

## Product datasheet for **SC110910**

### 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
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005308 edited  
 ATGGAGCTGAAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCAGGGAAGGGGCGGA  
 GGAAGCGCAAAGGGAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCTCACATTAGC  
 CAGTGTGAAGACCTCCGAAGGACCATAGACAGAGATTACTGCAGTTTATGTGACAAGCAG  
 CCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTAAACCAGGCCTGGGCTGGAGTGTTAC  
 ATTCAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAACTGGGAGAG  
 AAAGGGAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTTCATAGCCCAA  
 GTTGGCCAAGACCTGGTCTCCCAGACGGAGGAGAAGCTCCTACAGAAGCCGTGCAAAGAA  
 CTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTACCTGAGGGGAGAACCATTCCACGAA  
 TATCTGGACAGCATGTTTTTTGACCCTTTCTCCAGTGGAAAGTGGTTGGAAGGCAACCG  
 GTGACCAAAAACACTTTCAGGCAGTATCGAGTGTAGGAAAAGGGGGCTTCGGGGAGGTC  
 TGTGCCTGCCAGGTTTCGGGCCACGGGTAATGTATGCCTGCAAGCGCTTGGAGAAGAAG  
 AGGATCAAAAAGAGGAAAGGGGAGTCCATGGCCCTCAATGAGAAGCAGATCCTCGAGAAG  
 GTCAACAGTCAGTTTGTGGTCAACCTGGCCTATGCCTACGAGACCAAGGATGCATGTGC  
 TTGGTCTGACCATCATGAATGGGGGTGACCTGAAGTTCACATCTACAACATGGGCAAC  
 CCTGGCTTCGAGGAGGAGCGGGCTTGTTTTATCGCGCAGAGATCCTCTGCGGCTTAGAA  
 GACCTCCACCGTGAGAACACCGTCTACCGAGATCTGAAACCTGAAAACATCCTGTAGAT  
 GATTATGGCCACATTAGGATCTCAGACCTGGGCTTGGCTGTGAAGATCCCCGAGGGAGAC  
 CTGATCCGCGGCCGGGTGGGCACTGTTGGCTACATGGCTCCGGAGGCTCTGAACAACCG  
 AGGTACGGCTGAGCCCCGACTACTGGGCTTGGCTGCCTCATCTATGAGATGATCGAG  
 GGCCAGTCGCCGTTCCGCGGCCCAAGGAGAAGGTGAAGCGGGAGGAGGTGGACCGCCGG  
 GTCCTGGAGACGGAGGAGGTGACTCCCACAAGTCTCCGAGGAGGCCAAGTCCATCTGC  
 AAGATGCTGCTCACGAAAGATGCGAAGCAGAGGCTGGGCTGCCAGGAGGGGGGCTGCA  
 GAGGTCAAGAGACACCCCTTCTTCAGGAACATGAACCTCAAGCGCTTAGAAGCCGGGATG  
 TTGGACCTCCCTTCTGTTCCAGACCCCCGCTGTGACTGTAAGGACGTGCTGGACATC  
 GAGCAGTCTCCACTGTGAAGGGCGTCAATCTGGACCACACAGACGACGACTTCTACTCC  
 AAGTTCTCCACGGGCTCTGTGTCCATCCCATGGCAAAACGAGATGATAGAAAACAGAAATGC  
 TTTAAGGAGCTGAACGTGTTTGGACCTAATGGTACCCTCCCGCCAGATCTGAACAGAAAC  
 CACCCTCCGGAACCGCCAAAGAAAGGGCTGCTCCAGAGACTCTTCAAGCGGCAGCATCAG  
 AACAAATCCAAGAGTTCGCCAGCTCCAAGACCAGTTTTAACACCACATAAACTCAAAC  
 CATGTCAGCTCGAACTCCACCGAAGCAGCTAG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_005308 unedited  
 NGGTCAAATTTGTATACGACTCATATAGCGGCNCGCAATTCGCACGAGGGCGGTAGG  
 CAAGGCGGGCTGCTGGTCCCCCGGCTCCGGCAGCAGCGCGGCAGCCCGAGCAGCGGCA  
 GCAGCAGCGGCAGCACCCAGGGCTGACAGCCCCGCGCGGGCTCCGTTGCTGACCGC  
 CGACTGTCAATGGAGCTGGAAAACATCGTGGCCAAACCGTCTTGCTGAAAGCCAGGGAA  
 GGGGGCGAGGAAAGCGCAAAGGAAAGCAAGAAGTGGAAAGAAATCCTGAAGTTCCT  
 CACATTAGCCAGTGTGAAGACCTCCGAAGGACCATAGACAGAGATTACTGCAGTTTATGT  
 GACAAGCAGCCAATCGGGAGGCTGCTTTTCCGGCAGTTTTGTGAAACCAGGCCTGGGCTG  
 GAGTGTTACATTAGTTCCTGGACTCCGTGGCAGAATATGAAGTTACTCCAGATGAAAA  
 CTGGGAGAGAAAAGGGAAGGAAATTATGACCAAGTACCTCACCCCAAAGTCCCCTGTTTTT  
 ATAGCCAAAGTTGGCCAAGACCTGGTCTCCAGACGGAGGAGAAGCTCCTACAGAAGCCG  
 TGCAAAGAACTCTTTTCTGCCTGTGCACAGTCTGTCCACGAGTACCTGAGGGGAGAACCA  
 TTCCACGAATATCTGGACAGCATGTTTTTTGACCGCTNTCTCCAGTGGAAAGTGGTTGGAA  
 AGGGGCACCGTGACCAAAAACACTNTCAGGCAGTATCGAGTGTANGAAAAGNGGCTCG  
 GNGAGGCTGTGCCTGCCAGGTTCCGGCCACGGTAAAATGTATGCCTGNCAGCGCTGGN  
 AGAAGAANAGGGATCAAAGAGGAAAGGGGAGTTCATGGCCCTCATGAGAAGCAGACCTC  
 GAA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_005308 unedited CCCCCCAATAGGTTGGACCGTCGGCCGCATCCTAGGAGCGAGTTTTTTTTTTTTTTTTT TTGATAACCCCTCCCGCTAAAATGCCTTNGAACACATGGCTTAACAGTGGCTGCACA GAAAATATACACCCTCAAAGTCTCACTTTCATTTAAATACAAATATACAAAATGTAAC GAGACAGTAGAGAAATTTACAAAACCTTTCTTTAAAAATCATAAAGACAAAATTCAGTTC TAGTTATGACGCTATTAATAACGTGCAAGTTGTCGTATCCAATTGGATTCTATTGCAA TGTTACCAAAGACAAATCCAATCCACCCCGGGCCGGCCCTCGGAAAACAGACCTGA GTGGAAATTTCTTTGAGAAACCTCGAGGTTCTAGTTCGACGGGATGGACGGCCTCCTCC CCGGCTCCCGGGGTCTCCCTGGCAGCCCCACAGAGCAGGGGCTCCACTACTTCCACTT CTAAGGAGAAGGGTCTGGGCTGGTTCCACTGTGGACTTGGAGGCCAGAGCCGAACTAGC TGCTTCCGGTGGAGTTCGAGCTGACATGGTTTGAGTTTATGTGGTGGTAAAACTGGTCT TGGAGCTGGGCGAACTCTTGAATTGTTCTGATGCTGCCGCTTGAAGAGTCTCTGGAGCA GCCCTTTCTTGGGCGGTTCCGGAGGGTGGTTTCTGTTCCAGATCTGGCGGAGGGTACCA TTANGTCCAAACAGTTCAGCTCCTTAAAGCATTCTGTTTCTATCATCTCGTTTTGCCAT GGGATGGACACAAGAGCCGTGGTAGAGCTTGAAGTAGAAATCCTTCGCTGGTGTGGTCCA GAATGACGCCCTTACAGTGGAGAACTGGTTCGAGTCCAACACGTCTTTTCAGTAACAGG CCCGGGGGCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005308
<b>Insert Size:</b>	2280 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_005308.2</a> , <a href="#">NP_005299.1</a>
<b>RefSeq Size:</b>	2575 bp
<b>RefSeq ORF:</b>	1773 bp
<b>Locus ID:</b>	2869
<b>UniProt ID:</b>	<a href="#">P34947</a>
<b>Cytogenetics:</b>	10q26.11
<b>Domains:</b>	RGS, pkinase, S_TK_X, TyrKc, S_TKc
<b>Protein Families:</b>	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]