

## Product datasheet for **MR222570**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk3 (NM_177078) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk3
Synonyms:	4833444A01Rik; Adrbk-2; Adrbk2; AI851927; AW551196; Bark-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222570 representing NM\_177078  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGACCTGGAGCCGTGCTGGCCGACGTCAGCTACCTGATGGCCATGGAGAAGAGCAAGACGGCGC  
 CGGCCGCGCGCCAGCAAGAAGGTCGTCTGCCGGAGCCAGTATCCGGAGTGTGATGCAGAGGTATCT  
 GGCAGAGAGAAAACGAAATAACCTTTGACAAGATTTTCAATCAGAAAATCGGCTTCTACTATTTAAAGAC  
 TTCTGCTTGAATGAAATTGGGAAGCAGTGCCTCAGGTGAAATTTTATGAAGAGATAAAAGAATATGAGA  
 AGCTGGACAACGAAGAGGATAGGCTACGCCGAGCCGGCAGATGTACGACGCCTACATCATGAGGGAGCT  
 CCTATCCAGCACACCAATTCTCAAAGCAAGCTGTAGAACATGTCCAGAGCCATCTCTCCAAGAAAACAG  
 GTGACGGCTACACTTTTCCAGCCATACATAGAAGAAATCTGTGAAAGCCTTCGTGGGGATATTTTCCAAA  
 AGTTTATGGAAAGCGATAAATTCAGTAGATTCTGTGAGTGAAGAAGCAGTGGAGTTGAATATTCACCTGAG  
 CATGAACGACTTCAGTGTGCACAGGATCATCGGCCGAGGAGGTTTGGGGAAGTTTATGGCTGCAGGAAA  
 GCAGACACCGGTAAAATGTATGCCATGAAGTGCTTAGACAAGAAAAGGGTGAAGATGAAGCAGGGGGAGA  
 CTCTGGCTTTGAACGAGAGGATCATGCTGTCTCTCGTTAGCACTGGGGATTGTCCCTTTATTGTCTGCAT  
 GACCTACGCCCTTCCACACGCCGGACAACTCTGCTTTCATCCTGGACCTGATGAACGGGGGCGACATGCAC  
 TACCATCTCTCTCAACACGGGGTGTCTTCTGAGAAGGAGATGCGGTTTTATGCCAGCGAGATCATCTGG  
 GCCTCGAGCACATGCACACCTGCTTCGTAGTCTACAGAGACCTGAAGCCTGCGAACATCTCCTAGATGA  
 ATATGGGCACGTGAGGATATCGGATCTCGGCCTTGCTGCGATTTCTCCAAAAGAAGCCTCATGCCAGC  
 GTGGGCACCCATGGGTACATGGCTCCCGAGGTGTTGCAGAAGGGAACGTGCTATGACAGCAGCCCGCA  
 GTTCTCCCTGGGCTGTATGCTCTTCAAGCTTCTGCGGGGCCACAGCCCTTCAGGCAGCATAAAACCAA  
 AGACAAGCATGAGATAGACCGAATGACCCGTGACCGTGAACGTGCAGCTTCCAGATGCCTTCTCCCTGAG  
 CTGAGGTCCTCTTAGAGGGTTTGTCCAGCGGACGTGAGCCAGCGGCTGGGCTGCGGAGGAGGAGGGG  
 CACGAGAGTTGAAGGAGCACATCTTCTCAAGGCATTGACTGGCAGCATGTGTACTTACGGAAGTACCC  
 GCCACCCCTAATCCCTCTCGGGGAGAGGTCAACGCTGCAGATGCCTTCGATATCGGCTCCTTCGATGAG  
 GAAGACACCAAGGCATTAAGCTGTTGGACTGTGACCAGGACCTCTATAAGAACTCCCCTGGTGTATCT  
 CCGAGCGCTGGCAGCAAGAAGTGGTGGAGACCATCTATGACGCCGTCAATGCTGATACTGATAAAATCGA  
 GGCCAGGAGGAAGGCTAAAATAAGCAACTTGGTCAAGAGGAAGATTACGCTATGGGGAAGGACTGCATC  
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 TCCCAACAGACTGGAGTGGAGAGGAGAGGGCGAGTCTCGGCAAAGTCTACTGACCATGGAACAGATCAT  
 GTCTGTGGAGGAGACCCAGATTAAGACAGAAAGTGCATCTTACTCAGGATAAAGGGAGGGAAGCAATTT  
 GTCTTGAATGTGAGAGTGACCCCGAGTTTGCACAGTGGCTGAAGGAGCTGACCTGCACCTTCAATGAGG  
 CCCAGAGACTGTGCGCCGTGCCCCAAATTCCTCAACAAACCAGGGCCGCCATCTGGAGTTCTCAA  
 GCCACCACTGTGTACAGAAATAGCAGCGGCCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222570 representing NM\_177078  
Red=Cloning site Green=Tags(s)

MADLEAVLADVSYLMAMEKSKTAPAARASKKVVLPEPSIRSVMQRYLAERNEITFDKIFNQKIGFLLFKD  
 FCLNEIGEAVPQVKFYEEIKEYEKLDNEEDRLRRSRQMYDAYIMRELLSSTHQFSKQAVEHVQSHLSKKQ  
 VTATLFPYIEEICESLRGDI FQKFMESDKFTRFCQWKNVELNIHLSMNDFSVHRIIGRGGFGEVYGCRC  
 ADTGKMYAMKCLDKKRVKMKQGETLALNERIMLSLVSTGDCPFI VCMTYAFHTPDKLCFILDLMNGGDMH  
 YHLSQHGVSSEKEMRFYASEIILGLEHMHTCFVYRDLK PANILLDEYGHVRI SDLGLACDFSKKKPHAS  
 VGTHGYMAPEVLQKGTCDYSSADWFSLGCMLFKLLRGHSPFRQHKTKDKHEIDRMTLTVNVQLPDAFSPE  
 LRSLLEGLLQRDVSQRLGCGGGGARELKEHIFFKGIDWQHVVYLRKYPPPLIPRGEVNAADAFDIGSFDE  
 EDTKGIKLLDCDQDL YKNFPLV I SERWQQEVVETIYDAVNADTDKIEARRKAKNKQLGQEEDYAMGDCI  
 MHGYMLKLGPNFLTQWQRRYFYLFPNRL EWRGEGESRQSLTMEQIMSVEETQIKDRKCILLRIKGGKQF  
 VLQCESDPEFAQWLKELTCTFNQAQRLLRRAPKFLNKPRAAILEFSKPP LCHRNSSGL

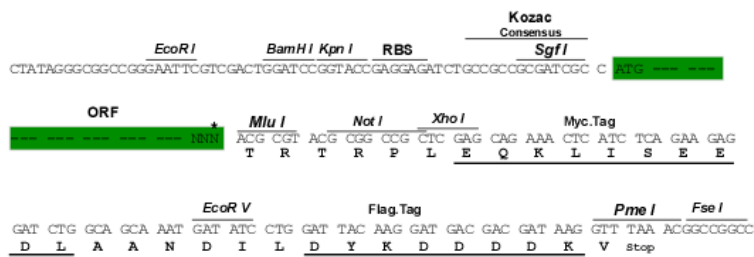
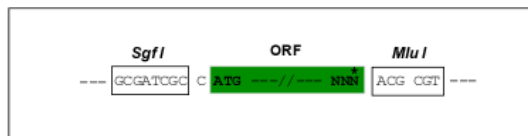
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9009\\_g10.zip](https://cdn.origene.com/chromatograms/mm9009_g10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_177078

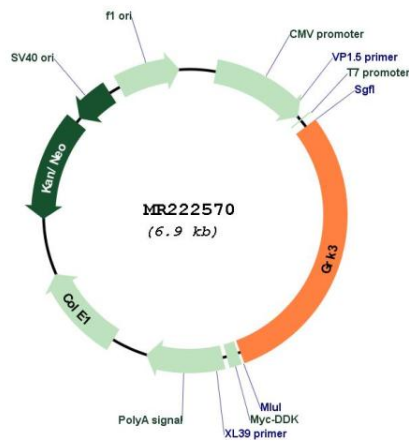
**ORF Size:** 2064 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_177078.4, NP_796052.2</u>
<b>RefSeq Size:</b>	6554 bp
<b>RefSeq ORF:</b>	2067 bp
<b>Locus ID:</b>	320129
<b>UniProt ID:</b>	<u>Q3UYH7</u>
<b>Cytogenetics:</b>	5 55.29 cM
<b>MW:</b>	80.1 kDa
<b>Gene Summary:</b>	Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR222570