

## Recombinant Escherichia coli RPLF Protein (50S) (2-175 aa), GST-tagged

**Cat. No.** RPLF-1237E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Escherichia coli (strain K12) RPLF Protein (50S) (2-175 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal.<br>Protein Description: Partial.                                                                                                                                        |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 2-175 aa                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | This protein binds directly to at least 2 domains of the 23S ribosomal RNA, thus is important in its secondary structure. It is located near the subunit interface in the base of the L7/L12 stalk, and near the tRNA binding site of the peptidyltransferase center. Gentamicin-resistant mutations in this protein affect translation fidelity. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 45.5 kDa                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | SRVAKAPVVVPAGVDVKINGQVITIKGKNGELTRTLNDAVEVKHADNTLTFGPRDGY<br>ADGWAQAGTARALLNSMVIGVTEGFTKKLQLVGVGYRAAVKGNVINLSLGFSPVD<br>HQLPAGITAECPTQTEIVLKGADKQVIGQVAADLRAYRRPEPYKKGKGVRYADEVVRT<br>KEAK                                                                                                                                                        |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                     |

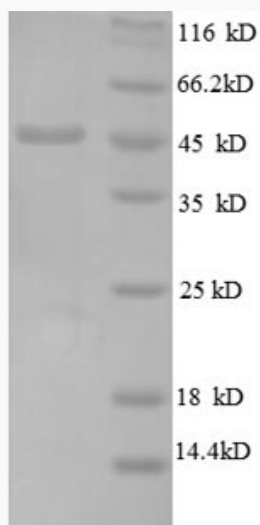
## GENE INFORMATION

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | rpIF 50S ribosomal subunit protein L6 [ Escherichia coli str. K-12 substr. MG1655 ] |
| <b>Official Symbol</b> | RPLF                                                                                |
| <b>Synonyms</b>        | ECK3292;                                                                            |
| <b>Gene ID</b>         | 947803                                                                              |
| <b>Protein Refseq</b>  | NP_417764                                                                           |
| <b>UniProt ID</b>      | P0AG55                                                                              |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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