

Product datasheet for MR201161

Rfk (NM_019437) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rfk (NM 019437) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Rfk

Synonyms: 0610038L10Rik; AF031381; KOI-4

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR201161 representing NM_019437

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201161 representing NM_019437

Red=Cloning site Green=Tags(s)

MRSLPFFCRGQVVRGFGRGSKQLGIPTANFPEQVVDNLPADVSTGIYYGWASVGSGDVHKMVVSIGWNPY YKNVKKSMETHIIHTFKEDFYGEILNVAIVGYLRPEKNFDSLESLISAIQGDIEEAKKQLDLPEHLKLKD

DNFFQVSKGKIMNGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

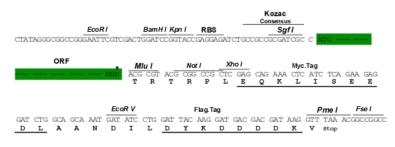
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_019437

ORF Size: 465 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

- 1. Centrifuge at 5,000xg for 5min.
- 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
- 3. Close the tube and incubate for 10 minutes at room temperature.
- 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
- 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.



RefSeq: <u>NM 019437.3</u>, <u>NP 062310.1</u>

RefSeq Size: 2482 bp
RefSeq ORF: 468 bp
Locus ID: 54391
UniProt ID: Q8CFV9
Cytogenetics: 19 B

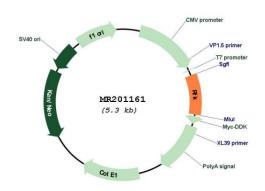
MW: 17.9 kDa

Gene 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]

Product images:



Circular map for MR201161