

Product datasheet for **RG215579**

GRK4 (NM_001004057) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK4 (NM_001004057) 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:

>RG215579 representing NM_001004057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTGGCCAACCTCGCTGCTGCTGAAAGCGCGTCAAGGAGGATATGGCAAAAAA
 GTGGTCGTAGTAAAAATGGAAGGAGATACTGACACTGCCTCCTGTGACCCAGTGCAGTGTAGACTTAGACA
 TTCCATTGAAAAGGATTATAGCAGTCTTTGTGACAAGCAACCGATAGGAAGACGCTCTCTCAGGCAGTTC
 TGTGATACCAAACCCACTCTAAAGAGGCACATTGAATTCTTGGATGCAGTGGCAGAATATGAAGTTGCCG
 ATGATGAGGACCGAAGTATTGTGGACTGTCAATCTTAGATAGATTCTTCAATGATAAGTTGGCAGCCCC
 TTTACCAGAAATACCTCCAGATGTTGTGACAGAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCCAAA
 AAAGCCTTTGAGGAATGTACTAGAGTTGCCATAACTACCTAAGAGGGGAACCATTTGAAGAATACCAAG
 AAAGCTCATATTTTCTCAGTTTTTACAATGGAATGGCTGGAAGGCAACCCGTAACAAAGAACACATT
 TAGACATTACAGAGTTCTAGGAAAAGGCGGATTTGGAGAGTTTGCGCCGTCAAGTGCAGCCACAGGA
 AAAATGTATGCCTGCAAAAAGCTACAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCTATGGCTCTAA
 ATGAGAAAAGAATTCTGGAGAAAGTGCAAGTAGATTTCGTAGTTAGTTTACGCTACGCTTATGAAACCA
 AGATGCCTTGTGCTTGGTGTCCACATTATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGC
 AATCCCGCTTTGATGAGCAGAGAGCCGTTTTCTATGCTGCAGAGCTGTGTTGCGCTTGGGAAGATTTAC
 AGAGGGAAAGAATTGTATACAGAGACTTGAAGCCTGAGAATATTCCTTGTATGATCGTGGACACATCCG
 GATTTCCAGACCTCGTTTGGCCACAGAGATCCCAGAAGGACAGAGGGTTCGAGGAAGAGTTGGAACAGTC
 GGCTACATGGCACCTGAAGTTGTCAATAATGAAAAGTATACGTTTAGTCCCGATTGGTGGGACTTGGCT
 GTCTGATCTATGAAATGATTCAGGGACATTCTCCATTAAAAAATACAAAGAGAAAAGTCAATGGGAGGA
 GGTCGATCAAAGAATCAAGAATGATACCGAGGAGTATTCTGAGAAGTTTTTCAGAGGATGCCAAATCTATC
 TGCAGGATGTTACTACCAAGAATCCAAGCAAGCGGCTGGGCTGCAGGGGCGAGGGAGCGCTGGGGTGA
 AGCAGCACCCCGTGTCAAGGACATCAACTTCAGGAGGCTGGAGGCAAACATGCTGGAGCCCCCTTCTG
 TCCTGATCCTCATGCCGTTTACTGTAAGGACGCTCCTGGATATCGAGCAGTTCTCGGTGGTGAAGGGATC
 TACCTGGACACCCGAGATGAAGACTTCTATGCTCGGTTTGTACCAGGTTGTCTCCATCCCTGGCAGA
 ATGAGGGTGCCTGACCATGGTCCCGAGTGAAGAAGTGAACCAAGCAATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215579 representing NM_001004057
 Red=Cloning site Green=Tags(s)

MELENIVANSLLLKARQGGYGKSGRSKWKKEILTLPPVSQCSELRHSIEKDYSSLCDKQPIGRRLFRQF
 CDTKPTLKRHIEFLDAVAEYEVADDEDSDCGLSILDRFFNDKLAAPLPEIPPDVVTECRLGLKEENPSK
 KAFEECTRVAHNYLRGEPFEEYQESSYFSQFLQWKWLERQPVTKNTRHYRVLGKGGFGEVCACQVRATG
 KMYACKKLQKKRIKRGKGEAMALNEKRILEKVQSRFVVSLAYAYETKDALCLVLTIMNGDLKFHIYNLG
 NPGFDEQRAVFYAAELCCGLEDLQRERIVYRDLKPENILLDDRGHIRISDLGLATEIPEGQVRGRVGTV
 GYMAPEVVNNEKYTFSPDWWGLGLIYEMIQGHSPFKYKEKVKWEEVDQRIKNDTEEYSEKFSEDAISI
 CRMLLTKNPSKRLGCRGEGAAGVKQHPVFKDINFRRLEANMLEPPFCPPHAYVCKDVLIDIEQFSVVKGI
 YLDTADEDFYARFATGCVSIPWQNEGCLTMVPSEKEVEPKQC

TRTRPLE - GFP Tag - V

Restriction Sites:

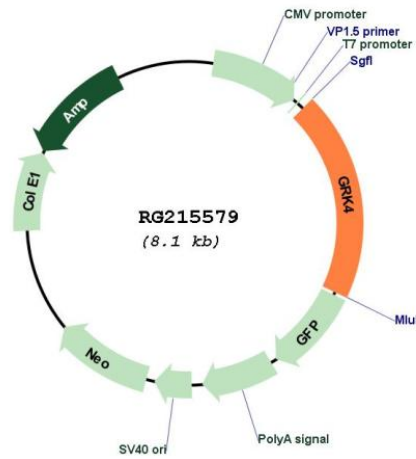
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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_001004057.2
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
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]