

Product datasheet for **SC113557**

RFK (NM_018339) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFK (NM_018339) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFK
Synonyms:	RIFK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113557 sequence for NM_018339 edited (data generated by NextGen Sequencing)

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ATGAGGCACCTGCCTTACTTCTGCCGGGTCAAGTGGTGGGGCTTCGGCCGGGCTCC
AAGCAGCTGGGCATCCCCACAGCTAATTTTCTGAGCAAGTGGTAGATAATCTTCCAGCT
GATATATCCACTGGTATTTACTATGGTTGGGCCAGTGTGGAAAGTGGAGATGTCCATAAG
ATGGTGGTGGAGCATAGGATGGAACCCATATTACAAGAATACGAAGAAGTCTATGGAAACA
CATATCATGCATACCTTCAAAGAGGACTTCTATGGGAAATCCTCAATGTGGCCATTGTT
GGCTACCTGAGACCAGAAAAGAACTTTGATTCTTTAGAGTCACTATTTTCAGCAATTCAA
GGTGATATTGAAGAAGCTAAGAAACGACTAGAGTTACCAGAACATTTGAAAATCAAAGAA
GACAATTTCTCCAGTTTCTAAAAGCAAATAATGAATGGCCACTGA
```

Clone variation with respect to NM_018339.5



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018339 unedited
 GTCAGGATTTGAATACGACTTCTATAGGCGGCCCGCGATTTCGGCACGAGGCGGCGTCAGG
 TTATTCGAGTGGCCTGTGGTCGGCGTCGTCCGGCCACTGGTGCGCCCCCGCGGCAGGCA
 GAGTCCAGCTCCTGTCCCCGGCTGGTCCGGGTCTGGGCGCCGCGTCGACGGCGGCC
 CGCAGGACGCGCAGACCGGGCCGAGCCCATGCCCGAGCGGACTGCATTATGAGGCACC
 TGCCTTACTTCTGCCGGGTCAAGTGGTCCGGGCTTCGGCCCGGCTCCAAGCAGCTGG
 GCATCCCACAGCTAATTTTCTGAGCAAGTGGTAGATAATCTTCCAGCTGATATATCCA
 CTGGTATTTACTATGGTTGGGCCAGTGTGGAAGTGGAGATGTCCATAAGATGGTGGTGA
 GCATAGGATGGAACCCATATTACAAGAATACGAAGAAGTCTATGAAAACATATCATGC
 ATACCTTCAAAGAGGACTTCTATGGGAAATCCTCAATGTGGCCATTGTTGGCTACCTGA
 GACCAGAAAAGAACTTTGATTCTTTAGAGTCACTTATTTCAAGCAATCAAGGTGATATTG
 AAGAAGCTAAGAAACGACTAGAGTTACCAGAACATTTGAAAATCAAAGAAGACAATTTCT
 TCCAGGTTTCTAAAAGCAAATAATGAATGGCCACTGATGAAAAATTGTATTATTTATTC
 ATTCAGTGTCTAGGGTTNCTGTGTTTATTACTGGTCAGCATCATCTTGGTTATATAC
 TGGAAATCAACACTTTACTACAGTTGTGAATTAGTTTAAACCGTACCATGGTNTATCAT
 ATCATGCTTCAACTATTAATAGCCCATCATATCATAGCACTAAAAGATGAGTAAAA
 ATAAGATTACAAATTTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_018339 unedited
 CCGCAATCTAGAGTCGAGTTTC
 AACTAAGCCAAAATTTAATTAAGGGCCTGAAAACCTTCAAACAACTAAAGGGTCCTA
 CGGTAACTTTTATAATACATAATAAAAAGTTTTTGAAAATATAAACCCATTTAACCC
 CTAACAACACATTTTTGATTTAAAAAGCAAGGGTTTTTAAACAAGATGTAAAGGGAC
 ATTACCTTTTCAAAAACCTTTCCCCCCCTAAAAATAGCTTTTACCAGCAGGTTATTCAA
 ACAAAAACAACACAAATTTTCCACATTCCTATGTTGGTTTTAACTTTACTTCATAAA
 GCCACTGATAATGGGGTTTTTTCAAGTTTAAAATTTCTAAAATTAAAAACCTGTTTTTG
 ACATATTTTTATAAAAAAATAAAAAGCAAAACGCATTCCAAATTTTTATATGAGCCCTT
 TTCTCCAACAGCTTTAAAGGTTTTCTGAGTCCTTTTACACAAAATTTTTTATAAAA
 TCAGTTCTAATCTTTTATGCAAATTAGGGGAAAAGGATTCATAATAAATTAACCTTAAA
 ATTACCTTTTATCTGTTTCTACCTTTATCCCCCATCACCACCAATCTGTTGCTACAGG
 GAACGTACCAATGTACTGTTTGGAGGGGCCCAAACCATCTGTAATCTTAATTTCCCAT
 ATTAGGTAGTAGGAGAAAATCCACAGTTGAAGGCTATTTAACTAAAACCTTTTGCCTTTT
 CCTAAGCTGTAGACTTTTTACATTAATAACATCGGCATTACACTACACCCTTTAAATC
 GCTTGAATATATTCAGGCCTAAATTAATAAATTTATACTTTCAAGNTATTGGCTTTAAAG
 TTTGCAGGAGAACATTGTGTCTAAAATGATGGGAAGGTCCTAATCTGAAAACCTAGAGAC
 CGGGT

Restriction Sites:

NotI-NotI

ACCN:

NM_018339

Insert Size:

3040 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_018339.3](#), [NP_060809.2](#)

RefSeq Size: 2712 bp

RefSeq ORF: 489 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]