

Product datasheet for **SC320538**

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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001004106.1
 CCGAGCCGCGCCGAGCCGCGCCGATCGCCATCCGGCCTCGGCACTCGCGCGCATCCCGG
 CCGGCGGCGCGGCCCGGCGGGCCAGGCGGCGCCACAGCCCATGGAGCTCGAGAACATCGT
 AGCGAACACGGTGCTACTCAAGGCCCGGAAGGTGGCGGTGAAATCGCAAAGGCAAAAG
 CAAGAAATGGCGGCAGATGCTCCAGTTCCTCACATCAGCCAGTGCAGAGCTGCGGCT
 CAGCCTCGAGCGTACTATCACAGCCTGTGCGAGCGGCAGCCATTGGGCGCTGCTGTT
 CCGAGAGTTCTGTGCCACGAGGCCGAGCTGAGCCGCTGCGTCCCTTCTGGATGGGTT
 GGCCGAGTATGAAGTGACCCCGGATGACAAGCGGAAGGCATGTGGCGGCGAGCTAACGCA
 GAATTTTCTGAGCCACACGGTCTGACCTCATCCCTGAGGTCCCCCGGAGCTGGTGAC
 GAACTGCACCCAGCGGCTGGAGCAGGTCCTGCAAAGACCTTTTCCAGGAACTCACCCG
 GCTGACCCACGAGTACCTGAGCGTGGCCCTTTTGCCGACTACCTCGACAGCATCTACTT
 CAACCGTTTCTGCAGTGAAGTGGCTGGAAAGGCAGCCAGTGACCAAAAACACCTTCAG
 GCAATACCGAGTCTGGCAAAGTGGCTTTGGGAGGTGTGCGCCTGCCAGGTGCGGGC
 CACAGGTAAGATGTATGCCTGCAAGAAGCTAGAGAAAAAGCGGATCAAGAAGCGGAAAGG
 GGAGGCCATGGCGCTGAACGAGAAGCAGATCCTGGAGAAAAGTGAACAGTAGGTTTGTAGT
 GAGCTTGGCCTACGCCTATGAGACCAAGGACGCGCTGTGCTGGTGTGACACTGATGAA
 CGGGGGCGACCTCAAGTTCACATCTACCACATGGGCCAGGCTGGCTTCCCCGAAGCGCG
 GGCCGTCTTACGCCGCGGAGATCTGCTGTGGCCTGGAGGACCTGCACCCGGGAGCGCAT
 CGTGTACAGGGACCTGAAGCCCGAGAACATCTTGTGGATGACCACGGCCACATCCGCAT
 CTCTGACCTGGGACTAGCTGTGCATGTGCCCGAGGGCCAGACCATCAAAGGGCGTGTGG
 CACCGTGGGTTACATGGCTCCGGAGGTGGTGAAGAATGAACGGTACACGTTACGCCCTGA
 CTGGTGGGCGCTCGGCTCCCTGTACGAGATGATCGCAGGCCAGTCCGCTTCCAGCA
 GAGGAAGAAGAAGATCAAGCCGGAGAGGTGGAGCGGCTGGTGAAGGAGGTCCCCGAGGA
 GTATTCCGAGCGCTTTTCCCGCAGGCCGCTCACTTTGCTCACAGCTCCTCTGCAAGGA
 CCTGCCGAACGCTGGGGTGTGCTGGGGCAGTGCCCGCAGGTTGAAGGAGCACCCCT
 CTTAAGAAGCTGAACCTCAAGCGGCTGGGAGCTGGCATGCTGGAGCCGCGTTCAAGCC
 TGACCCCCAGGCCATTTACTGCAAGGATGTTCTGGACATTGAACAGTTCTCTACGGTCAA
 GGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAGAAGTTTCCACAGGCAGTGT
 GCCCATCCCTGGCAGAACGAGATGGTGGAGACCGAGTGTCCAAAGAGCTGAATGTCTT
 TGGGCTGGATGGCTCAGTCCCCCAGACCTGGACTGGAAGGGCCAGCCACCTGCACCTCC
 TAAAAAGGGACTGCTGCAGAGACTTTCAGTCGCCAAGATTGCTGTGGAACTGCAGCGA
 CAGCGAGGAAGAGCTCCCCACCCGCTCTAGCCCCAGCCGAGGCCCCACCAGCAGTT
 GGCGGTAGCAGCTACTCCGAGCGCCGTTTACAGTTTTGCACAGTGTCTTCCCCATTGTC
 CACTCAAGTCGTGGCCTGGGGAACACAGACGGAGCTGTCCCCAGTGTCTCCGTCCTCA
 GCCCTGGCCTGGCTGAGTTTGGCAGGGCCTGGGCCATCCCTGGGACAAAGGTGCGTCCC
 TTCAGCTCTTCTCCGTGGAGCTCGGGCTTTCTGTATTTATGTATTTGTACGAATGTATA
 TAGCGACCAGAGCATTCTTAATTCGCCCGCAGACCTGGCGCCCCCGCTTGGCTCCTGG
 GGGCAGCCAGCCCTGGCTGGGAGAGCGGGAGCTGGCAGAGGAGCCACTGCCAACTCAAG
 GCTCCTCTGGCCCAGCTTGGATGGCTGAGGGTGGTACACCCCTGAGCCTTCAGCAGTGT
 GCTGGCCACCCCGCCTCTGAGTAAGACTCGTGCCTCCCCCTGCTGCCCTGGGCTCAGGC
 TGCTACCCCTGCGGGCCAAAGCTGTCCCTTCTCAGTGCTTGTACGCGCTGGGTCTGGGG
 CCTCTGTATGCCCTAGGCCTGTGCCAAAGTGGCCAGAGATTGGGCTGCCTGTGATACCCA
 TCAGCCCACTGCCCGGCGGCCAGATAGGTCTGCCTTCCAGCTCCCACAGCC
 TGGTCCCTGATACTGGGCTCTGTCTGCAGACCTCTTTAGAAAACGCCAAGCCAGC
 CCCTAGGAGGGGGTGGGCATCCCTGGTCAACCCTCAAACATCCGGACTCCCCTATAA
 CAATAGACACATGTGCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001004106

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](#)

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_001004106.1](#), [NP_001004106.1](#)

RefSeq Size: 2930 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

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.