

## Product datasheet for **RC236970**

### **RBKS (NM\_001287580) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RBKS (NM\_001287580) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** RBKS  
**Synonyms:** RBSK; RK  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236970 representing NM\_001287580  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACGTCCATGGTGTGAAGGTTGGCAAAGATCTTTTGGCAATGATTATATAGAAAACCTAAAACAGA  
ATGATATTTCTACAGAATTTACATATCAGACTAAAGATGCTGCTACAGGAAGCTTCTATAATTGTCAA  
TAATGAAGGCCAGAATATCATTGTCATAGTGGCTGGAGCAAATTTACTTTTGAATACGGAGGATCTGAGG  
GCAGCAGCCAATGTCATTAGCAGAGCCAAAGTCATGGTCTGCCAGCTCGAAATAACTCCAGCAACTTCTT  
TGAAGCCCTAACAATGGCCCGCAGGAGTGGAGTGAAAACCTTGTCAATCCAGCCCTGCCATTGCTGA  
CCTGGATCCCCAGTTCTACACCCTCTCAGATGTGTTCTGCTGCAATGAAAGTGAGGCTGAGATTTAACT  
GGCCTCACGGTGGGCAGCGCTGCAGATGCTGGGGAGGCTGCATTAGTGCTCTTGAAGGGGCTGCCAGG  
TGGTAATCATTACCTTAGGGCTGAAGGATGTGTGGTGTGTGACAGACAGAACCTGAGCCAAAGCAT  
TCCCACAGAGAAAGTCAAGGCTGTGGATACCACGGGTGCTGGTGACAGCTTTGTGGGAGCTCTGGCCTT  
TACCTGGCTTACTATCCAAATCTGTCCTTGAAGACATGCTCAACAGATCCAATTTATTGCAGCAGTCA  
GTGTCCAGGCTGCAGGAACAGTCATCTTACCCTTACAAAAAGACCTCCGCTTACTCTGTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC236970 representing NM\_001287580  
 Red=Cloning site Green=Tags(s)

MTSMVCKVGKDSFGNDYIENLKQNDISTEFTYQTKDAATGTASIIVNNEGQNIIVIVAGANLLLNTEDLR  
 AAANVISRAKVMVCQLEITPATSLEAL TMARRSGVKTLFNPAPAIADLDPQFYTLSDVFCNESEAEILT  
 GLTVGSAADAGEAALVLLKRGCVVVIITLGAEGCVVLSQTEPEPKHIPTEKVKAVDVTTGAGDSFVGALAF  
 YLAYYPNLSLEDMLNRSNFIAAVSVQAAGTQSSYPYKDLPLTLF

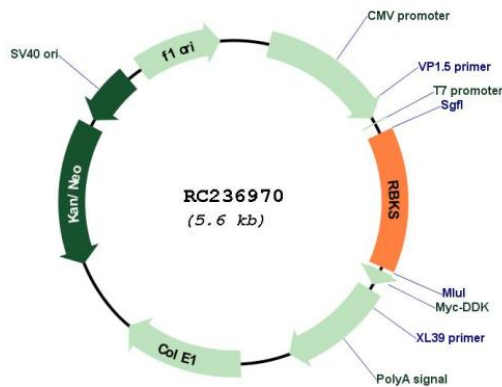
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001287580  
 ORF Size: 765 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001287580.1</a> , <a href="#">NP_001274509.1</a>
<b>RefSeq Size:</b>	2395 bp
<b>RefSeq ORF:</b>	768 bp
<b>Locus ID:</b>	64080
<b>UniProt ID:</b>	<a href="#">Q9H477</a>
<b>Cytogenetics:</b>	2p23.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Pentose phosphate pathway
<b>MW:</b>	27.6 kDa
<b>Gene Summary:</b>	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]