

Product datasheet for SC128096

GRK1 (NM_002929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRK1 (NM_002929) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRK1
Synonyms:	GPRK1; RHOK; RK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002929 edited
CTCCTCATTCTTCTCCAAACCTTTATTGAGTACCTACTGTGTGCTGGAATAAGACAGGCA
GGGCCATGCCCTCATGAAGCTGACAATCCTATTGGTGTGACCATCCCCAGGTGTGTCCCA
GGTGTGTTGCAGGTGTGTCCGAGGTATGCCCCAGCTGTCCAGGTGTGCCCCAGCTGTCT
CAGATGTGCCCCAGCTGTCCCAGGTGTGTACAGCTGCATTGCAGGTGTGCCCCAGTTGC
ATTCCATGTGTGCTCCAAGTGTGTACCAGCTGTCCCAGGTGTGTCTCAGGTGTGCCCCAG
CTGTATCCCAGGTGTGCCCTCAGCTGTCTTAGGTGTGTCTCAGGTGCATCCCAGGTGTGC
TCAGATGTGCCCCAGCTGTCCCAGGTGTGCCCCAGCTGTCCCAGGTGTGCCCCAGCTGTC
TCCAGTGTGTCCCAGCTGTGCCCCAGGTGTGTCTCAGGTGTGCCTCAGCTGTCTCAGG
TGTGCCCCAGGCATATCCCAGGTGTGCCCCAGCTGTCCCAGGTGTCTCAGTGTGCAC
CAGCTGTATCCCAGGTGTGCCCCAGGTGTCTCAGATGGGTCCCAAGTGTCCCAACT
GCATTTAGGTGTCTCAGGTGTGCCCAAGCTGTCCCAGGTGTGTCCAAGATGTGCCCCAG
GTGTGTCTCAGGTGGGTCTCAAGTGCCCCAGCTGCATTTAGGTGTCTCAGGTGTGCCCC
CCAGTGCATCCCAGGTGTGTCCCAGGTGTGCCCCAGGTGCATCCCAGGTGTGTCCCAGGT
GTGCCCCAGCTGTCTCAGGTGTCTCAGGTGTGCCCCAGGCATATCCCAGGTGTGCCTCAG
CTCTCCCAGGTGTGTCTACATGTGCACCAGCTGTATCTCAGGTGTGTCTCAGGTGTGCC
CCAGATGTGCCCCGGTGTGTCTCAGGTGGGTCCCAAGTGTCCCAAGTGCATTTCAAG
GGTGTCTCAGGTGTGCCCCAGGTGTGCCCCGGTGTCCCAGGTGTGTCCAAGATGTACCCCA
GGTGTCTCCCAGCTGTCCAAGTGTGTCTCAGGTGTGCCCCAGGTGTGTCCAGGTGTTCC
CCCAGCTGTCCCAGCTGTCCCAGGTCTCAGGTGTGCCCCAGGTGTGTCCAGGTGTTCCAG
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GCTGTCCCAGCTGTCCCAGGTGTGTCCCAGGTGTTCCCAAGTGTGTCCCAGCTGTCCCA
GGTGTGTCCCAGATGTGCCCCAGGTGTACCCAGGTGTTTCTCAGGTGGATTCCAGGTGT
GTCCCAGGTGAGCCCAAGCTGTATTCCATATGCGTCCCTCTGAGTGGGGCCTTGGTTTGA
TGAGCTCCGGGATCTTCTGCTCCCTGGTCTGGTGTACCAGCAACTGCCTCTTGACA
ATCCTGCCTTGCCTGCAAACCCAGGTGAGAAGAAGACAATGACTGGGAAGTACCCTT
CAGTAAGCGCTGGTGTCTCACCTACAGACCCCAAGGAGCTGGTCACTGTGGGCTTCTT



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TTCTCTCTAAATTCCTATTATCAGGTGGTTTTCTTTCTCATTTGCTATTTTCTTAAAAA
TAAAAATAGGGAAAAACAGCCTTTGTAATACGGTTTCTCCGGCTCCATCCTCTCCGT
CAGGCCACATCCCAAGGAAACAGCAGGCTTGAGCCTGGCTGCTGAAGCCAGGGGCTGGA
TGGAGCAGCTCAGAACAGAGCTTTGAGTGCCTCTCCAGCCAGGGGCCAGAAAGCCTGGT
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ACTCCTAAGCGTCTCCGTGACCCCGCTGGGATTTAGCCTGGTGTGTGTCAGCCCGG
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TGAACGCTCCCGGCTTGGCTCGGCTGATGGGCCCTCACGCCTGAAGCGGGCAGGAAGCT
CCGGGATGGATTTGGGTCTTTGGAGACCGTGGTGGCCAACCTCTGCCTTTCATCGCCGCC
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TCAAGTGTCCCGCTGTCCAAGTGTGAGTCCCTCCGCGACAGCCTCAGCCTGGAGTTT
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CGCAGATCATCTGCGGCCTGGAGCACCTGCACCAGAGGCGGATCGTCTACCGCGACCTCA
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TGGGGTTCAGAGATGAGACCTGCGACAAGCTCCGTGCCACCCCTTCTCAAGGACCTTA
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TCTACGCAAAGGATATTCAGGACGTGGGTGCCTTTTCCACCGTCAAAGGTGTGGCCTTTG
ACAAAACAGACACAGAATTTTTCAGGAATTTGCCACTGGCAACTGCCCATCCCTGGC
AGGAGGAGATGATCGAGACGGGCATCTTTGGCGAGCTGAACGTGTGGCGCTCGGACGGTC
AGATGCCGGACGACATGAAGGGCATCTCCGGGGCTCCAGCTCCTCGTCCAAGTCAGGGA
TGTGTCTGGTTTCCTAG

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002929 unedited</p> <pre>TCAGGCCTGCTCTGTCTGTGCACGCTCCCAACTTGGCCTCGGCTGGATGGGCCCTCACGC CTGAAGCGGGCAGGAAGCTCCGGATGGATTTTCGGGTCTTTGGAGACCGTGGTGGCCAAC TCTGCCTTCATCGCCGCCGAGGACGCTTTGACGGCAGCAGCTCCCAACCTCCCGGGAC AAGAAGTACCTGGCCAAGCTCAAGCTGCCCCGCTGTCCAAGTGTGAGTCCCTCCGCGAC AGCCTCAGCCTGGAGTTTGAGAGTGTGTGCTTGGAGCAGCCCATCGCAAGAAGCTCTTT CAGCAGTTCCTACAATCGCAGAGAAGCACCTGCCGGCCCTGGAGCTCTGGAAAGACATC GAGGACTATGACACGGCAGACAATGACCTCCAGCCACAGAAGGCCAGACCATCCTGGCC CAGTACCTGGACCCCAAGCCAACTCTTCTGCAGCTTCTGGATGAGGGGATAGTGGCG AAGTTTAAAGAGGGGCTGTGGAGATCCAGGACGGGCTTCCAGCCCCTGCTGCAGGCC ACCCTGGCACACCTGGGCAAGCCCCCTTCCAGGAGTACCTGGGCAGCCTGTACTTCCTG AGGTTCTGCAGTGAAGTGGCTGGAAGCCAGCCCATGGGGGAGGACTGGTTCTCGGAC TTCAAGGTCTGGGAAAGGGGGCTTCGGGGAGGTGTCGGCCTGGCCGATGAAAGCGACC GGCAAGCTGTATGCTGCAAAAAGCTGAACAAGAAGCCGCTGAAGAAAAAGAAAGGCTAC CAGGGTGTATGGTGGAGAAGAAGATTCTGATGAAAGTCCACAGCAGGTTTCATCGTGTCT CTGGCCTATGCGTTTTAAACCAACCAACCCCGTCCGGTATGACATCA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002929 unedited</p> <pre>GGGCCATTGGNGATGGCACTTCCAGGNCCAGNAAAGCACTGGGNGAGGGTCACAGGGATG CCACCCGGGATCTGTTCCAGGAAACAGCTATGACCGCGGCCGAATCTAGACTAGGAAACC AGACACATCCCTGACTTGGACGAGGAGCTGGAGCCCCCGAGATGCCCTTCATGTCGTCC GGCATCTGACCGTCCGAGCGCCACACGTTCCAGCTCGCCAAAGATGCCCGTCTCGATCATC TCCTCCTGCCAGGGGATGGGGCAGTTGCCAGTGGCAAATTCCTGAAAGAAATTCGTGTCT GTTTTGTCAAAGGCCACACCTTTGACGGTGGAAAAGGCACCCACGTCCTGAATATCCTTT GCGTAGACAGTTTTGGAGTCTGGGATGAAAGGGGGCATCAGCATCCAGCCTCCAGCTGC TCCAGTTAAGTCCCTTGAAGAGGGGGTGGGCACGGAGCTTGTGCGAGGTCTCATCTCTG AACCCAGGCGCTTCTCCGGGTCTTCTCCAGCAGCGCCTCGCAGAAGTCTTGCTGGCC TGGCTGAACTTATCAGGGTACTTCCAGGGCTCTGAGATGATCCGGTCTTCAGCTCCTTG TTCTCCACCTTCTCTCCACGGGCTCGGAAGGGTCTCTGGCCGCAATCATCTCATACAGG GTGACCCCGAGGCAAGTAGTCCACGGAGAAGTCGTAATCCTCGCCCTGCAGGAGCTCG GNGGCCATGAAACCTGNGGTCCCTGCGTAGCCCTTGGTCTTGCTCTGTCCGTCACGACG TCCACGGCCAGCCCAAGTCAGAGATCCGGACATTGCCGTATTGTCCAGCAGCACGTTCC TCGGGCTTGAGGTGCGGTAGACGATCCGCTCTGGTGAAGTGTCCAGGCCGCAAC</pre>
Restriction Sites:	Please inquire
ACCN:	NM_002929
Insert Size:	4100 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).
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_002929.2](#), [NP_002920.1](#)

RefSeq Size: 2100 bp

RefSeq ORF: 1692 bp

Locus ID: 6011

UniProt ID: [Q15835](#)

Cytogenetics: 13q34

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 rhodopsin and initiates its deactivation. Defects in GRK1 are known to cause Oguchi disease 2 (also known as stationary night blindness Oguchi type-2). [provided by RefSeq, Jul 2008]