

Product datasheet for **RG236970**

RBKS (NM_001287580) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RBKS (NM_001287580) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RBKS
Synonyms:	RBSK; RK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236970 representing NM_001287580. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACGTCATGGTGTGAAGGTTGGCAAAGATTCTTTGGCAATGATTATATAGAAAACCTAAAACAG
AATGATATTTCTACAGAATTTACATATCAGACTAAAGATGCTGCTACAGGAAGTCTTATAATTGTC
AATAATGAAGGCCAGAATATCATTGTGCATAGTGGCTGGAGCAAATTTACTTTTGAATACGGAGGATCTG
AGGGCAGCAGCCAATGTCATTAGCAGAGCCAAAGTCATGGTCTGCCAGCTCGAAATAACTCCAGCAACT
TCTTTGGAAGCCCTAACAAATGGCCCGCAGGAGTGGAGTAAAACCTTGTCAATCCAGCCCCTGCCATT
GCTGACCTGGATCCCCAGTTCTACACCCTCTCAGATGTGTCTGCTGCAATGAAAGTGAGGCTGAGATT
TTAACTGGCCTCACGGTGGCAGCGCTGCAGATGCTGGGGAGGCTGCATTAGTGCTTTGAAAAGGGGC
TGCCAGGTGGTAATCATTACCTTAGGGGCTGAAGGATGTGTGGTGTGTACAGACAGAACCTGAGCCA
AAGCACATTCCCACAGAGAAAGTCAAGGCTGTGGATACCACGGGTGCTGGTGACAGCTTTGTGGGAGCT
CTGGCCTTCTACCTGGCTTACTATCCAAATCTGTCTTGGGAAGACATGCTCAACAGATCCAAATTTTATT
GCAGCAGTCAGTGTCCAGGCTGCAGGAACACAGTCATCTTACCCTTACAAAAAGACCTCCGCTTACT
CTGTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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Protein Sequence: >Peptide sequence encoded by RG236970
 Blue=ORF Red=Cloning site Green=Tag(s)

MTSMVCKVGKDSFGNDYIENLKQNDISTEFTYQTKDAATGTASIVNNEGQNIIVIVAGANLLNTEDL
 RAAANVISRAKVMVCQLEITPATLSLEALTMARRSGVKTLFNPAPAIADLDPQFYTLSDVFCNESEAEI
 LTGLTVGSAADAGEAALVLLKRCQVVIITLGAEGCVVLSQTEPEPKHIPTEKVKAVDTTGAGDSFVGA
 LAFYLAYPNLSLEDMLNRSNFIAAVSVQAAGTQSSYPYKDLPLTLF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001287580

ORF Size: 765 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).

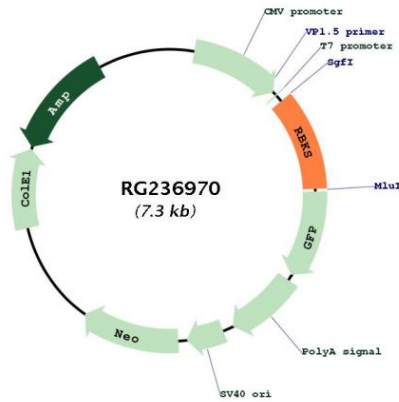
RefSeq: [NM_001287580.1](#), [NP_001274509.1](#)

RefSeq Size: 2395 bp

RefSeq ORF: 768 bp

Locus ID: 64080
UniProt ID: [Q9H477](#)
Cytogenetics: 2p23.2
Protein Families: Druggable Genome
Protein Pathways: Pentose phosphate pathway
MW: 27.6 kDa
Gene Summary: This gene encodes a member of the carbohydrate kinase PfkB family. The encoded protein phosphorylates ribose to form ribose-5-phosphate in the presence of ATP and magnesium as a first step in ribose metabolism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]

Product images:



Circular map for RG236970