

## 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)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGCTCGAGAACATCGTGGCCAACCTCGTCTGCTGAAAGCGCGTCAAGAAAAGGATTATAGCAGT
CTTTGTGACAAGCAACCGATAGGAAGACGCTCTCTCAGGCAGTTCTGTGATACCAAACCCACTCTAAG
AGGCACATTGAATTCCTGGATGCAGTGGCAGAATATGAAGTTGCCGATGATGAGGACCGAAGTGATTGT
GGACTGTCAATCTTAGATAGATTCTTCAATGATAAGTTGGCAGCCCTTTACCAGAAATACCTCCAGAT
GTTGTGACAGAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCCAAAAAGCCTTTGAGGAATGTACT
AGAGTTGCCATAACTACCTAAGAGGGGAACATTTGAAGAATACCAAGAAAAGCTCATATTTTTCTCAG
TTTTTACAATGGAATGGCTGGAAGGCAACCCGTAACAAAGAACACATTTAGACATTACAGAGTTCTA
GGAAAAGCGGATTTGGAGAGTTTGCCTGTCAAGTGCAGCCACAGGAAAAATGTATGCCTGCAAAA
AAGCTACAAAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCTATGGCTCTAAATGAGAAAAGAATTCTG
GAGAAAGTGCAAAGTAGATTTCGTAGTTAGTTTAGCCTACGCTTATGAAACCAAAGATGCCTGTGCTTG
GTGCTCACCATTATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGCAATCCCGGCTTTGAT
GAGCAGAGAGCCGTTTTCTATGCTGCAGAGCTGTGTTGCGGCTTGAAGATTTACAGAGGGAAAAGATT
GTATACAGAGACTTGAAGCCTGAGAATATTCTCCTTGATGATCGTGGACACATCCGGATTTAGACCTC
GGTTTGGCCACAGAGATCCAGAAGGACAGAGGGTTCCAGGAAGAGTTGGAACAGTCGGCTACATGGCA
CCTGAAGTTGTCAATAATGAAAAGTATACGTTTAGTCCCGATTGGTGGGGACTTGGCTGTCTGATCTAT
GAAATGATTACAGGACATTTCCATTCAAAAAACAAAGAGAAAAGTCAAATGGGAGGAGGTCGATCAA
AGAATCAAGAATGATACCGAGGAGTATTCTGAGAAGTTTTAGAGGATGCCAAATCTATCTGCAGGATG
TTACTACCAAGAATCCAAGCAAGCGGCTGGGCTGCAGGGGCGAGGGAGCGGCTGGGGTGAAGCAGCAC
CCCGTGTTC AAGGACATCAACTTCAGGAGGCTGGAGGCAACATGCTGGAGCCCTTTCTGTCTGAT
CCTCATGCCGTTTACTGTAAAGGACGTCCTGGATATCGAGCAGTTCTCGGTGGTGAAGGGATCTACCTG
GACACCGCAGATGAAGACTTCTATGCTCGGTTTGTACCGGGTGTGTCTCCATCCCTGGCAGAATGAG
GGCTGCCTGACCATGGTCCCGAGTGAAGAAGGAGTGAACCCAAGCAATGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:**

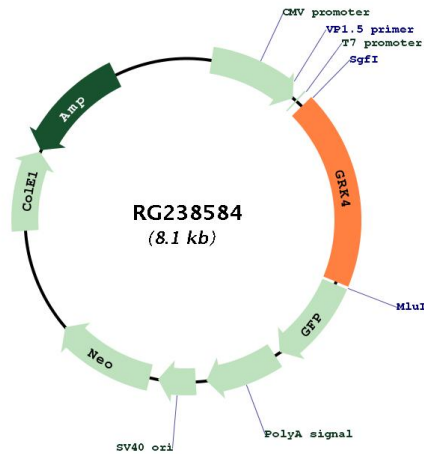
>Peptide sequence encoded by RG238584  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MELNIVANSLLLKARQEKDYSSLCDKQPIGRRLFRQFCDTKPTLKRHIEFLDAVAEYEVADDEDRSDC
GLSILDRFFNDKLAAPLPEIPPDVVTECRLGLKEENPSKKAFFEETRVAHNYLRGEPFEEYQESSYFSQ
FLQWKWLERQPVTKNTRHYRVLGKGGFGEVCACQVRAATGKMYACKKLQKKRIKRRKGEAMALNEKRIL
EKVQSRFVVSLAYAYETKDALCLVLTIMNGGDLKFHIYNLGNPGEQRAVYAAELCCGLEDLQRERI
VYRDLKPENILLDDRGHIRISDLGLATEIPEGQVRGRVGTVGYMAPEVNNKEYTFSPDWWGLGCLIIY
EMIQGHSPFKYKEKVKWEEVDQRIKNDTEEYSEKFSEDAKSICRMLLTKNPSKRLGCRGEGAAGVKQH
PVFKDINFRRLEANMLEPPFCPPHAVYCKDVLIDIEQFSVVKGIYLDTADEFYARFATGCVSIPWQNE
GCLTMVPSEKEVEPKQC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-Mlul



**Plasmid Map:**


<b>ACCN:</b>	NM_005307
<b>ORF Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_005307.3</a>

RefSeq Size:	2087 bp
RefSeq ORF:	1503 bp
Locus ID:	2868
UniProt ID:	<a href="#">P32298</a>
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]