

Product datasheet for **RR200761**

Grk1 (NM_031096) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR200761 representing NM_031096
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTTTCGGTCTTGGAAACCGTGGTGGCCAACCTCGCCTTCATTGCGGCCCGAGGCAGCTTTGACG
 GAAGCAGCACCCCTCTTCCCGAGACAAGAAGTATCTGGCCAAGCTCCGGTTGCCCCACTGTCCAAGTG
 TGAGGGTCTCCGTGACAGCATCAGCCTAGAGTTTGACAACCTGTGCTCGGAGCAGCCATTGGCAAGAGG
 CTCTTCCAGCAGTTCTGAAGACAGACGAGAGGCATGTGCCGGCTCTGGAGCTCTGGAAGGACATCGAGG
 ACTATGACACTGCCGATGACGACCTACGGCCACAGAAGGCTCAGGCCATCCTGGCTGAGTACCTGGACCC
 ACAGGGCACACTTTCTGCAACTTCTGGACCAGGGCATGGTGGCAAGAGTGAAGGAAGGGCCAACCTGGG
 AGCCAGGATGGGCTTCCAGCCTCTGCTGCAGGCCACTGGAGCACTTGAAGTCAAGGGCCCTCCAGG
 AGTACCTGGGAAGCCTATATTTCTGCGGTTTCTTCACTGGAAGTGGTTGAAGCCAGCCCATAGTGGA
 AGACTGGTTTTGGACTTCAAGGCTCTGGGAAGGGGGCTTTGGGAAGTGTCCGCTGCCAAATGAAG
 GCGACCGCAAGATGTACGCTTGAAGAAGCTGAACAAGAAGCGGCTGAAGAAGGGAAGGGGTACCAGG
 GCGCCATCGTTGAGAAGAGGATTCTAGCTAAAGTACACAGCAGGTTTCATCGTGTCTCTGGCCTATGCATT
 CGAAACCAAGACCGACTCTGTCTGGTGTGACCATCATGAATGGAGGTGACGTAAGGTACCACATCTAC
 AATGTGGATGAGGAGAACCCCGCTTCCGGAGCCACGAGCCATCTACTACACAGCACAGATCATCAGTG
 GCCTGGAGCACCTGCATCAGAGACGATTGTCTACCGTACCTCAAGCCAGAGAACGTGTCTGGACAA
 CGATGGCAACATCCGAATTTCTGACCTTGGACTGGCCGTCGAGTTGAAGGAAGGGCAGAATAAGACCAAG
 GGCTATGCAGGGACCCAGGTTTCATGGCCCCGAGCTCCTGCGAGGCGAAGAGTACGACTTCTCTGTGG
 ACTACTTTGCCCTGGGGTACATTGTACGAGATGATCGCAGCCAGAGGACCCCTCCGAGCCGAGGAGA
 GAAGGTGGAGAACAAGGAGCTTAAACAGCGCATCATCTCAGAGCCGTGAAGTACCCAGAGAAGTTCAGC
 CAGGCCAGCAAGACTTCTGTGAGCAGCTGTAGAGAAGGACCCGGAGAAGCGCCTGGGTTTCCGGGATG
 GAACCTGTGACGCCCTAAGGGCGAATGTCTCTCAAAGATATCAGCTGGAGACAGCTCGAAGCCGGAAT
 GCTCATCCCTCCGTTTATCCAGACTCTAGGACTGTCTATGCCAAGAACATTCAGGATGTGGGTGCCTTT
 TCCACAGTCAAGGGTGTGGTTTTGACAAAGCAGACAGAAATCTTCCAAGAATTCGCCTCCGGCAACT
 GCTCCATTCCCTGGCAGGAGGATGATTGAGACTGGGTTCTTCGGGGACCTCAACGTGTGGCGCCAGA
 CGGTCAAATGCCCGATGACATGAAGGAATCACCGTGGAGGAGCCAGCCCTACAGCCAAATCAGGGATG
 TGTCATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200761 representing NM_031096
 Red=Cloning site Green=Tags(s)

MDFGSLETVVANSAFIAARGSFDGSSTPSSRDKKYLAKLRLPPLSKCEGLRDSISLEFDNLCSEQPIGKR
 LFQQFLKTDERHVPALELWKDIEDYDTADDDLRPQKAQAIIAEYLDPQGTLCNFLLDQGMVARVKEGPTG
 SQDGLFQPLLQATLEHLSQGPFEYLGSLYFLRFLQWKWLEAQPIGEDWFLDFRVLGKGGFGEVSACQMK
 ATGKMYACKKLNKRLKRRKGYQGAIVEKRILAKVHSRIVSLAYAFETKTDLCLVMTIMNGGDVRYHIY
 NVDEENPGFPEPRAIYYTAQIIISGLEHLHQRRIVYRDLKPEVLLDNDGNIRISDLGLAVELKEGQNKTK
 GYAGTPGFMAPELLRGEYDFSDYFALGVTLYEMIAARGPFRARGEKVENKELKQRIISEPVKYPEKFS
 QASKDFCEQLLEKDPEKRLGFRDGTCDALRANVLFKDISWRQLEAGMLIPPFIPDSRTVYAKNIQDVGAF
 STVKGVVFDKADTEFFQEFASGNCSIPWQEEMIETGFFGDLNVWRPDGQMPDDMKGITVEEAAPTAKSGM
 CLIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_031096

ORF Size: 1692 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

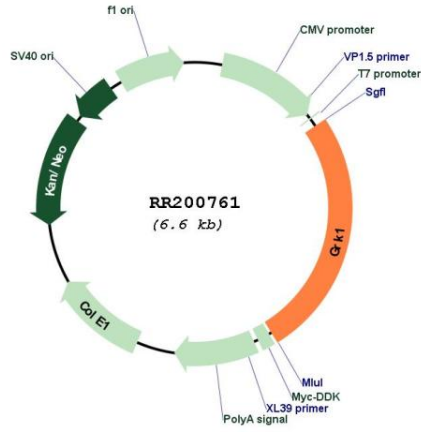
UniProt ID: [Q63651](#)

Cytogenetics: 16q12.5

MW: 63.8 kDa

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

Product images:



Circular map for RR200761