein S6 (rpsF), Recombinant Protein
Full Product Name	Recombinant E Coli 30S ribosomal protein S6
Product Gene Name	rpsF recombinant protein
Product Synonym Gene Name	b4200; JW4158
Sequence	MRHYEIVFMV HPDQSEQVPG MIERYTAAIT GAEGKIHRLE DWGRRQLAYP INKLHKAHYV LMNVEAPQEV IDELETTFRF NDAVIRSMVM RTKHAVTEAS PMVKAKDERR ERRDDFANET ADDAEAGDSE E
Host	E Coli
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	42.2 kDa
Sequence Positions	1-131aa; Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P02358
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rpsF recombinant protein	MBS1265205 is a recombinant protein targeting rpsF. Also known as Recombinant E Coli 30S ribosomal protein S6. Host: E Coli. Binds together with S18 to 16S ribosomal RNA.

Product References and Citations for rpsF recombinant protein	Determination of the complete amino-acid sequence of protein S6 from the wild-type and a mutant of Escherichia coli.Hitz H., Schaefer D., Wittmann-Liebold B.Eur. J. Biochem. 75:497-512(1977) The nucleotide sequence of an Escherichia coli chromosomal region containing the genes for ribosomal proteins S6, S18, L9 and an open reading frame.Schnier J., Kitakawa M., Isono K.Mol. Gen. Genet. 204:126-132(1986) Analysis of the Escherichia coli genome VI DNA sequence of the region from 92.8 through 100 minutes.Burland V.D., Plunkett G. III, Sofia H.J., Daniels D.L., Blattner F.R.Nucleic Acids Res. 23:2105-2119(1995) The complete genome sequence of Escherichia coli K-12.Blattner F.R., Plunkett G. III, 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., Shao Y.Science 277:1453-1462(1997) Highly accurate genome sequences of Escherichia coli K-12 strains MG1655 and W3110.Hayashi K., Morooka N., Yamamoto Y., Fujita K., Isono K., Choi S., Ohtsubo E., Baba T., Wanner B.L., Mori H., Horiuchi T.Mol. Syst. Biol. 2:E1-E5(2006) Small genes/gene-products in Escherichia coli K-12.Wasinger V.C., Humphery-Smith I.FEMS Microbiol. Lett. 169:375-382(1998) Pasquali C., Sanchez J.-C., Ravier F., Golaz O., Hughes G.J., Frutiger S., Paquet N., Wilkins M., Appel R.D., Bairoch A., Hochstrasser D.F.Submitted (SEP-1994) to UniProtKB Comparing the predicted and observed properties of proteins encoded in the genome of Escherichia coli K-12.Link A.J., Robison K., Church G.M.Electrophoresis 18:1259-1313(1997) Protein identification with N and C-terminal sequence tags in proteome projects.Wilkins M.R., Gasteiger E., Tonella L., Ou K., Tyler M., Sanchez J.-C., Gooley A.A., Walsh B.J., Bairoch A., Appel R.D., Williams K.L., Hochstrasser D.F.J. Mol. Biol. 278:599-608(1998) Escherichia coli proteome analysis using the gene-protein database.VanBogelen R.A., Abshire K.Z., Moldover B., Olson E.R., Neidhardt F.C.Electrophoresis 18:1243-1251(1997) Observation of Escherichia coli ribosomal proteins and their posttranslational modifications by mass spectrometry.Arnold R.J., Reilly J.P.Anal. Biochem. 269:105-112(1999) Lysine acetylation is a highly abundant and evolutionarily conserved modification in Escherichia coli.Zhang J., Sprung R., Pei J., Tan X., Kim S., Zhu H., Liu C.F., Grishin N.V., Zhao Y.Mol. Cell. Proteomics 8:215-225(2009) All-atom homology model of the Escherichia coli 30S ribosomal subunit.Tung C.-S., Joseph S., Sanbonmatsu K.Y.Nat. Struct. Biol. 9:750-755(2002) Study of the structural dynamics of the E. coli 70S ribosome using real-space refinement.Gao H., Sengupta J., Valle M., Korostelev A., Eswar N., Stagg S.M., Van Roey P., Agrawal R.K., Harvey S.C., Sali A., Chapman M.S., Frank J.Cell 113:789-801(2003) Structures of the bacterial ribosome at 3.5 A resolution.Schuwirth B.S., Borovinskaya M.A., Hau C.W., Zhang W., Vila-Sanjurjo A., Holton J.M., Cate J.H.D.Science 310:827-834(2005)
Other Notes	Small volumes of rpsF recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-PAGE of rpsF recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for rpsF. It may not necessarily be applicable to this product.

NCBI GI #	296044035
NCBI GeneID	948723
NCBI Accession #	NP_418621.5
UniProt Primary Accession #	P02358
UniProt Secondary Accession #	Q2M6A5
GenBank Nucleotide #	NC_000913.3

NCBI Official Full Name	30S ribosomal subunit protein S6
NCBI Official Symbol	rpsF
NCBI Official Synonym Symbols	ECK4196; JW4158; sdgH
UniProt Protein Name	30S ribosomal protein S6
Protein Family	30S ribosomal protein
UniProt Gene Name	rpsF
UniProt Entry Name	RS6_ECOLI
NCBI Protein Information	30S ribosomal subunit protein S6
NCBI Summary for rpsF	RpsF is modified posttranslationally by RimK, which adds four glutamic acid residues to the RpsF C-terminus. [More information is available at EcoGene: EG10905]. The S6 protein is a component of the 30S subunit of the ribosome. [More information is available at EcoCyc: EG10905].
UniProt Comments for rpsF	Binds together with S18 to 16S ribosomal RNA.
Research Articles on rpsF	**1.** Gene silencing of nonessential gene rpsF reduced cell growth.
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