

Product datasheet for **SC310254**

GRK4 (NM_182982) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK4 (NM_182982) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRK4
Synonyms:	GPRK2L; GPRK4; GRK4a; IT11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_182982 edited
 CAGGGCACTGAGGAGGGAGTTGCGCGCGAGGCGAGGGCGATGGGGCCAAGAAGAACCG
 GGGCGATAGCGCGGCAGCGGTGACAGCTGGGACCCGCGCGGTGCGGGCTGCCCCCTCCC
 TCGCCCCGACCGCTCCCCTGCTGGTGAGGGCTGCGGAGGCGGCGGGCGGGCCCTTG
 GTGGCAGTGGTGGCGGCGAGCAGCCTCCCGGATCGTGTCCGGAGCTCGAGGAGAGGGT
 GGTGCCCGGCGAGCTATGCACGGGGCGGCGGCTCCTCCTGTTCCGCCTCCTCAGTC
 TCCTCGGTCTCGCAGAATCCGCCGGCGGCGGCGCCAGGACATGGAGCTCGAGAACAT
 CGTGGCCAACCTCGCTGCTGCTGAAAGCGGTCAAGGAGGATATGGCAAAAAAAGTGGTGG
 TAGTAAAAAATGGAAGGAGATACTGACACTGCCTCCTGTGAGCCAGTGCAGTGAGCTTAG
 ACATTCCATTGAAAAGGATTATAGCAGTCTTTGTGACAAGCAACCGATAGGAAGACGTCT
 CTTAGGCAGTTCTGTGATACCAAACCCACTCTAAAGAGGCACATTGAATTCTTGGATGC
 AGTGGCAGAATATGAAGTTGCCGATGATGAGGACCGAAGTATTGTGGACTGTCAATCTT
 AGATAGATTCTTCAATGATAAGTTGGCAGCCCCTTACCAGAAATACCTCCAGATGTTGT
 GACAGAATGTAGATTGGGACTGAAGGAGGAGAACCCTTCAAAAAAGCCTTTGAGGAATG
 TACTAGAGTTGCCATAACTACCTAAGAGGGGAACCATTTGAAGAATACCAAGAAAGCTC
 ATATTTTTCTCAGTTTTTACAATGGAAATGGCTGGAAAGGCAACCCGTAACAAAGAACAC
 ATTTAGACATTACAGAGTTCTAGGAAAAGCGGATTTGGAGAGGTTTGGCCCTGTCAAGT
 GCGAGCCACAGGAAAAATGTATGCCTGCAAAAAGCTACAAAAAAGAAATAAAGAAGAG
 GAAAGGTGAAGCTATGGCTCTAAATGAGAAAAGAAATTCTGGAGAAAGTCAAAAGTAGATT
 CGTAGTTAGTTTACGCTACGCTTATGAAACCAAGATGCCTTGTGCTTGGTGCTCACCAT
 TATGAATGGAGGGGATTTGAAGTTTACATTTACAACCTGGGCAATCCCGGCTTTGATGA
 GCAGAGAGCCGTTTTCTATGCTGCAGAGCTGTGTTGCGGCTTGAAGATTTACAGAGGGA
 AAGAATTTGATACAGAGACTTGAAGCCTGAGAATATTCTCCTTGATGATCGTGGACACAT
 CCGGATTTAGACCTCGTTTTGGCCACAGAGATCCAGAAAGGACAGAGGTTTCGAGGAAG
 AGTTGGAACAGTCGGCTACATGGCACCTGAAGTTGTCAATAATGAAAAGTATACGTTTAG
 TCCCGATTGGTGGGACTTGGCTGTCTGATCTATGAAATGATTACAGGACATTCTCCATT
 CAAAAATACAAAGAGAAAGTCAAATGGGAGGAGGTCGATCAAAGAATCAAGAATGATAC
 CGAGGAGTATTCTGAGAAGTTTTAGAGGATGCCAAATCTATCTGCAGGATGTTACTCAC
 CAAGAATCCAAGCAAGCGGCTGGCTGCAGGGCGAGGGAGCGGCTGGGGTGAAGCAGCA
 CCCCCTGTTCAAGGACATCAACTTCAGGAGGCTGGAGGCAACATGCTGGAGCCCCCTTT
 CTGTCCTGATCCTCATGCCGTTTACTGTAAGGACGTCCTGGATATCGAGCAGTTCTCGGC
 GGTGAAAGGGATCTACCTGGACACCGCAGATGAAGACTTCTATGCTCGGTTTGCTACCGG
 GTGTGTCTCCATCCCCTGGCAGAATGAGATGATCGAATCTGGGTGTTTCAAAGACATCAA
 CAAAAGTAAAAGTGAAGGAGCTTTGCCATTAGATCTAGACAAGAACATACATACCCCGGT
 TTCCAGACCAAACAGAGGCTTCTTCTATAGACTTTCAGAAGAGGGGGCTGCCTGACCAT
 GGTCCCCAGTGAGAAGGAAGTGAACCCAAGCAATGCTGAGCACCCCGGTGCGGACCACA
 GAGCAGACCCTGGCGCCAGGAAGGAGCATGTGTTAGCGTCTCGTCCCACCTG

Restriction Sites: Please inquire

ACCN: NM_182982

Insert Size: 2100 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>The ORF of this clone has been fully sequenced and found to be a perfect match to NM_182982.2.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_182982.2, NP_892027.2</p>
RefSeq Size:	<p>2321 bp</p>
RefSeq ORF:	<p>1737 bp</p>
Locus ID:	<p>2868</p>
UniProt ID:	<p>P32298</p>
Cytogenetics:	<p>4p16.3</p>
Protein Families:	<p>Druggable Genome, Protein Kinase</p>
Protein Pathways:	<p>Chemokine signaling pathway, Endocytosis</p>
Gene Summary:	<p>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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (alpha).</p>