

Datasheet for ABIN4929050

## Human GRK7 ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

### Overview

Quantity:	10 µg
Gene:	GRK7
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)

### Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human GRK7 with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	1662 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	<p>ATGGTGGACA TGGGGGCCCT GGACAACCTG ATCGCCAACA CCGCCTACCT GCAGGCCCGG  AAGCCCTCGG ACTGCGACAG CAAAGAGCTG CAGCGGCGGC GGCGTAGCCT GGCCCTGCCC  GGGCTGCAGG GCTGCGCGGA GCTCCGCCAG AAGCTGTCCC TGAACCTCCA CAGCCTGTGT  GAGCAGCAGC CCATCGGTCTG CCGCCTCTTC CGTGACTTCC TAGCCACAGT GCCCAGTTC  CGCAAGGCGG CAACCTTCCT AGAGGACGTG CAGAAGTGGG AGCTGGCCGA GGAGGGACCC</p>

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## Product Details

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ACCAAAGACA GCGCGCTGCA GGGGCTGGTG GCCACTTGTG CGAGTGCCCC TGCCCCGGGG  
AACCCGCAAC CCTTCCTCAG CCAGGCCGTG GCCACCAAGT GCCAAGCAGC CACCACTGAG  
GAAGAGCGAG TGGCTGCAGT GACGCTGGCC AAGGCTGAGG CCATGGCTTT CTTGCAAGAG  
CAGCCCTTTA AGGATTCGT GACCAGCGCC TTCTACGACA AGTTTCTGCA GTGGAAACTC  
TTCGAGATGC AACCAGTGTC AGACAAGTAC TCACTGAGT TCAGAGTGCT GGGGAAAGGT  
GGTTTTGGGG AGGTATGTGC CGTCCAGGTG AAAAACTG GGAAGATGTA TGCCTGTAAG  
AAACTGGACA AGAAGCGGCT GAAGAAGAAA GGTGGCGAGA AGATGGCTCT CTTGAAAAA  
GAAATCTTGG AGAAGGTCAG CAGCCCTTTC ATTGTCTCTC TGGCCTATGC CTTTGAGAGC  
AAGACCCATC TCTGCCTTGT CATGAGCCTG ATGAATGGGG GAGACCTCAA GTTCCACATC  
TACAACGTGG GCACGCGTGG CCTGGACATG AGCCGGGTGA TCTTTTACTC GGCCAGATA  
GCCTGTGGGA TGCTGCACCT CCATGAACTC GGCATCGTCT ATCGGGACAT GAAGCCTGAG  
AATGTGCTTC TGGATGACCT CGGCAACTGC AGGTTATCTG ACCTGGGGCT GGCCGTGGAG  
ATGAAGGGTG GCAAGCCCAT CACCCAGAGG GCTGGAACCA ATGGTTACAT GGCTCCTGAG  
ATCCTAATGG AAAAGGTAAG TTATTCCTAT CCTGTGGACT GGTTTGCCAT GGGATGCAGC  
ATTTATGAAA TGGTTGCTGG ACGAACACCA TTCAAAGATT ACAAGGAAAA GTTCAGTAAA  
GAGGATCTGA AGCAAAGAAC TCTGCAAGAC GAGGTCAAAT TCCAGCATGA TAACTTACA  
GAGGAAGCAA AAGATATTTG CAGGCTCTTC TTGGCTAAGA AACCAGAGCA ACGCTTAGGA  
AGCAGAGAAA AGTCTGATGA TCCCAGGAAA CATCATTTCT TAAAACGAT CAACTTTCCT  
CGCCTGGAAG CTGGCCTAAT TGAACCCCA TTTGTGCCAG ACCCTTCAGT GGTTTATGCC  
AAAGACATCG CTGAAATTGA TGATTTCTCT GAGGTTCTGG GGGTGAATT TGATGACAAA  
GATAAGCAGT TCTTCAAAA CTTTGCGACA GGTGCTGTTT CTATAGCATG GCAGGAAGAA  
ATTATAGAAA CGGGACTGTT TGAGGAACTG AATGACCCCA ACAGACCTAC GGGTTGTGAG  
GAGGGTAATT CATCCAAGTC TGGCGTGTGT TTGTTATTGT AA

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Specificity:	ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology
Characteristics:	Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.
Sequencing Primer:	<ul style="list-style-type: none"><li>• Forward primer: 5'-TAATACGACTCACTATAGGG-3'</li><li>• Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'</li></ul>
Grade:	End-sequenced
Components:	The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

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## Target Details

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Gene: GRK7

Alternative Name: GRK7 ([GRK7 Products](#))

Background: This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. It is specifically expressed in the retina and the encoded protein has been shown to phosphorylate cone opsins and initiate their deactivation. [provided by RefSeq, Jul 2008].

Gene ID: 131890

NCBI Accession: [NM\\_139209](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

## Publications

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Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)