

Product datasheet for **MR220063**

Grk6 (NM_001038018) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001038018) 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:

>MR220063 representing NM_001038018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCCGGAAGGTGGTGGCGGAATCGCA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCGCCCATATCAGCCAGTGTGAGGAGCTTCGACT
 CAGCCTTGAGCGTACTACCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAATTTCTGAGCCACACGGTCTGACCT
 CATCCCTGAAGTTCACGGCAGCTGGTGTGAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGTACCCACGAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAAGGCAACCAGTGACAAAAACACCTTCAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTATGTGCCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTACGCATGCAAGAACTGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACG
 AGAAACAGATCTTGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCCTATGAGACCAAGGA
 TGCACTGTGCCTGGTGTGACATTGATGAATGGAGGTGACCTAAAGTCCACATCTACCACATGGGCCAG
 GCTGGCTTCTGAAGCAGTGTCTTCTATGCTGTGAGATCTGCTGTGGCCTGGAAGACCTGCACC
 GGGAACGCATTGTGTACAGGGATCTAAAGCCAGAGAATACCTTCTGGATGACCATGGCCACATTCGGAT
 CTCGGACTGGGACTGGCCGTGCATGTGCCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGCC
 TACATGGCTCCAGAGTGGTGAAGTGAAGTACAGCTACACGTTTCACTGCTGCTGGTGGGCGCTAGGCTGCC
 TCCTGTACGAGATGATCGCAGTCACTGCCTTCCAGCAGAGGAAGAAGAAGATAAAGCGCAAGAGGT
 GGAGCGGCTGGTCAAGGAAGTGGCCGAGGAGTACACAGACCGCTTTTCTCACAGGCGCGCTCACTGT
 TCTCAGCTTCTTAGCAAGGACCTGCTGAGCGCCTGGGTGTCTGGAGGTGGCGCCGCTGAGGTAAGG
 AGCACCCCTTTTCAAGAACTGAATTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCC
 TGATCCCCAGGCTATTTATTGAAGGATGTCTGGACATTGAACAGTTCTTACAGTTAAAGGTGTGGAT
 CTGGAGCCACAGACCAAGACTTCTACCAGAAGTTTCCACAGGCAGTGTGTCCATCCCCTGGCAGAAATG
 AGATGGTGGAGACCGAGTCTCCAGGAAGTCAATGTCTTTGGGCTGGATGGGTCTGTCCCCAGACCT
 GGACTGGAAGGGCCAGCCACTGCACCCCAAGAAGGGATTGCTACAGAGACTTTCAGTCGCCAAGG
 ATTGCTGTGGAACTGCAGCGACAGTGAAGAAGAGCTCCCAACCGCCTTAGCCCCAGGCCGAGGCC
 CCACCGCGGTTGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220063 representing NM_001038018
 Red=Cloning site Green=Tags(s)

MELENIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRLSLERDYHSLCERQPIGRLLFREF
 CATRPEL TRCTAFLDGVSEYEVTPDEKRKACGRRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD
 LFQELTRLTHEYLSTAPFADYLDISYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKKLEKKRIKKRGEAMALNEKQILEKVNRSFVVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMGQ
 AGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILDDHGHIRISDLGLAVHVPEGQTIKGRVGTVG
 YMAPEVVRNERYTFSPDWWALGCLLYEMIAQSPFQQRKKIKREEVERLVKEVAEEYDRFSSQARS LC
 SQLLSKDP AERL GCRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVL D IEQFSTVKGVD
 LEPTDQDFYQKFATGSVSI PWQNMVETECFQELNVFGLDGSVPPDL DWKQPTAPPKGLLQRLF SRQ
 IAVGTAATVRKSSPPASSPQAEAPTGGWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001038018

ORF Size: 1767 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_001038018.4](#)

RefSeq Size: 3013 bp

RefSeq ORF: 1770 bp

Locus ID: 26385

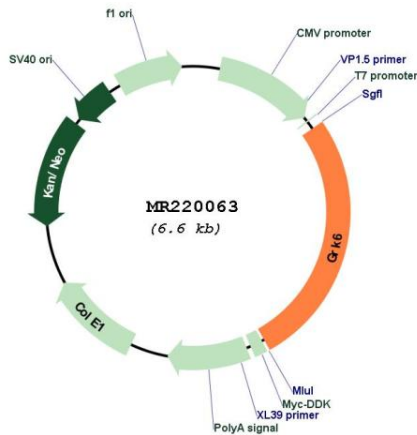
UniProt ID: [O70293](#)

Cytogenetics: 13 30.06 cM

MW: 67.6 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 MR220063