

Product datasheet for **MC228238**

Grk6 (NM_001286065) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001286065) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk6
Synonyms:	Gprk6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228238 representing NM_001286065
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCGGGAAGGTGGTGGCGGAATCGCA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCCTCCATATCAGCCAGTGTGAGGAGCTTCGACT
 CAGCCTTGAGCGTACTACCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAACTTTCTGAGCCACACGGGTCTGACCT
 CATCCCTGAAGTTCACGGCAGCTGGTGTAGTAAGTGTGCCAGCGGTAGAGCAGGGACCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGCTGACCCACAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGGAAAGGCAACCAGTGACCAAAAACACCTTCAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTATGTGCCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTACGCATGCAAGAACTGGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACG
 AGAAACAGATCTTGAGAAAGTGAACAGTAGGTTTGTAGCTGGCTTCTGAAGCACGTGCTGTCTTCTA
 TGCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACCGGGAACGCATTGTGTACAGGGATCTAAAGCCA
 GAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACTGGCCGTGCATGTGCCTG
 AGGGCCAGACCATCAAAGGCCGTGTGGGCACTGTGGGCTACATGGCTCCAGAGGTGGTGAAGGATGAGCG
 CTACACGTTTCACTCTGACTGGTGGGCGCTAGGCTGCCTCCTGTACGAGATGATCGCAGGTGAGTGGCC
 TTCCAGCAGAGGAAGAAGAAGATAAAGCGCAAGAGGTGGAGCGGCTGGTCAAGGAAGTGGCCGAGGAGT
 ACACAGACCGCTTTTCTCACAGGCGGCTCACTCTGTTCTCAGTTCCTTAGCAAGGACCTGCTGAGCG
 CCTGGGGTGTCTGGAGGTGGCGCCGTGAGGTAAGGAGCACCCCTTTTCAAGAACTGAATTTCAAG
 CGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCCTGATCCCGAGGCTATTTATTGCAAGGATGTC
 TGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCACAGACCAAGACTTCTACCAGAA
 GTTTGCCACAGGCAGTGTGTCCATCCCCTGGCAGAATGAGATGGTGGAGACCGAGTGTCTCCAGGAACTC
 AATGTCTTTGGGCTGGATGGGTCTGTTCCCCAGACCTGGACTGGAAGGGCCAGCCACTGCACCCCCCA
 AGAAGGGATTGCTACAGAGACTTTCAGTCGCCAAGATTGCTGTGGAACTGCAGCGACAGTGAAGGAAGA
 GCTCCCAACCGCTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001286065
- Insert Size:** 1629 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:	<ol style="list-style-type: none">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:	<u>NM_001286065.1</u> , <u>NP_001272994.1</u>
RefSeq Size:	2912 bp
RefSeq ORF:	1629 bp
Locus ID:	26385
UniProt ID:	<u>O70293</u>
Cytogenetics:	13 30.06 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (6) uses an alternate in-frame splice site in the central coding region, and uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (f) is shorter and has a distinct C-terminus, compared to isoform a.</p>