

## Product datasheet for **MC228367**

### Grk3 (NM\_001285806) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk3 (NM_001285806) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk3
Synonyms:	4833444A01Rik; Adrbk-2; Adrbk2; AI851927; AW551196; Bark-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228367 representing NM\_001285806  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTACGACGCCTACATCATGAGGGAGCTCCTATCCAGCACACACCAATTCTCAAAGCAAGCTGTAGAAC  
 ATGTCCAGAGCCATCTCTCCAAGAAACAGGTGACGGCTACACTTTTCCAGCCATACATAGAAGAAATCTG  
 TGAAGACCTTCGTGGGATATTTTCCAAGGTTTATGAAAGCGATAAATTCAGTATGCTGTCAGTGG  
 AAGAAGCTGGAGTTGAATATTCACCTGAGCATGAACGACTTCAGTGTGCACAGGATCATCGGCCGAGGAG  
 GGTGGGGAAGTTTATGGCTGCAGGAAAGCAGACACCGGTAATAATGATGCCATGAAGTCTTAGACAA  
 GAAAAGGTGAAGATGAAGCAGGGGAGACTCTGGCTTGAACGAGAGGATCATGCTGTCTCTCGTTAGC  
 ACTGGGATTGTCCTTTATTGTCTGCATGACCTACGCCTTCCACACGCCGACAAACTCTGCTTACATCC  
 TGGACCTGATGAACGGGGCGCATGCACTACCATCTCTCAACACGGGGTGTCTCTGAGAAGGAGAT  
 GCGGTTTTATGCCAGCGAGATCATCTGGCCTCGAGCACATGCACACCTGCTTCGTAGTCTACAGAGAC  
 CTGAAGCCTGCGAACATCCTCCTAGATGAATATGGGCACGTGAGGATATCGGATCTCGGCCCTTGCCCTGCC  
 ATTTCTCCAAAAGAAGCCTCATGCCAGCGTGGGCACCCATGGGTACATGGCTCCCGAGGTGTTGCAGAA  
 GGGAACGTGCTATGACAGCAGCGCCGACTGTTCTCCCTGGGCTGTATGCTCTTCAAGCTTCTGCGGGC  
 CACAGCCCTTCAGGCAGCATAAAACCAAAGACAAGCATGAGATAGACCGAATGACCCTGACCGTGAACG  
 TGCAGCTTCAGATGCCTTCTCCCTGAGCTGAGGTCCCTCTTAGAGGGTTTGCTCCAGCGGGACGTGAG  
 CCAGCGGCTGGCTGCGGAGGAGGGGCACGAGAGTTGAAGGAGCACATCTTCTTCAAGGCATTGAC  
 TGGCAGCATGTACTTACGGAAGTACCGCCACCCCTAATCCCTCCTCGGGGAGAGGTCAACGCTGCAG  
 ATGCCTTCGATATCGGCTCCTTCGATGAGGAAGACACCAAAGGCATTAAGCTGTTGGACTGTGACCAGGA  
 CCTCTATAAGAAGTTCCTACTGGTGTCTCCGAGCGCTGGCAGCAAGAAGTGGTGGAGACCATCTATGAC  
 GCCGTCATGCTGATACTGATAAAATCGAGGCCAGGAGGAAGGCTAAAAATAAGCAACTTGGTCAAGAGG  
 AAGATTACGCTATGGGAAGGACTGCATCATGCACGGGTACATGCTGAAGCTGGGGAACCCCTTTCTCAC  
 ACAGTGGCAAAGACGCTATTTTTACCTGTTCCCAACAGACTGGAGTGGAGAGGAGGGCGAGTCTCGG  
 CAAAGTCTACTGACCATGGAACAGATCATGTCTGTGGAGGAGACCAGATTAAGACAGAAAGTGCATCT  
 TACTCAGGATAAAGGGAGGAAGCAATTTGTCTTGAATGTGAGAGTGACCCCGAGTTTGCACAGTGGCT  
 GAAGGAGCTGACCTGCACCTCAATGAGGCCAGAGACTGCTGCGCCGTGCCCCAAATTCCTCAACAAA  
 CCACGGGCGCCATCCTGGAGTTCTCAAGCCACCACTGTGTACAGAAATAGCAGCGGCCCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001285806
- Insert Size:** 1746 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001285806.1](#), [NP\\_001272735.1](#)

**RefSeq Size:** 6617 bp

**RefSeq ORF:** 1746 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]  
Transcript Variant: This variant (3) uses an alternate splice site in the 5' region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform 3, which is shorter at the N-terminus, compared to isoform 1.