

Product datasheet for RC218924

GRK6 (NM_002082) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GRK6 (NM_002082) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GRK6
Synonyms: GPRK6
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218924 representing NM_002082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGCTGGAGCCGCCCTTCAAGCCTGACCCCAAGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGT
 TCTCTACGGTCAAGGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTGCCACAGGCAG
 TGTGCCCATCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGCTCCAGGAGCTGAATGTCTTTGGGCTG
 GATGGCTCAGTTCACCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCTCCTAAAAAGGGACTGCTGC
 AGAGACTTTCAGTCGCCAAGATTGCTGTGAAACTGCAGCGACAGCGAGGAAGAGCTCCCACCCGCT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218924 representing NM_002082
 Red=Cloning site Green=Tags(s)

MLEPPFKPDPQAIYCKDVLIDIEQFSTVKGVELEPTDQDFYQKFATGSVPIPWQNMVETECFQELNVFGL
 DGSVPPDLDWKGQPPAPPKGLLQRLF SRQDCCGNCSDSEEELPTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4133_a01.zip

Restriction Sites: Sgfl-Mlul



[View online »](#)

Cloning Scheme:

ACCN: NM_002082

ORF Size: 351 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

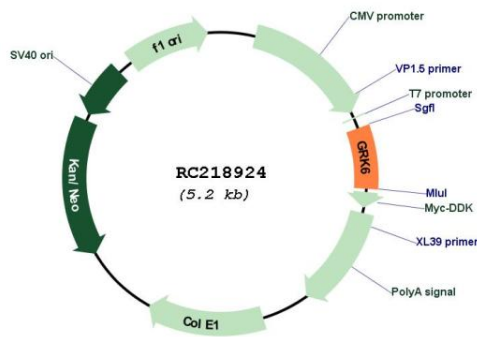
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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.

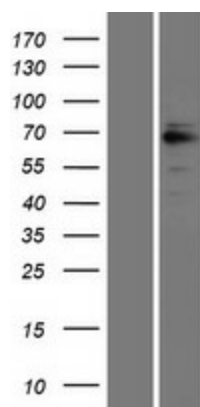
RefSeq Size: 2932 bp
 RefSeq ORF: 1770 bp
 Locus ID: 2870
 UniProt ID: [P43250](#)
 Cytogenetics: 5q35.3
 Domains: RGS, pkinase, S_TK_X, TyrKc, S_TKc
 Protein Families: Druggable Genome, Protein Kinase
 Protein Pathways: Chemokine signaling pathway, Endocytosis
 MW: 13.24 kDa

Gene Summary: This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor kinase subfamily of the Ser/Thr protein kinase family. The protein phosphorylates the activated forms of G protein-coupled receptors thus initiating their deactivation. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218924



Western blot validation of overexpression lysate (Cat# [LY419550]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218924 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).