

## Product datasheet for **MG222570**

### Grk3 (NM\_177078) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk3 (NM_177078) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grk3
Synonyms:	4833444A01Rik; Adrbk-2; Adrbk2; AI851927; AW551196; Bark-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG222570 representing NM\_177078  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGACCTGGAGCCGTGCTGGCCGACGTCAGCTACCTGATGGCCATGGAGAAGAGCAAGACGGCGC  
CGGCCGCGCGCCAGCAAGAAGGTCGTCTGCCGGAGCCAGTATCCGGAGTGTGATGCAGAGGTATCT  
GGCAGAGAGAAAACGAAATAACCTTTGACAAGATTTTCAATCAGAAAATCGGCTTCTACTATTTAAAGAC  
TTCTGCTTGAATGAAATTGGGAAGCAGTGCCTCAGGTGAAATTTTATGAAGAGATAAAAGAATATGAGA  
AGCTGGACAACGAAGAGGATAGGCTACGCCGAGCCGGCAGATGTACGACGCCTACATCATGAGGGAGCT  
CCTATCCAGCACACCAATTCTCAAAGCAAGCTGTAGAACATGTCCAGAGCCATCTCTCCAAGAAAACAG  
GTGACGGCTACACTTTTCCAGCCATACATAGAAGAAATCTGTGAAAGCCTTCGTGGGGATATTTTCCAAA  
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CATGAACGACTTCAGTGTGCACAGGATCATCGGCCGAGGAGGTTTGGGGAAGTTTATGGCTGCAGGAAA  
GCAGACACCGGTAAAATGTATGCCATGAAAGTGCTTAGACAAGAAAAGGGTGAAGATGAAGCAGGGGGAGA  
CTCTGGCTTTGAACGAGAGGATCATGCTGTCTCTCGTTAGCACTGGGGATTGTCCCTTTATTGTCTGCAT  
GACCTACGCCCTTCCACACGCCGGACAACTCTGCTTTCATCCTGGACCTGATGAACGGGGGCGACATGCAC  
TACCATCTCTCTCAACACGGGGTGTCTTCTGAGAAGGAGATGCGGTTTTATGCCAGCGAGATCATCTGG  
GCCTCGAGCACATGCACACCTGCTTCGTAGTCTACAGAGACCTGAAGCCTGCGAACATCTCTCTAGATGA  
ATATGGGCACGTGAGGATATCGGATCTCGGCCTTGCTGCGATTTCTCCAAAAGAAGCCTCATGCCAGC  
GTGGGCACCCATGGGTACATGGCTCCCGAGGTGTGCAGAAGGGAACGTGCTATGACAGCAGCGCCGCT  
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CACGAGAGTTGAAGGAGCACATCTTCTTCAAGGCATTGACTGGCAGCATGTGTACTTACGGAAGTACCC  
GCCACCCCTAATCCCTCTCGGGGAGAGGTCAACGCTGCAGATGCCTTCGATATCGGCTCCTTCGATGAG  
GAAGACACCAAAGGCATTAAGCTGTTGGACTGTGACCAGGACCTCTATAAGAACTCCCCTGGTGTATCT  
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GGCCAGGAGGAAGGCTAAAATAAGCAACTTGGTCAAGAGGAAGATTACGCTATGGGGAAGGACTGCATC  
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TCCCAACAGACTGGAGTGGAGAGGAGAGGGCGAGTCTCGGCAAAGTCTACTGACCATGGAACAGATCAT  
GTCTGTGGAGGAGACCCAGATTAAGACAGAAAGTGCATCTTACTCAGGATAAAGGGAGGGAAGCAATTT  
GTCTTGAATGTGAGAGTGACCCCGAGTTTGCACAGTGGCTGAAGGAGCTGACCTGCACCTTCAATGAGG  
CCCAGAGACTGTGCGCGTGCCCCAAATTCCTCAACAAACCAGGGCCGCCATCTGGAGTTCTCCAA  
GCCACCACTGTGTACAGAAATAGCAGCGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222570 representing NM\_177078  
 Red=Cloning site Green=Tags(s)

MADLEAVLADVSYLMAMEKSKTAPAARASKKVVLPEPSIRSVMQRYLAERNEITFDKIFNQKIGFLLFKD  
 FCLNEIGEAVPQVKFYEEIKEYEKLDNEEDRLRRSRQMYDAYIMRELLSSTHQFSKQAVEHVQSHLSKKQ  
 VTATLFPYIEEICESLRGDI FQKFMESDKFTRFCQWKNVELNIHLSMNDFSVHRIIGRGGFGEVYGCRK  
 ADTGMYAMKCLDKKRVKMKQGETLALNERIMLSLVSTGDPCFIVCMTYAFHTPDKLCFILDLMNGGDMH  
 YHLSQHGVSSEKEMRFYASEIILGLEMHMTCFVVYRDLKPANILLDEYGHVRISDLGLACDFSKKKPHAS  
 VGTHGYMAPEVLQKGTCTYDSSADWFSLGCMLFKLLRGHSPFRQHKTKDKHEIDRMTLTVNVQLPDAFSPE  
 LRSLLLEGLLQRDVSQRLGCGGGGARELKEHIFFKGIDWQHVVYLRKYPPPLIPRGEVNAADAFDIGSFDE  
 EDTKGIKLLDCDQDL YKNFPLVISERWQQEVVETIYDAVNADTDKIEARRKAKNKQLGQEEYAMGKDCI  
 MHGYMLKLGPNFLTQWQRRYFYLFPNRLWRGEGESRQSLTMEQIMSVEETQIKDRKCILLRIKGGKQF  
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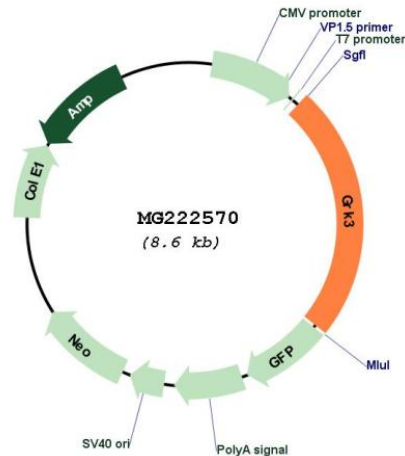
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_177078

**ORF Size:** 2064 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\\_177078.4](#), [NP\\_796052.2](#)

**RefSeq Size:** 6554 bp

RefSeq ORF: 2067 bp

Locus ID: 320129

UniProt ID: Q3UYH7

Cytogenetics: 5 55.29 cM

Gene Summary: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors.[UniProtKB/Swiss-Prot Function]