

Product datasheet for **MG220059**

Grk6 (NM_011938) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_011938) 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:

>MG220059 representing NM_011938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTACTCAAGGCCCGGAAGGTGGTGGCGGAATCGCA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCCTCCATATCAGCCAGTGTGAGGAGCTTCGACT
 CAGCCTTGAGCGTGACTIONCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAACTTTCTGAGCCACACGGTCTGACCT
 CATCCCTGAAGTTCACGGCAGCTGGTGAAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGTGAACACAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAAGGCAACCAGTGACAAAAACACCTTCAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGGAGGTATGTGCCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTACGCATGCAAGAACTGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACG
 AGAAACAGATCTTGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCCTATGAGACCAAGGA
 TGCACTGTGCCTGGTGTGACATTGATGAATGGAGGTGACCTAAAGTTCACATCTACCACATGGGCCAG
 GCTGGCTTTCTGAAGCAGTGTCTTCTATGTCTGAGTCTGCTGTGGCCTGGAAGACCTGCACC
 GGGAACGCATTGTGTACAGGGATCTAAAGCCAGAGAATACCTTCTGGATGACCATGGCCACATTCGGAT
 CTCGGACTGGGACTGGCCGTGCATGTGCCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGGC
 TACATGGCTCCAGAGTGGTGAAGTGAAGTACAGCTACACGTTTCACTGCTGACTGGTGGGCGCTAGGCTGCC
 TCCTGTACGAGATGATCGCAGTCACTCGCCCTCCAGCAGAGGAAGAAGAAGATAAAGCGCGAAGAGGT
 GGAGCGGCTGGTCAAGGAAGTGGCCGAGGAGTACACAGACCGCTTTTCTCACAGGCGCGCTCACTGT
 TCTCAGCTTCTTAGCAAGACCCTGCTGAGCGCCTGGGTGTCTGGAGGTGGCGCCCTGAGGTAAGG
 AGCACCCCTTTTCAAGAACTGAATTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCC
 TGATCCCCAGGCTATTTATTGAAGGATGTCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGAT
 CTGGAGCCACAGACCAAGACTTCTACCAGAAGTTTCCACAGGCAGTGTGTCCATCCCCGGCAGAAATG
 AGATGGTGGAGACCGAGTCTCCAGGAAGTCAATGTCTTTGGGCTGGATGGGTCTTCCCCCAGACCT
 GGACTGGAAGGGCCAGCCACTGCACCCCAAGAAGGGATTGCTACAGAGACTTTCAGTCGCCAAAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220059 representing NM_011938
 Red=Cloning site Green=Tags(s)

MELINIVANTVLLKAREGGGNRKGSKKWRQMLQFPHISQCEELRLSLERDYHSLCERQPIGRLLFREF
 CATRPELTRCTAFLDGVSEYEVTPDEKRAKGRRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD
 LFQELTRLTHEYLSTAPFADYLDLSIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCAQVRATGK
 MYACKKLEKKRIKRRKGEAMALNEKQILEKVNRFVVSLEYAYETKDALCLVLTLMNGGDLKFHIYHMGQ
 AGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTG
 YMAPEVVRNERYTFSPDWWALGCLLYEMIAGQSPFQQRKKIKREEVERLVKEVAEEYDRFSSQARSLC
 SQLLSKDPARLGRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLIDIEQFSTVKGV
 LEPTDQDFYQKFATGSVSIWQWQEMVETECFQELNVFGLDGSVPPDLDWKGQPTAPPKGLLQRLF SRQR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011938

ORF Size: 1680 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_011938.5](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1683 bp

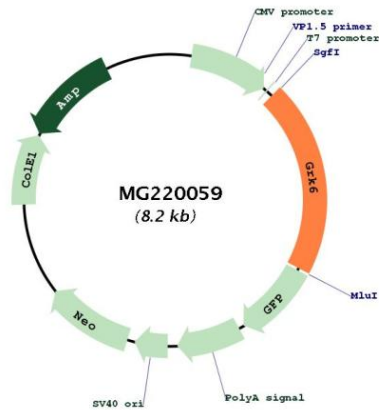
Locus ID: 26385

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 MG220059