

## Product datasheet for **RG238584**

### GRK4 (NM\_005307) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRK4 (NM_005307) 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:**

>RG238584 representing NM\_005307.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCTCGAGAACATCGTGGCCAACCTCGTCTGCTGAAAGCGCGTCAAGAAAAGGATTATAGCAGT
CTTTGTGACAAGCAACCGATAGGAAGACGCTCTCTCAGGCAGTTCTGTGATACCAAACCCACTCTAAAG
AGGCACATTGAATTCCTGGATGCAGTGGCAGAATATGAAGTTGCCGATGATGAGGACCGAAGTGATTGT
GGACTGTCAATCTTAGATAGATTCTTCAATGATAAGTTGGCAGCCCTTTACCAGAAATACCTCCAGAT
GTTGTGACAGAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCCAAAAAGCCTTTGAGGAATGTACT
AGAGTTGCCATAACTACCTAAGAGGGGAACATTTGAAGAATACCAAGAAAAGCTCATATTTTTCTCAG
TTTTTACAATGGAATGGCTGGAAGGCAACCCGTAACAAAGAACACATTTAGACATTACAGAGTTCTA
GGAAAAGCGGATTTGGAGAGTTTGCCTGTCAAGTGCAGCCACAGGAAAAATGTATGCCTGCAAAA
AAGCTACAAAAAAAAGAATAAAGAAGAGGAAAGTGAAGCTATGGCTCTAAATGAGAAAAGAATTCTG
GAGAAAGTGCAAAGTAGATTTCGTAGTTAGTTTAGCCTACGCTTATGAAACCAAAGATGCCTGTGCTTG
GTGCTCACCATTATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGCAATCCCGGCTTTGAT
GAGCAGAGAGCCGTTTTCTATGCTGCAGAGCTGTGTTGCGGCTTGAAGATTTACAGAGGGAAAAGATT
GTATACAGAGACTTGAAGCCTGAGAATATTCTCCTTGATGATCGTGGACACATCCGGATTTAGACCTC
GGTTTGGCCACAGAGATCCAGAAGGACAGAGGGTTTCAGGAAGAGTTGGAACAGTCGGCTACATGGCA
CCTGAAGTTGTCAATAATGAAAAGTATACGTTTAGTCCCGATTGGTGGGGACTTGGCTGTCTGATCTAT
GAAATGATTACAGGACATTTCCATTCAAAAAACAAAGAGAAAAGTCAAATGGGAGGAGGTCGATCAA
AGAATCAAGAATGATACCGAGGAGTATTCTGAGAAGTTTTAGAGGATGCCAAATCTATCTGCAGGATG
TTACTACCAAGAATCCAAGCAAGCGGCTGGGCTGCAGGGGCGAGGGAGCGGCTGGGGTGAAGCAGCAC
CCCGTGTTC AAGGACATCAACTTCAGGAGGCTGGAGGCAACATGCTGGAGCCCTTTCTGTCTGAT
CCTCATGCCGTTTACTGTAAAGGACGTCCTGGATATCGAGCAGTTCTCGGTGGTGAAGGGATCTACCTG
GACACCGCAGATGAAGACTTCTATGCTCGGTTTGTACCGGGTGTGTCTCCATCCCTGGCAGAATGAG
GGCTGCCTGACCATGGTCCCGAGTGAAGGAAGTGAACCCAAGCAATGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238584  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MELNIVANSLLLKARQEKDYSSLCDKQPIGRRLFRQFCDTKPTLKRHIEFLDAVAEYEVADDEDRSDC
GLSILDRFFNDKLAAPLPEIPPDVVTECRLGLKEENPSKKAFFEETRVAHNYLRGEPFEEYQESSYFSQ
FLQWKWLERQPVTKNTRHYRVLGKGGFGEVCACQVRAATGKMYACKKLQKKRIKRRKGEAMALNEKRIL
EKVQSRFVVSLAYAYETKDALCLVLTIMNGGDLKFHIYNLGNPQFDEQRAVFYAAELCCGLEDLQRERI
VYRDLKPENILLDRGHIRISDLGLATEIPEGQVRGRVGTVGYMAPEVNNKEYTFSPDWWGLGCLIIY
EMIQGHSPFKKYKEKVKWEEVDQRIKNDTEEYSEKFSEDAHSICRMLLTKNPSKRLGCRGEGAAGVKQH
PVFKDINFRRLEANMLEPPFCPPHAVYCKDVLIDIEQFSVVKGIYLDTADEDFYARFATGCVSIPWQNE
GCLTMVPSEKEVEPKQC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-Mlul

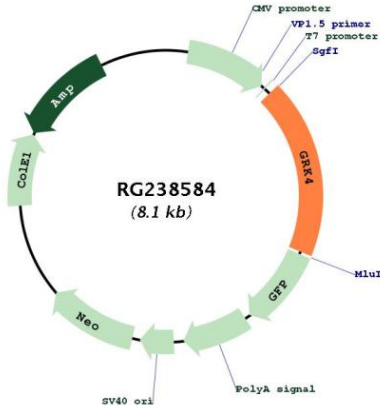
**Cloning Scheme:**


- ACCN:** NM\_005307
- ORF Size:** 1500 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).
- RefSeq:** [NM\\_005307.3](#)
- RefSeq Size:** 2087 bp
- RefSeq ORF:** 1503 bp
- Locus ID:** 2868
- UniProt ID:** [P32298](#)
- Cytogenetics:** 4p16.3
- Domains:** RGS, pkinase, TyrKc, S\_TKc
- Protein Families:** Druggable Genome, Protein Kinase
- Protein Pathways:** Chemokine signaling pathway, Endocytosis
- MW:** 58.1 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 RG238584