

Product datasheet for **RN200761**

Grk1 (NM_031096) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk1 (NM_031096) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grk1
Synonyms:	Rhok
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200761 representing NM_031096
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTGCGGTCTTGAAACCGTGGTGGCCAACCTCGCCTTCATTGCGGCCCGAGGCAGCTTTGACG
 GAAGCAGCACCCCTCTTCCCGAGACAAGAAGTATCTGGCCAAGCTCCGGTTGCCCCACTGTCCAAGTG
 TGAGGGTCTCCGTGACAGCATCAGCCTAGAGTTTGACAACCTGTGCTCGGAGCAGCCATTGGCAAGAGG
 CTCTCCAGCAGTTCTGAAGACAGACGAGAGGCATGTGCCGGCTCTGGAGCTCTGGAAGGACATCGAGG
 ACTATGACACTGCCGATGACGACCTACGGCCACAGAAGGCTCAGGCCATCCTGGCTGAGTACCTGGACCC
 ACAGGGCACACTTTCTGCAACTTCTGGACCAGGGCATGGTGGCAAGAGTGAAGGAAGGGCCAACCTGGG
 AGCCAGGATGGGCTTCCAGCCTCTGCTGCAGGCCACTGGAGCACTTGAAGTCAAGGGCCCTCCAGG
 AGTACCTGGGAAGCCTATATTTCTGCGGTTTCTTCAGTGAAGTGGTTGAAGCCAGCCCATAGGTGA
 AGACTGGTTTTGGACTTCAGGGTCTGGGAAGGGGGCTTTGGGAAGTGTCCGCTGCCAAATGAAG
 GCGACCGCAAGATGTACGCTTGAAGAAGCTGAACAAGAAGCGGCTGAAGAAGGGAAGGGGTACCAGG
 GCGCCATCGTTGAGAAGAGGATTCTAGCTAAAGTACACAGCAGGTTTCATCGTGTCTCTGGCCTATGCATT
 CGAAACCAAGACCACCTCTGTCTGGTGTGACCATCATGAATGGAGGTGACGTAAGGTACCACATCTAC
 AATGTGGATGAGGAGAACCCCGGCTTCCGGAGCCACGAGCCATCTACTACACAGCACAGATCATCAGTG
 GCCTGGAGCACCTGCATCAGAGACGCATTGTCTACCGTGACCTCAAGCCAGAGAACGTGCTGTGGACAA
 CGATGGCAACATCCGAATTTCTGACCTTGGACTGGCCGTCGAGTTGAAGGAAGGGCAGAATAAGACCAAG
 GGCTATGCAGGGACCCAGGTTTCATGGCCCCGAGCTCCTGCGAGGCGAAGAGTACGACTTCTCTGTGG
 ACTACTTTGCCCTGGGGTCCACATTGTACGAGATGATCGCAGCCAGAGGACCCCTCCGAGCCCGAGGAGA
 GAAGGTGGAGAACAAGGAGCTTAAACAGCGCATCATCTCAGAGCCGTGAAGTACCCAGAGAAGTTCAGC
 CAGGCCAGCAAGACTTCTGTGAGCAGCTGTTAGAGAAGGACCCGGAGAAGCGCCTGGGTTTCCGGGATG
 GAACCTGTGACGCCCTAAGGGCGAATGTCTCTCAAAGATATCAGCTGGAGACAGCTCGAAGCCGGAAT
 GCTCATCCCTCCGTTTCATCCAGACTCTAGGACTGTCTATGCCAAGAACATTCAGGATGTGGGTGCCTTT
 TCCACAGTCAAGGGTGTGGTTTTGACAAAGCAGACACAGAATTCTTCCAAGAATTCGCCTCCGGCAACT
 GCTCCATTCCCTGGCAGGAGGATGATTGAGACTGGGTTCTTCGGGGACCTCAAGTGTGGCGCCGAGA
 CGGTCAAATGCCCGATGACATGAAGGAATCACCGTGGAGGAGCCAGCCCTACAGCCAAATCAGGGATG
 TGTCATCTCTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031096
- Insert Size:** 1695 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_031096.1](#), [NP_112358.1](#)

RefSeq Size: 2157 bp

RefSeq ORF: 1695 bp

Locus ID: 81760

UniProt ID: [Q63651](#)

Cytogenetics: 16q12.5

Gene Summary: catalyzes the phosphorylation of rhodopsin to form phosphorhodopsin; plays a role in phototransduction [RGD, Feb 2006]