

Product datasheet for **RC215579**

GRK4 (NM_001004057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK4 (NM_001004057) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRK4
Synonyms:	GPRK2L; GPRK4; GRK4a; IT11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215579 representing NM_001004057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTCGAGAACATCGTGGCCAACCTCGCTGCTGCTGAAAGCGCGTCAAGGAGGATATGGCAAAAAA
 GTGGTCGTAGTAAAAATGGAAGGAGATACTGACACTGCCTCCTGTGACCCAGTGCAGTGAAGCTTAGACA
 TTCCATTGAAAAGGATTATAGCAGTCTTTGTGACAAGCAACCGATAGGAAGACGCTCTTTCAGGCAGTTC
 TGTGATACCAAACCCACTCTAAAGAGGCACATTGAATTCTTGGATGCAGTGGCAGAATATGAAGTTGCCG
 ATGATGAGGACCGAAGTATTGTGGACTGTCAATCTTAGATAGATTCTTCAATGATAAGTTGGCAGCCCC
 TTTACCAGAAATACCTCCAGATGTTGTGACAGAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCCAAA
 AAAGCCTTTGAGGAATGTACTAGAGTTGCCATAACTACCTAAGAGGGGAACCTTTGAAGAATACCAAG
 AAAGCTCATATTTTCTCAGTTTTTACAATGGAATGGCTGGAAGGCAACCCGTAACAAAGAACACATT
 TAGACATTACAGAGTTCTAGGAAAAGGCGGATTTGGAGAGTTTTCGCGCTGTCAAGTGCAGCCACAGGA
 AAAATGTATGCCTGCAAAAAGCTACAAAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCTATGGCTCTAA
 ATGAGAAAAGAATTCTGGAGAAAGTGCAAAAGTAGATTCGTAGTTAGTTTACGCTACGCTTATGAAACCA
 AGATGCCTTGTGCTTGGTGTCCACATTATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGC
 AATCCCGCTTTGATGAGCAGAGAGCCGTTTTCTATGCTGCAGAGCTGTGTTGCGGCTTGGAAAGATTTAC
 AGAGGGAAAGAATTGTATACAGAGACTTGAAGCCTGAGAATATTTCTCTTGATGATCGTGGACACATCCG
 GATTTTCAGACCTCGGTTTGGCCACAGAGATCCCAGAAGGACAGAGGGTTCGAGGAAGAGTTGGAACAGTC
 GGCTACATGGCACCTGAAGTTGTCAATAATGAAAAGTATACGTTTAGTCCCGATTGGTGGGACTTGGCT
 GTCTGATCTATGAAATGATTCAGGGACATCTCCATTCAAAAAATACAAAGAGAAAGTCAATGGGAGGA
 GGTCGATCAAAGAATCAAGAATGATACCGAGGAGTATTCTGAGAAGTTTTTCAGAGGATGCCAAATCTATC
 TGCAGGATGTTACTACCAAGAATCCAAGCAAGCGGCTGGGCTGCAGGGCGAGGGAGCGCTGGGGTGA
 AGCAGCACCCCGTGTCAAGGACATCAACTTCAGGAGGCTGGAGGCAAACATGCTGGAGCCCCCTTCTG
 TCCTGATCCTCATGCCGTTTACTGTAAGGACGCTCCTGGATATCGAGCAGTTCTCGCGGTGAAAGGGATC
 TACCTGGACACCCGAGATGAAGACTTCTATGCTCGGTTTGTACCGGTTGTCTCCATCCCTGGCAGA
 ATGAGGGTGCCTGACCATGGTCCCCAGTGAGAAGGAAGTGAACCCAAGCAATGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215579 representing NM_001004057
 Red=Cloning site Green=Tags(s)

MELNIVANSLLLKARQGGYGKKSGRSKKWEILTLPPVSQCSELRHSIEKDYSSLCDKQPIGRRLFRQF
 CDTKPTLKRHIEFLDAVAEYEVADDEDSDCGLSILDRFNDKLAAPLPEIPPDVVTECRLGLKEENPSK
 KAFEECTRVAHNYLRGEPFEEYQESSYFSQFLQKWLERQPVTKNTRHYRVLGKGGFGEVCACQVRATG
 KMYACKKLQKKRIKKRKGEMALNEKRILEKVQSRFVVSLEYAYETKDALCLVLTIMNGDLKFHIYNLG
 NPGFDEQRAVFYAAELCCGLEDLQRERIVYRDLKPENILLDDRGHIRISDLGLATEIPEGQVRGRVGTV
 GYMAPEVVNNEKYTFSPDWWGLGLIYEMIQGHSPFKYKEKVKWEEVDQRKNDTEEYSEKFSERAKSI
 CRMLLTKNPSKRLGCRGEGAAGVKQHPVFKDINFRRLEANMLEPPFCPPHAYVCKDVLIDIEQFSAVKGI
 YLDTADEDFYARFATGCVSIPWQNEGCLTMVPSEKEVEPKQC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6707_e11.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004057

ORF Size: 1596 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_001004057.1](#), [NP_001004057.1](#)

RefSeq Size: 2183 bp

RefSeq ORF: 1599 bp

Locus ID: 2868

UniProt ID: [P32298](#)

Cytogenetics: 4p16.3

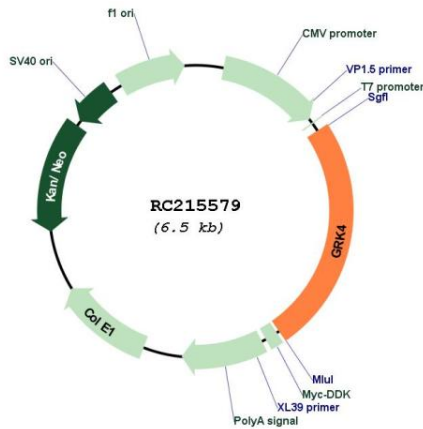
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Chemokine signaling pathway, Endocytosis

MW: 61 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 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 RC215579