

Product datasheet for **SC323679**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323679 sequence for NM_002082 edited (data generated by NextGen Sequencing)

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ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTACTCAAGGCCCGGAAGGTGGCGGT
GGAAATCGCAAAGGCAAAAGCAAGAAATGGCGGCAGATGCTCCAGTTCCTCACATCAGC
CAGTGCGAAGAGCTGCGGCTCAGCCTCGAGCGTACTATCACAGCCTGTGCGAGCGGCAG
CCCATTTGGGCGCCTGCTGTTCCGAGAGTTCTGTGCCACGAGGCCGGAGCTGAGCCGCTG
CTCCCTTCCCTGGATGGGTGGCCGAGTATGAAGTGACCCCGGATGACAAGCGGAAGGCA
TGTGGGCGGCAGCTAACGCAGAATTTTCTGAGCCACACGGGTCTGACCTCATCCCTGAG
GTCCCCCGGCAGCTGGTACGAACCTGCACCCAGCGGCTGGAGCAGGGTCCCTGCAAAGAC
CTTTTCCAGAACTACCCGGCTGACCCACGAGTACCTGAGCGTGGCCCTTTTGCCGAC
TACCTCGACAGCATCTACTTCAACCGTTTCTGCAAGTGAAGTGGCTGGAAAGGCAGCCA
GTGACCAAAAACACCTTCAGGCAATACCGAGTCTGGCAAAAGTGGCTTTGGGGAGGTG
TGCGCCTGCCAGGTGCGGGCCACAGGTAAGATGTATGCCTGCATGAAGCTAGAGAAAAAG
CGGATCAAGAAGCGGAAAGGGGAGGCCATGGCGCTGAACGAGAAGCAGATCCTGGAGAAA
GTGAACAGTAGGTTTGTAGTGAGCTTGGCCTACGCCTATGAGACCAAGGACGCGTGTGC
CTGGTGTGACACTGATGAACGGGGGCGACCTCAAGTTCACATCTACCACATGGGCCAG
GCTGGCTTCCCCGAAGCGCGGGCGTCTTCTACGCCGCCGAGATCTGCTGTGGCCTGGAG
GACCTGCACCCGGGAGCGCATCGTGTACAGGGACCTGAAGCCCAGAACATCTTGCTGGAT
GACCACGGCCACATCCGCATCTCTGACCTGGGACTAGCTGTGCATGTGCCCGAGGGCCAG
ACCATCAAAGGGCGTGTGGGCACCGTGGGTTACATGGCTCCGGAGGTGGTGAAGAATGAA
CGGTACACGTTACGCCCTGACTGGTGGGCGCTCGGCTGCCTCCTGTACGAGATGATCGCA
GGCCAGTCGCCCTTCCAGCAGAGGAAGAAGAAGATCAAGCGGGAGGAGGTGGAGCGGCTG
GTGAAGGAGTCCCCGAGGAGTATCCGAGCGCTTTTCCCGCAGGCCCGCTCACTTTTCG
TCACAGCTCCTCTGCAAGGACCCTGCCGAACGCCTGGGGTGTCTGGGGGCAAGTGGCCGC
GAGGTGAAGGAGCACCCCTCTTTAAGAAGCTGAACCTCAAGCGGCTGGGAGCTGGCATG
CTGGAGCCGCCCTTCAAGCCTGACCCCCAGGCCATTTACTGCAAGGATGTTCTGGACATT
GAACAGTCTCTACGGTCAAGGGCGTGGAGCTGGAGCCTACCGACCAGGACTTCTACCAG
AAGTTTGGCACAGGCAGTGTGCCATCCCCTGGCAGAACGAGATGGTGGAGACCGAGTGC
TTCCAGGAGCTGAATGTCTTTGGGCTGGATGGCTCAGTTCCCCCAGACCTGGACTGGAAG
GGCCAGCCACCTGCACCTCCTAAAAAGGGACTGCTGCAGAGACTTTCAGTCGCCAANNNG
ATTGCTGTGAAACTGCAGCGACAGCGAGGAAGAGCTCCCACCCGCCTTAGCCCCCAG
CCCAGGCCCCACCAGCAGTTGCGGTAG
    
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Clone variation with respect to NM_002082.3
 644 a=>t;1392 g=>c;1566 a=>g;1678 a=>n;1679 g=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_002082 unedited

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CCCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
CCGTACAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGGCCGGGAGG
CCGCGGCGCGGTCACTGCGAGCCGAGCCGAGCCGCGCGGAGCCGCGCCGATCGCCATCCGGCCTCGGCAC
TCGCGCGCGATCCCGGCCGGCGCGGCCCGGGCCAGGCGGCGCCACAGCCATGGAGCTCGAGAA
CATCGTAGCGAACACGTGCTACTCAAGCCCGGAAGGTGGCGGGTGGAAATCGCAAAAGGCAAAAGCAA
GAAATGGCGGGCAGAATGGCTTCCAGTTTCCCTCACATCAAGCCAGTGCAGAAAAGCTGCGCGGCTCC
AGCCTCCGAGCGGTGACTATATCACAGCTGGGCGCAAGCCGGCACCCAAATTTGGCCCGTGTGCTGGTT
CGAAAGATTTTTGGGCCACAAGGCGGGACCTAACCCCTGCTTCCCTTTTCTGGGATGGGGGGGGCC
AATTGAAATGAGCCCCGAGGAAAAAGCCGGAAGGGTTTGGGGGGGGAACCTAACCCAAATTTTTTCAA
GCCAACAGGGCCCTGACCCTACCCGAGGGTCCCCCGGCACTGGGGAAAAAATGAAACAAAGGGGTG
GGGCAAGGGGCTGGCGAGAACATTTTTCCGAAAAATAAACGGGGGAAAAAAGAATACCCGAGCGTGGG
CCCTTTTTTTCGCAACCTCCGCCAGAAGCTTCTTTTTCCGCTTTTTTGCAGTGAAAAATACTGAAAAAGAA
GCCCTGTGCAAAAAAACAACCTTTGGCGGAACTACTCCTCTGCGAAAAAGGCTTTTTTGAAGAGTGTTC
TCCCATGTGCCACACAAAAAATATTACCTCTATCCACTATAAAACCATATTATCATACGATAAGAG
GGGTGCGTCACTGCGCATCACGACAAACATTGCTATA
    
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Kinase Domain Sequence:	>SC323679 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CTTYCGACMGTGMAAACACCTTCAGGCATACCGAGTCCTGGGCAAAGGTGGCTTTGGGGAGGTGTGCGC CTGCCAGGTGCGGGCCACAGGTAAGATGTATGCCTGCATGAAGCTAGAGAAAAAGCGGATCAAGAAGCGG AAAGGGGAGGCCATGGCGCTGAACGAGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTAGTGAGCT TGGCCTACGCCTATGAGACCAAGGACGCGCTGTGCCTGGTGCTGA
Restriction Sites:	Please inquire
ACCN:	NM_002082
Insert Size:	2880 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:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<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:	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:	<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 their deactivation. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (B).</p>