

## Product datasheet for **MR230504**

### Grk6 (NM\_001286063) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001286063) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk6
Synonyms:	Gprk6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230504 representing NM\_001286063  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCAGTTC~~CCCC~~ATATCAGCCAGTGTGAGGAGCTTCGACTCAGCCTTGAGCGTGACTACCACAGCC  
 TATGTGAGCGCCAGCCCATTGGGCGCCTGTTATTTTCGTGAGTTCTGTGCTACGAGACCTGAGCTGACCCG  
 GTGTA~~CTGC~~TTCTGGATGGGGTGTCTGAATATGAGGTGACCCCTGATGAGAAGCGGAAAGCATGTGGG  
 CGCCGACTAATGCAGAACTTTCTGAGCCACACGGGCTCTGACCTCATCCCTGAAGTTCACGGCAGCTGG  
 TGAGTAACTGTGCCAGCGGCTAGAGCAGGGACCTGCAAAGACCTTTCCAGGAGCTGACCCGGCTGAC  
 CCACGAGTACCTGAGCACGGCCCTTTTGGCGACTACCTCGACAGCATCTACTTCAACCGTTTTCTGCAG  
 TGGAAAGTGGTGGAAAGGCAACCAAGTACCAAAAAACACCTTCAGGCAGTACCGAGTCTGGGCAAAGGTG  
 GCTTTGGGAGGTATGTGCTGCCAGGTGCGGGCAACAGGCAAGATGTACGCATGCAAGAACTGGAAAA  
 GAAGCGGATAAAGAAGCGAAAGGGGAGGCCATGGCTCTCAACGAGAAACAGATCTTGGAGAAAGTGAAC  
 AGTAGGTTTGTAGTGAGCTTAGCCTACGCTATGAGACCAAGGATGCACTGTGCCTGGTGTGACATTGA  
 TGAATGGAGGTGACCTAAAGTTCACATCTACCACATGGGCCAGGCTGGCTTTCCTGAAGCACGTGCTGT  
 CTTCTATGCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACCGGGAACGCATTGTGTACAGGGATCTA  
 AAGCCAGAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACTGGCCGTGCATG  
 TGCTGAGGGCCAGACCATCAAAGGCCGTGTGGGCACTGTGGGCTACATGGCTCCAGAGGTGGTGAAGAA  
 TGAGCGCTACACGTTCACTCTGACTGGTGGGCGCTAGGCTGCCTCCTGTACGAGATGATCGCAGGTGAG  
 TCGCCCTTCCAGCAGAGGAAGAAGAAGATAAAGCGCGAAGAGGTGGAGCGGCTGGTCAAGGAAGTGGCCG  
 AGGAGTACACAGACCGCTTTTCCCTCACAGGCGCGCTCACTCTGTCTCAGCTTCTTAGCAAGGACCTGC  
 TGAGCGCCTGGGGTGTCTGTGGAGGTGGCGCCCGTGGAGTAAAGGAGCACCCCTTTTCAAGAACTGAAT  
 TCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCCTGATCCCCAGGCTATTTATTGAAGG  
 ATGTCCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCACAGACCAAGACTTCTA  
 CCAGAAGTTTGCCACAGGCAGTGTGCCATCCCCTGGCAGAATGAGATGGTGGAGACCGAGTGTCCAG  
 GAACTCAATGTCTTTGGGCTGGATGGGTCTGTTCCCCAGACCTGGACTGGAAGGGCCAGCCCACTGCAC  
 CCCCCAAGAGGGATTGTACAGAGACTTTCAGTCGCCAAAGGATTGCTGTGGGAACTGCACGGACAGT  
 GAGGAAGAGCTCCCCACCGCCTTAGCCCCAGGCCAGGCCCCACCGCGGTTGGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230504 representing NM\_001286063  
 Red=Cloning site Green=Tags(s)

MLQFPHISQCEELRSLERDYHSLCERQPIGRLLFREFCATRPELTRCTAFLDGVSEYEVTPDEKRAKCG  
 RRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPKDLFQELTRLTHEYLSTAPFADYLDLSIYFNRFQ  
 WKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGKMYACKKLEKKRIKRRKGEAMALNEKQILEKVN  
 SRFVVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMQAGFPEARAVFYAAEICCGLEDLHRERIVYRDL  
 KPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTVGYMAPEVVRNERYTFSPDWWALGCLLYEMIAGQ  
 SPFQQRKKKIKREEVERLVKEVAEEYDRFSSQARSLCSQLL SKDPAERL GCRGGGAREVKEHPLFKKLN  
 FKRLGAGMLEPPFKPDPQAIYCKDVL DIEQFSTVKGV DLEPTDQDFYQKFATGSVSI PWQNMVETE CFQ  
 ELNVFGLDGSVPPDL DWKQPTAPPKGLLQRLF SRQRIAVGTAATVRKSSPPASSPQAEAPTGGWR

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001286063

**ORF Size:** 1671 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\\_001286063.1](#), [NP\\_001272992.1](#)

**RefSeq Size:** 2996 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 26385

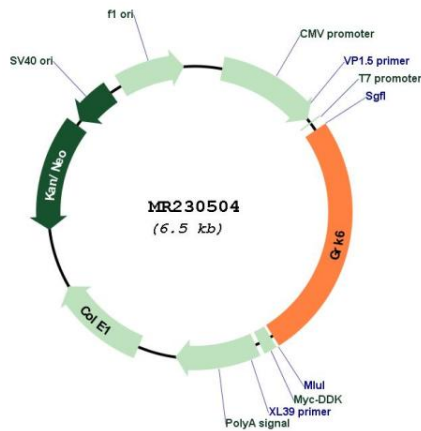
**UniProt ID:** [O70293](#)

**Cytogenetics:** 13 30.06 cM

**MW:** 64 kDa

**Gene Summary:** Specifically phosphorylates the activated forms of G protein-coupled receptors. Such receptor phosphorylation initiates beta-arrestin-mediated receptor desensitization, internalization, and signaling events leading to their desensitization. Seems to be involved in the desensitization of D2-like dopamine receptors in striatum and chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis (By similarity). Phosphorylates rhodopsin (RHO) (in vitro) and a non G-protein-coupled receptor, LRP6 during Wnt signaling (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR230504