

## Product datasheet for **MC219159**

### Grk4 (NM\_019497) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk4 (NM_019497) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk4
Synonyms:	A830025H08Rik; Gprk2l; Gprk4; GRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219159 representing NM\_019497  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAC**T**CGAGA**A**CTTCGTGGCCAACAATCTGTTGCTGAAGGCCCGTCTAGGATTTAACAAACAGACTG  
 GTCGTAGTAAAAATGGAGAGAGCTCCTGAAGTTTCCCCAGTCAGCATGTGCACTGAATTAAGATGGTC  
 CATCGAAAAGGATTTTAGCAGTCTTTGCGACAAACAGCCAATTGGAAGACTTCTTTTTAGACAATCTGT  
 GATACAAAACCAGATCTAAAAAGGTGCATTGAATCTTGGATGCAGTGGCAGAGTACGAAGTTACCATTG  
 AAGAGGAACAAAGAGAATTTGGACTAGCCATCTCAGTAGATTCTCAAAGAGAAGTCAGAAGTCCCCTT  
 ACCAGAGATACCTCCAGATATTGTGAAAGAGTGTAAATGGAATCTGAAGCAGAATCTCCCTCTCAAAAT  
 GTTTTCGAAGAATGTGCTGGAATTGTCTGTAAGTATTGAGTGAACACCATTTGAAGAATACCAAGAAA  
 GTACCTACTTTAATCGATTTTACAATGGAAATGGCTAGAAAGGGCTCCAGTAACAAAGAACACATTCAG  
 ACAATATAGAGTTCTAGGAAAAGCGGATTTGGAGAGTTTGTGCCTGTCAAGTACGAGCTACAGGAAAA  
 ATGTATGCCTGCAAAAACTAGAAAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCCATGGCTCTGAATG  
 AAAAAAGAATCTTAGAAAAATTGCATAGTAGATTTGTAGTTAGTTTAGCCTACACTTATGAAACCAAGGA  
 TGCTTTGTGTTGGTGCTAACCAATAATGAATGGAGGGATTTGAAGTACCACATTTACAACCTGGGTGAT  
 CCTGGCTTTGAGGAGCCGAGAGCTGTGTTCTATGCTGCAGAGCTGTGCTGTGGCTTGAAGATTTACAGA  
 GGAAAAGAATTGTATACAGAGACCTAAAGCCAGAGAATATCCTCCTTGATGATCATGGACACATCCGAAT  
 TTCAGATCTTGGTCTAGCTATGGAAGTCCAGAAAGGGGAGATGGTACGAGGAAGAGTTGGTACTGTTGGC  
 TACATGGCTCCAGAAATTATCAATCATGAAAAGTATACATTTAGTCTGACTGGTGGGGACTTGGCTGTT  
 TGATATATGAAATGATTGCGGGACATCTCCATTCAGAAAATATAAAGAAAAAGTCAACCGGGAGGAATT  
 GGAAAGAAGAGTGAAGAATGAAACTGAGGAGTACTCTGAGAGGTTTTTCAGAGGATGCCAAGTCCATCTGC  
 AGCATGTTACTCATCAAAGATCCAAGTAAGAGACTGGGCTGCCAGAGGGATGGAGTCTCTGCTGTAAGC  
 AGCACCCAATATTCAAGGATATAAACTTCAGCAGGCTGGAAGCAAATATGTTAGATCCACCTTTCATTCC  
 TGATCCTCAGGCCATTTATTGTAGGAACATCTGGATATTGGGCAGTTCTCTGTGGTGAAGGAGTCAAC  
 CTGGATACCAATGATGAAATCTTCTACGCTGAATTTGCGACAGGGTCTGTCACCATCCCCTGGCAGAATG  
 AGATGATTGAATCTGGATGTTTCAAGGATCTCAATGAAAATGAAGACGATTTGTCATCACTTGAAAAATA  
 CAAGATGTGTTCCCTCCATCTCAGACCAAAGAGAACTTCTTCGCTAGACTCTTCAGAAGAACGGGCTGC  
 CTGAACATTGCCCTCAGTGAGGAGAGGGAGCCAACAGAACAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2585\\_c03.zip](https://cdn.origene.com/chromatograms/ja2585_c03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_019497

**Insert Size:** 1725 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_019497.2](#), [NP\\_062370.2](#)

**RefSeq Size:** 2408 bp

**RefSeq ORF:** 1725 bp

**Locus ID:** 14772

**UniProt ID:** [O70291](#)

**Cytogenetics:** 5 17.91 cM

**Gene Summary:** Specifically phosphorylates the activated forms of G protein-coupled receptors.  
 [UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).