

Product datasheet for **SC323499**

GRK5 (NM_005308) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK5 (NM_005308) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRK5
Synonyms:	FP2025; GPRK5
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 SC323499 sequence for NM_005308 edited (data generated by NextGen Sequencing)

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ATGGAGCTGAAAAACATCGTGGCCAACACGGTCTTGTCTGAAAGCCAGGGAAGGGGGCGGA
GGAAAGCGCAAAGGGAAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCTCACATTAGC
CAGTGTGAAGACCTCCGAAGGACCATAGACAGAGATTACTGCAGTTTATGTGACAAGCAG
CCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGCCCTGGGCTGGAGTGTAC
ATTCAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAAACTGGGAGAG
AAAGGGAAGGAAATTATGACCAAGTACCTCACCCAAAGTCCCCTGTTTTCATAGCCCAA
GTTGGCCAAGACCTGGTCTCCCAGACGGAGGAGAAGCTCTACAGAAGCCGTGCAAAGAA
CTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTACCTGAGGGGAGAACCATTCCACGAA
TATCTGGACAGCATGTTTTTTGACCGCTTCTCCAGTGGAAAGTGGTTGAAAGGCAACCG
GTGACCAAAAACACTTTCAGGCAGTATCGAGTGTAGGAAAAGGGGGCTTCGGGGAGGTC
TGTGCCTGCCAGGTTTCGGGCCACGGGTAATAATGTATGCCTGCATGCGCTTGGAGAAGAAG
AGGATCAAAAAGAGGAAAGGGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAG
GTCAACAGTCAGTTTGTGGTCAACCTGGCCTATGCCTACGAGACCAAGGATGCACTGTGC
TTGGTCTCGACCATCATGAATGGGGTGACCTGAAGTTCACATCTACAACATGGGCAAC
CCTGGCTTCGAGGAGGAGCGGGCTTGTTTTATGCGGCAGAGATCCTCTGCGGCTTAGAA
GACCTCCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTAGAT
GATTATGGCCACATTAGGATCTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGAC
CTGATCCGCGGCCGGGTGGGCACTGTTGGCTACATGGCTCCAGAGGTCCTGAACAACCG
AGGTACGGCCTGAGCCCCGACTACTGGGGCCTTGGCTGCCTCATCTATGAGATGATCGAG
GGCCAGTCGCGCTTCCGCGGCCCAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCCGG
GTCTCGAGACGGAGAGGTGACTCCCAAGTCTCCGAGGAGGCCAAGTCCATCTGC
AAGATGTGCTCACGAAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCA
GAGGTCAAGAGACACCCCTTCTTCAGGAACATGAACCTCAAGCGCTTAGAAGCCGGGATG
TTGACCCTCCCTCGTTCCAGACCCCCGCGCTGTGACTGTAAGGACGTGCTGGACATC
GAGCAGTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACTCC
AAGTCTCCACGGGCTCTGTGTCCATCCCATGGCAAAACGAGATGATAGAAAACAGAAATGC
TTTAAGGAGCTGAACGTGTTGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAAC
CACCTCCGGAACCGCCAAAGAAAGGGCTGCTCCAGAGACTCTTCAAGCGGCAGCATCAG
AACAAATCCAAGAGTTCCGCCAGCTCCAAGACCAGTTTTAACACCACATAAACTCAAAC
CATGTCAGCTCGAACTCCACCGAAGCAGCTAG
    
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Clone variation with respect to NM_005308.2
644 a=>t

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_005308 unedited

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CGCCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTGAAC
CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGTAGGCAAGGCG
GGCTGCTGGCTCCCCCGCTCCGGCAGCAGCGCGGCAGCCGAGCAGCGGCAGCAGCAGCGGCAGCACC
CCAGGGCGTGACAGCCCCCGCGCGGCTCCGTTGCTGACCGCGACTGTCAATGGAGCTGGAAAACATC
GTGGCCAACACGGTCTTGTGAAAGCCAGGGAAGGGGGCGGAGGAAAGCGCAAAGGGAAAAGCAAGAAGT
GGAAAGAAATCCTGAGGTTCCCTCACATTAGCCAGTGTGAAGACCTCCGAAGGACAATAGACAAGAAAAAT
AACCTGGCAAGTTATATGTGACCAAGCCAGCCAATCCGGGAGGGCTTGTTTTTCCGGCAGTTTTGGTGA
AACCCAGGCTGGGGCTGGAGATGGTTACATTAGTTCGGACTCCCGGTGGGAAAATAATGAGGTAATT
CCAAATGAAAACCTGGGGAGAAAAAGGGAAGGGAATTTTTGACAGTTACCTACCCAAAGGTCCCCGTGTTT
TCATAGCCAGTTTGCCAGCCTGGGTCTCCCAAAGGGGAGAAAACCTCTCTACAAAACGCTGCGCAGAGATC
TTTTCTGTGTGTGCGCACACTGTGTCCAAGACCCGAGGGGGAACACTTCTCCCAATATTGTGACACGCTG
TTTGACGCGTTTTCCACTGTAGAAGGTGGTGAAGGAGCCAGTGTACACAACACTCTTGGCATTATAGCT
CAGAAAGGGCTCTGCGAGACTGTCTGCCAAAATGCAACGGGAATATGACCCTCGCTTCGGAAAAGAAAAC
    
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Kinase Domain Sequence:	>SC323499 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 GMTGGTGACAAAACACTTTMGGCAGTATCGAGTGCTAGGAAAAGGGGGCTTCGGGGAGGTCTGTGCCTGC CAGGTTTCGGGCCACGGGTAATAATGTATGCCTGCATGCGCTTGGAGAAGAAGAGGATCAAAAAGAGGAAAG GGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAGGTCAACAGTCAGTTTGTGGTCAACCTGGC CTATGCCTACGAGACCAAGGATGCACTGTGCTTGGTCCTGACCAT
Restriction Sites:	Please inquire
ACCN:	NM_005308
Insert Size:	2280 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005308.2 , NP_005299.1
RefSeq Size:	2575 bp
RefSeq ORF:	1773 bp
Locus ID:	2869
UniProt ID:	P34947
Cytogenetics:	10q26.11
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. It has also been shown to play a role in regulating the motility of polymorphonuclear leukocytes (PMNs). [provided by RefSeq, Jul 2008]