

## Product datasheet for **MG220063**

### Grk6 (NM\_001038018) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001038018) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grk6
Synonyms:	Gprk6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220063 representing NM\_001038018  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCCGGAAGGTGGTGGCGGAATCGCA  
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCCTCCATATCAGCCAGTGTGAGGAGCTTCGACT  
 CAGCCTTGAGCGTACTACCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC  
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC  
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAACTTTCTGAGCCACACGGGTCTGACCT  
 CATCCCTGAAGTTCACGGCAGCTGGTGTGAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC  
 CTCTCCAGGAGCTGACCCGGCTGACCCACAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA  
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAAGGCAACCAGTGACAAAAACACCTTCAG  
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTATGTGCCTGCCAGGTGCGGGCAACAGGCAAG  
 ATGTACGCATGCAAGAACTGAAAAGAAGCGGATAAAGAAGCGAAAGGGGAGGCCATGGCTCTCAACG  
 AGAAACAGATCTTGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCCTATGAGACCAAGGA  
 TGCACTGTGCCTGGTGTGACATTGATGAATGGAGGTGACCTAAAGTCCACATCTACCACATGGGCCAG  
 GCTGGCTTTCCTGAAGCAGTGTCTTCTATGTCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACC  
 GGAACGCATTGTGTACAGGGATCTAAAGCCAGAGAATACCTTCTGGATGACCATGGCCACATTCGGAT  
 CTCGGACTGGGACTGGCCGTGCATGTGCCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGC  
 TACATGGCTCCAGAGTGGTGAAGTACAGCGTACACGTTTCACTGCTGAGTGGTGGGCGCTAGGCTGCC  
 TCCTGTACGAGATGATCGCAGTCACTGCCTTCCAGCAGAGGAAGAAGAAGATAAAGCGCAAGAGGT  
 GGAGCGGCTGGTCAAGGAAGTGGCCGAGGAGTACACAGACCGCTTTTCTCACAGGCGCGCTCACTGT  
 TCTCAGCTTCTTAGCAAGGACCCTGCTGAGCGCCTGGGTGTCTGGAGGTGGCGCCCTGAGGTAAGG  
 AGCACCCCTTTTCAAGAACTGAATTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCC  
 TGATCCCCAGGCTATTTATTGCAAGGATGTCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGAT  
 CTGGAGCCACAGACCAAGACTTCTACCAGAAGTTTCCACAGGCAGTGTGTCCATCCCCGGCAGAAATG  
 AGATGGTGGAGACCGAGTCTCCAGGAAGTCAATGTCTTTGGGCTGGATGGGTCTTCCCCCAGACCT  
 GGACTGGAAGGGCCAGCCACTGCACCCCAAGAAGGGATTGCTACAGAGACTTTCAGTCGCCAAAGG  
 ATTGCTGTGGAACTGCAGCGACAGTGAAGAAGGCTCCCAACCGCCTTAGCCCCAGGCCGAGGCC  
 CCACCGCGGTTGGCGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG220063 representing NM\_001038018  
 Red=Cloning site Green=Tags(s)

MELENIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRSLERDYHSLCERQPIGRLLFREF  
 CATRPELTRCTAFLDGVSEYVTPDEKRKACGRRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD  
 LFQELTRLTHEYLSTAPFADYLDIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGK  
 MYACKKLEKKRIKKRGEAMALNEKQILEKVNRFVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMGQ  
 AGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILDDHGHIRISDLGLAVHVPEGQTIKGRVGTG  
 YMAPEVVRNERYTFSPDWWALGCLLYEMIAGQSPFQQRKKIKREEVERLVKEVAEYTRDFSSQARS  
 SLLSKDPAERLGRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLIDIEQFSTVKGV  
 LEPTDQDFYQKFATGSVSIWQWQEMVETECFQELNVFGLDGSVPPDLWDKQPTAPPKGLLQRLF  
 SRQR IAVGTAATVRKSSPPASSPQAEAPTGGWR

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-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

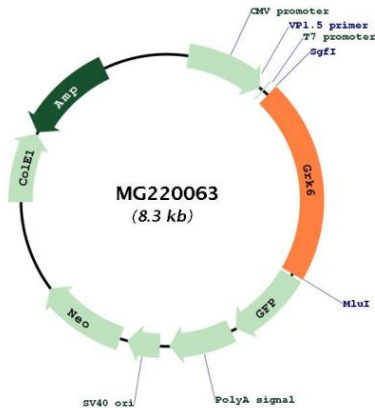
**Locus ID:** 26385

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

**Cytogenetics:** 13 30.06 cM

**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 MG220063