

Product datasheet for **RG224049**

GRK6 (NM_001004105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK6 (NM_001004105) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRK6
Synonyms:	GPRK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224049 representing NM_001004105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCCGGAAGGTGGCGGTGGAAATCGCA
 AAGGCAAAAGCAAGAAATGGCGGCAGATGCTCCAGTTCCTCACATCAGCCAGTGCGAAGAGCTGCGGCT
 CAGCCTCGAGCGTACTATCACAGCCTGTGCGAGCGGCAGCCATTGGGCGCCTGCTGTTCCGAGAGTTC
 TGTGCCACGAGGCCGAGCTGAGCCGCTGCGTCGCCTTCTGGATGGGGTGGCCGAGTATGAAGTACCC
 CGGATGACAAGCGGAAGGCATGTGGCGGCAGCTAACGCAGAATTTCTGAGCCACACGGGTCTGACCT
 CATCCCTGAGGTCCCCGGCAGCTGGTACGAACGCACCCAGCGGTGGAGCAGGTCCCTGCAAAGAC
 CTTTTCCAGGAACACCCGGCTGACCCACGAGTACCTGAGCGTGGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTCTGCACTGGAAGTGGCTGAAAAGGCAGCCAGTGACAAAAACACCTTCAG
 GCAATACCGAGTCTGGCAAAGGTGGCTTTGGGGAGGTGTGCGCCTGCCAGGTGCGGGCCACAGGTAAG
 ATGTATGCCTGCAAGAAGCTAGAGAAAAAGCGGATCAAGAAGCGGAAAGGGGAGGCCATGGCGCTGAACG
 AGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTGGCCTACGCCTATGAGACCAAGGA
 CGCGCTGTGCCTGGTGTGACTGATGAACGGGGGCGACCTCAAGTCCACATCTACCACATGGGCCAG
 GCTGGCTTCCCGAAGCGCGGGCCGTCTTACGCCGCCGAGATCTGCTGTGGCCTGGAGGACCTGCACC
 GGGAGCGCATCGTGTACAGGGACCTGAAGCCCGAGAACATCTTGTGGATGACCACGGCCACATCCGCAT
 CTCTGACCTGGGACTAGCTGTGCATGTGCCGAGGGCCAGACCATCAAAGGGCGTGTGGGACCGTGGGT
 TACATGGCTCCGGAGGTGGTGAAGAATGAACGGTACACGTTACGCCCTGACTGGTGGGCGCTCGGTGCC
 TCCTGTACGAGATGATCGCAGGCCAGTCGCCCTCCAGCAGAGGAAGAAGAAGATCAAGCGGGAGGAGGT
 GGAGCGGCTGGTGAAGGAGGTCCCCGAGGAGTATTCGAGCGCTTTTCCCGCAGGCCCGCTCACTTTC
 TCACAGCTCCTCTGCAAGACCCTGCCGAACGCCTGGGGTGTCTGTGGGGCAGTGCCCGGAGGTGAAGG
 AGCACCCCTCTTTAAGAAGCTGAACCTCAAGCGGCTGGGAGCTGGCATGCTGGAGCCGCCCTTCAAGCC
 TGACCCCGAGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGTTCTCTACGGTCAAGGGCGTGGAG
 CTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTGCCACAGGCAGTGTGCCATCCCTGGCAGAACG
 AGATGGTGGAGACCGAGTCTTCAAGAGCTGAATGTCTTTGGGTGGATGGCTCAGTTCCTCCAGACCT
 GGACTGGAAGGGCCAGCCACCTGCACCTCTAAAAGGGACTGCTGCAGAGACTTTCAGTCGCCAAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224049 representing NM_001004105
 Red=Cloning site Green=Tags(s)

MELINIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRLSLERDYHSLCERQPIGRLLFREF
 CATRPELSRCVAFLDGVAEYEVTPDDKRKACGRQLTQNFLSHTGPDLIPEVPRQLVTNCTQRLEQGPCKD
 LFQELTRLTHEYLSVAPFADYLDLSIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCAQVRATGK
 MYACKKLEKKRIKKRGEAMALNEKQILEKVNRFVVSLEYAYETKDALCLVLTLMNGGDLKFHIYHMGQ
 AGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTG
 YMAPEVVKNERITYFSPDWWALGCLLYEMIAGQSPFQQRKKIKREEVERLVKEVPPEYSERFSPQARSLC
 SQLLCKDPAERLGRGGSAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLIDIEQFSTVKGVE
 LEPTDQDFYQKFATGSVIPWQEMVETECFQELNVFGLDGSVPPDLDWKGQPPAPPKGLLQRLF SRQR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004105

ORF Size: 1680 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).

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_001004105.1](#), [NP_001004105.1](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1683 bp

Locus ID: 2870

UniProt ID: [P43250](#)

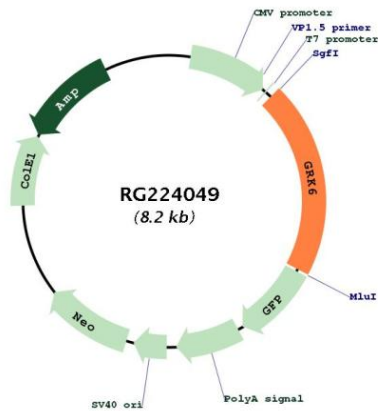
Cytogenetics: 5q35.3

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway, Endocytosis

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 RG224049