

Product datasheet for **RG224349**

GRK4 (NM_001004056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK4 (NM_001004056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRK4
Synonyms:	GPRK2L; GPRK4; GRK4a; IT11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224349 representing NM_001004056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTGGCCAACCTCGCTGCTGCTGAAAGCGCGTCAAGAAAAGGATTATAGCAGTC
 TTTGTGACAAGCAACCGATAGGAAGACGTCTCTCAGGCAGTTCTGTGATACAAACCCACTCTAAAGAG
 GCACATTGAATCTTGGATGCAGTGGCAGAATATGAAGTTGCCGATGATGAGACCGAAGTGATTGTGGA
 CTGTCAATCTTAGATAGATTCTCAATGATAAGTTGGCAGCCCTTTACCAGAAATACCTCCAGATGTTG
 TGACAGAAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCCAAAAAGCCTTTGAGGAATGTACTAGAGT
 TGCCATAACTACCTAAGAGGGGAACCATTTGAAGAATACCAAGAAAGCTCATATTTTTCTCAGTTTTTA
 CAATGAAATGGCTGGAAAGGCAACCCGTAACAAAGAACACATTTAGACATTACAGAGTTCTAGGAAAAG
 GCGGATTTGGAGAGGTTTGCCTGTCAAGTGCAGCCACAGGAAAAATGTATGCCTGCAAAAAGCTACA
 AAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCTATGGCTCTAAATGAGAAAAGAATTCTGGAGAAAGTG
 CAAAGTAGATTCTGTAGTTAGTTTACGCTTATGAAACCAAAGATGCCTTGTGCTTGGTGCTACCA
 TTATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGCAATCCCGGCTTTGATGAGCAGAGAGC
 CGTTTTCTATGCTGCAGAGCTGTGTTGCGGCTTGGAAAGATTTACAGAGGGAAAGAATTGTATACAGAGAC
 TTGAAGCTGAGAATATTCTCCTTGATGATCGTGGACACATCCGATTTTCAGACCTCGGTTTGGCCACAG
 AGATCCAGAAGGACAGAGGGTTCGAGGAAGAGTTGGAACAGTCGGCTACATGGCACCTGAAGTTGTCAA
 TAATGAAAAGTACGTTTAGTCCCGATTGGTGGGACTTGGCTGTCTGATCTATGAAATGATTCAGGGA
 CATTCTCCATTTAAAAATACAAAGAGAAAGTCAAATGGGAGGAGTTCGATCAAAGAATCAAGAATGATA
 CCGAGGAGTATTCTGAGAAGTTTTTCAGAGGATGCCAAATCTATCTGCAGGATGTTACTACCAAGAATCC
 AAGCAAGCGGCTGGCTGCAGGGGCGAGGGAGCGGCTGGGGTGAAGCAGCACCCCGTGTTC AAGGACATC
 AACTTCAGGAGGCTGGAGGCAAACATGCTGGAGCCCCCTTTCTGTCTGATCCTCATGCCGTTTACTGTA
 AGGACGCTCTGGATATCGAGCAGTTCTCGGTGGTAAAAGGGATCTACCTGGACACCGCAGATGAAGACTT
 CTATGCTCGGTTTGTACCGGTGTGTCTCCATCCCCTGGCAGAATGAGATGATCGAATCTGGGTGTTTC
 AAAGACATCAACAAAAGTAAAAGTGAAGGAGCTTTGCCATTAGATCTAGACAAGAACATACATACCCCGG
 TTTCCAGACCAACAGAGGCTTCTTCTATAGACTCTTCAGAAGAGGGGCTGCCTGACCATGGTCCCCAG
 TGAGAAGGAAGTGAACCAAGCAATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG224349 representing NM_001004056
 Red=Cloning site Green=Tags(s)

MELNIVANSLLLKARQEKDYSSLCDKQPIGRRLFRQFCDTKPTLKRHIEFLDAVAEYEVADDEDRSDCG
 LSILDRFFNDKLAAPLPEIPPDVVTECRLGLKEENPSKKAFFEECTRVAHNYLRGEPFEEYQESSYFSQFL
 QWKWLERQPVTKNTRHYRVLGKGGFGEVCACQVRATGKMYACKKLQKKRIKKRKGEMALNEKRILEKV
 QSRFVVSLAYAYETKDALCLVLTIMNGDLKFHIYNLGNPGFDEQRAVFYAAELCCGLEDLQRERIVYRD
 LKPENILLDDRGHIRISDLGLATEIPEGQRVRGRVGTVMYAPEVVNNEKYTFSPDWLGLCLYEMIQG
 HSPFKKYKEKVKWEEVDQRINKDTEEYSEKFSERAKSICRMLLTKNPSKRLGCRGEGAAGVKQHPVFKDI
 NFRRLANMLEPPFCPPHAYVCKDVLIEQFSVVKGIYLDTADEDFYARFATGCVSIPWQNMIESGCF
 KDINKSESEEALPLDLKNIHTPVSRRPGRFFYRLFRGGCLTMVPSEKEVEPKQC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004056

ORF Size: 1638 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).

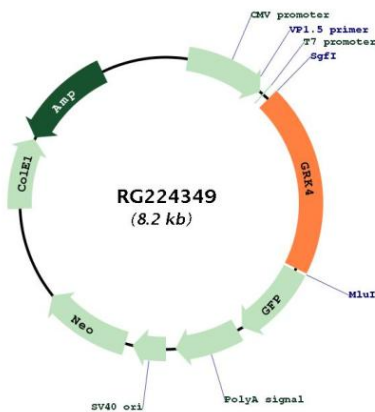
Reconstitution Method:

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: [NM_001004056.2](#)
RefSeq Size: 2225 bp
RefSeq ORF: 1641 bp
Locus ID: 2868
UniProt ID: [P32298](#)
Cytogenetics: 4p16.3
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 its deactivation. This gene has been linked to both genetic and acquired hypertension. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]

Product images:



Circular map for RG224349