

Product datasheet for **RG202812**

RFK (NM_018339) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RFK (NM_018339) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: RFK
Synonyms: RIFK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202812 representing NM_018339
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGAGCGGACTGCATTATGAGGCACCTGCCTTACTTCTGCCGGGTCAAGTGGTGCGGGGCTTCG
GCCCGGCTCCAAGCAGCTGGGCATCCCCACAGCTAATTTTCTGAGCAAGTGGTAGATAATCTCCAGC
TGATATATCCACTGGTATTTACTATGGTTGGGCCAGTGTGGAAGTGGAGATGCCATAAGATGGTGGT
AGCATAGGATGGAACCCATATTACAAGAATACGAAGAAGTCTATGAAACACATATCATGCATACCTTCA
AAGAGGACTTCTATGGGAAATCCTCAATGTCGCCATTGTTGGCTACCTGAGACCAGAAAAGAATTGA
TTCTTTAGAGTCACTTATTTAGCAATTCAGGTGATATTGAAGAAGCTAAGAAACGACTAGAGTTACCA
GAACATTTGAAAATCAAAGAAGCAATTTCTTCCAGGTTTCTAAAAGCAAATAATGAATGGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202812 representing NM_018339
Red=Cloning site Green=Tags(s)

MPRADCIMRHLPYFCRGQVVRGFGGRGSKQLGIPTANFPEQVVDNLPADISTGIYYGWASVSGDVKHMMV
SIGWNPYYKNTKSMETHIMHTFKEDFYGEILNVAIVGYLRPEKNFDSLESLSISAIQGDIEEAKRLELP
EHLKIKEDNFFQVSKSKIMNGH

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_018339

ORF Size: 486 bp

OTI Disclaimer: 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. [More info](#)

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: [NM_018339.2](#)

RefSeq Size: 2712 bp

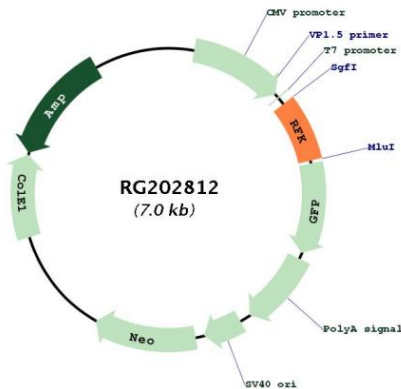
RefSeq ORF: 468 bp

Locus ID: 55312

UniProt ID: [Q969G6](#)

Cytogenetics: 9q21.13
Domains: FAD_Synth
Protein Families: Druggable Genome
Protein Pathways: Metabolic pathways, Riboflavin metabolism
Gene Summary: Riboflavin kinase (RFK; EC 2.7.1.26) is an essential enzyme that catalyzes the phosphorylation of riboflavin (vitamin B2) to form flavin mononucleotide (FMN), an obligatory step in vitamin B2 utilization and flavin cofactor synthesis (Karthikeyan et al., 2003 [PubMed 12623014]). [supplied by OMIM, Nov 2009]

Product images:



Circular map for RG202812