

## Product datasheet for TP501161

### Rfk (NM\_019437) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Purified recombinant protein of Mouse riboflavin kinase (Rfk), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR201161 representing NM\_019437  
**Red**=Cloning site **Green**=Tags(s)

MRSLPFFCRGQVVRGFRGSKQLGIPTANFPEQVDNLPADVSTGIYYGWASVSGSDVHKMVSIGWNPY  
YKNVKKSMETHIIHTFKEDFYGEILNVAIVGYLRPEKNFDSLESLSIAIQGDIEEAKKQLDLPEHLKLD  
DNFFQVSKGKIMNGH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 17.9 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C after receiving vials.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_062310](#)

**Locus ID:** 54391

**UniProt ID:** [Q8CFV9](#)

**RefSeq Size:** 2482

**Cytogenetics:** 19 B



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RefSeq ORF: 465

Synonyms: 0610038L10Rik; AF031381; KOI-4

**Summary:** Catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin-mononucleotide (FMN), hence rate-limiting enzyme in the synthesis of FAD. Essential for TNF-induced reactive oxygen species (ROS) production. Through its interaction with both TNFRSF1A and CYBA, physically and functionally couples TNFRSF1A to NADPH oxidase. TNF-activation of Rfk may enhance the incorporation of FAD in NADPH oxidase, a critical step for the assembly and activation of NADPH oxidase (By similarity).[UniProtKB/Swiss-Prot Function]