

## Product datasheet for **SC300602**

### GRK6 (NM\_001004106) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRK6 (NM_001004106) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRK6
Synonyms:	GPRK6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC300602 representing NM\_001004106.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCCGGAAGGTGGCGGTGAAATCGC
AAAGCAAAAGCAAGAAATGGCGGCAGATGCTCCAGTCCCTCACATCAGCCAGTGCGAAGAGCTGCGG
CTCAGCCTCGAGCGTGACTATCACAGCCTGTGCGAGCGGCAGCCATTGGGCGCCTGCTGTTCCGAGAG
TTCTGTGCCACGAGGCCGAGCTGAGCCCTGCGTCGCCTTCTGGATGGGGTGGCCGAGTATGAAGTG
ACCCCGGATGACAAGCGGAAGGCATGTGGGCGGCAGCTAACGCAGAATTTTCTGAGCCACACGGGTCTT
GACCTCATCCCTGAGGTCCCCGGCAGCTGGTGACGAAGTGCACCCAGCGGCTGGAGCAGGGTCCCTGC
AAAGACCTTTTCCAGGAAGTCAACCGGCTGACCCAGGAGTACCTGAGCGTGGCCCTTTTCCGACTAC
CTCGACAGCATCTACTTCAACCGTTTCTGCAAGTGAAGTGGCTGGAAAGGCAGCCAGTGACCAAAAAC
ACCTTCAGGCAATACCGAGTCTGGGCAAAGTGGCTTTGGGGAGGTGTGCGCCTGCCAGGTGCGGGCC
ACAGGTAAGATGTATGCCTGCAAGAAGTGAAGAAAAAGCGGATCAAGAAGCGGAAAGGGGAGGCCATG
GGCTGAACGAGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTGGCCTACGCCTAT
GAGACCAAGGACGCGCTGTGCCTGGTGCTGACACTGATGAACGGGGGCGACCTCAAGTCCACATCTAC
CACATGGGCCAGGCTGGCTTCCCGAAGCGCGGGCCGTCTTCTACGCCCGGAGATCTGCTGTGGCCTG
GAGGACCTGCACCGGGAGCGCATCGTGTACAGGGACCTGAAGCCCAGAACATCTTGTGGATGACCAC
GGCCACATCCGCATCTCTGACCTGGGACTAGCTGTGCATGTGCCCGAGGGCCAGACCATCAAAGGGCGT
GTGGGCACCGTGGGTTACATGGCTCCGGAGGTGGTGAAGAATGAACGGTACACGTTACAGCCCTGACTGG
TGGGCGCTCGGCTGCCTCCTGTACGAGATGATCGCAGGCCAGTCGCCCTTCCAGCAGAGGAAGAAGAAG
ATCAAGCGGGAGGAGGTGGAGCGGCTGGTGAAGGAGGTCCCCGAGGAGTATTCCGAGCGCTTTTCCCGC
CAGGCCCGCTCACTTTGCTCACAGCTCCTCTGCAAGGACCTGCCGAACGCCTGGGGTGTGTTGGGGGC
AGTGCCCGCGAGGTGAAGGAGCACCCCTCTTTAAGAAGCTGAACCTCAAGCGGCTGGGAGCTGGCATG
CTGGAGCCCGCTTCAAGCCTGACCCCCAGGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGTTC
TCTACGGTCAAGGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAAGTTGCCACAGGCAGT
GTGCCATCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGTTCAGAGCTGAATGTCTTTGGGCTG
GATGGCTCAGTCCCCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCTCTAAAAGGGACTGCTG
CAGAGACTTTCAGTCGCAAGATTGCTGTGAAAAGTGCAGCGACAGCGAGGAAGAGCTCCCCACCCGC
CTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001004106  
**Insert Size:** 1731 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001004106.2](#)

**RefSeq Size:** 2950 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 2870

**UniProt ID:** [P43250](#)

**Cytogenetics:** 5q35.3

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Chemokine signaling pathway, Endocytosis

**MW:** 66 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 their deactivation. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) uses an alternate acceptor splice site in the last exon, compared to variant 2, resulting in a shorter isoform (A) compared to isoform B.