

Product datasheet for **SC108487**

GRK6 (NM_002082) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK6 (NM_002082) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRK6
Synonyms:	GPRK6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_002082 edited TCCGAGCGCTTTTCCCCGAGGCCGCTCACTTTGCTCACAGCTCCTCTGCAAGGACCT GCCGAACGCCTGGGGTGTCTGGGGCAGTGCCCGGAGGTGAAGGAGCACCCCTCTTT AAGAAGCTGAACTTCAAGCGGCTGGGAGCTGGCATGCTGGAGCCGCCCTCAAGCCTGAC CCCCAGGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGTTCTCTACGGTCAAGGGC GTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTGCCACAGGCAGTGTGCC ATCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGCTTCCAGGAGCTGAATGTCTTTGGG CTGGATGGCTCAGTTCCCCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCTCCTAAA AAGGGACTGCTGCAGAGACTCTCAGTCGCCAAGATTGCTGTGGAAGTGCAGCGACAGC GAGGAAGAGCTCCCCACCCGCTCTAG



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5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_002082 unedited
ACCTCAGGATTTGTAACCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGGGAGGCC
GGGGAGGCCGCGCGCGGTCACTGCGAGCCGAGCCGAGCCGCGCCGAGCCGCGCCGATCG
CCATCCGGCCTCGGCACTCGCGCGCATCCCGCCGGCGCGGCCCGGGCCAGGC
GGCGCCACAGCCCATGGAGCTCGAGAACATCGTATCGAACACGGTGTACTCAAGGCCCG
GGAAGGTGGCGGTGAAATCGCAAAGGCAAAAGCAAGAAATGGCGGCAGATGCTCCAGTT
CCCTCACATCAGCCAGTGCAGAGCTGCGGCTCAGCCTCGAGCGTGACTATCACAGCCT
GTGCGAGCGGCAGCCATTGGGGCCTGCTGTTCCGAGAGTTCTGTGCCACGAGGCCGGA
GCTGAGCCGCTGCGTCGCCTTCTGGATGGGGTGCCGAGTATGAAGTGACCCCGGATGA
CAAGCGGAAGGCATGTGGGCGGCAGCTAACGCAGAATTTTCTGAGCCACACGGGTCTGA
CCTCATCCCTGAGGTCCCCGGCAGCTGGTGACGAACTGCACCCAGCGGTGGAGCAGGG
TCCCTGCAAAGACCTTTCCAGGAACACCCGGCTGACCCACGAGTACCTGAGCGTGGC
CCCTTTTGCCGACTACCTCGACAGCATCTACTTCAACCGTTTCTGCAGTGGAAGTGGCT
GGGAAAGCAGCCAGTGACCAAAAACACCTTCAGGCAATACCGAGTCTGGCAAAGTGGC
TTTGGGAAGTGTGCGCCTGCCAGGTGCGGGCCACAGGTAAGATGTATGCCTGCCAAGAA
CCTAGAGAAAAGCCGATCAAGAAGCGCAAAGGGGAAGCCCATGCCGCTGTACGCAGAACC
CAT
```

3' Read Nucleotide Sequence:

```
>OriGene 3' read for NM_002082 unedited
CCTGTGGTCTTTGTTATGAGGGAGTCCGCATGTTTGAGGTTGACCGGGATGCCCCACCC
CCTCCTAGGGCTGGGCTTGGGCGTTTCTGAAAGAGTGTCTGCAGGACAGAGCCCAGTATC
AGGGACCAGGCTGTGGGAGCTGGAAGGCAGAGGCAGACCTATCTGGGCCGCGGGGCGAG
TGGGCTGATGGGTATCACAGGCAGCCCAATCTCTGGCCACTTTGGCACAGGCGTAGGGCA
TACAGAGGCCCCAGACCCAGCGCTGACAAGCACTGAGAAGGGACAGCTTTGGGCCCCAGA
GGGTAGCAGCCTGAGCCAGGGCAGCAGGGGGAGGCACGAGTCTTACTCAGAGGCCGGGG
TGGCCAGCACAGTGTGAAGGCTCAGGGGTGTGACCACCTCAGCCATCCAAGCTGGGCC
AGAGGAGCCTTGAGTTTGGCAGTGGCTCCTCTGTGAGTCCCCTCTCCAGCCAGGGCT
GGCTGCCCCCAGAGCCCAAGCGGGGGCCAGGTCTGCCGCGGGAATCAACAATGCTCT
GATCGCTATATACATTTCGACCACTACATAACTACAGAAAGGCCCGAGCTCCCCGCGATA
ACAACTGACCGGGACGCCCTTCGGTCCATGTGTGGTTCCACGCCCCCGCCAGAATCAC
CCAGCCTATGCGGCTGATGGACGGTTTGACCCCGCTACCGTTTTCTCGTGCTGTCCAC
GCCCCCTCCCGCGGATACCGGCCCATCCCCGCAATCTGTACCGCGCCAGTGGCG
TTGCTCGTTACTACTCCCGGGGTAATCTACGTGCTTCCGCGCCCCGGGTTTTCC
CCCCCTTCTTCCCGCCTCTTCTCGTGTCCCCCTTCTCGCGTCCCTCCTTTGATGC
CGTGCCCCGCTCTCCACCAGGACGGGCCCGTCTCCGCGCTGTGTCATGATTGGCCCC
CCCCGCTTCCCCTT
```

Restriction Sites:

NotI-NotI

ACCN:

NM_002082

Insert Size:

2880 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 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](#)

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_002082.2](#), [NP_002073.2](#)

RefSeq Size: 2932 bp

RefSeq ORF: 1770 bp

Locus ID: 2870

UniProt ID: [P43250](#)

Cytogenetics: 5q35.3

Domains: RGS, pkinase, S_TK_X, TyrKc, S_TKc

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

Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (B).