

Product datasheet for **MC226860**

Grk6 (NM_001286066) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grk6 (NM_001286066) Mouse Untagged Clone
Tag: Tag Free
Symbol: Grk6
Synonyms: Gprk6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226860 representing NM_001286066
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGGAGGTGACCTAAAGTCCACATCTACCACATGGGCCAGGCTGGCTTTCCTGAAGCACGTGCTG
 TCTTCTATGCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACCGGGAACGATTGTGTACAGGGATCT
 AAAGCCAGAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACTGGCCGTGCAT
 GTGCCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGGCTACATGGCTCCAGAGGTGGTGAGGA
 ATGAGCGCTACACGTTACGTCCTGACTGGTGGGCGCTAGGCTGCCTCCTGTACGAGATGATCGCAGGTCA
 GTCGCCCTTCCAGCAGAGGAAGAAGAAGATAAAGCGCGAAGAGGTGGAGCGGCTGGTCAAGGAAGTGGCC
 GAGGAGTACACAGACCGCTTTTCTCACAGGCGCGCTCACTCTGTTCTCAGCTTCTTAGCAAGGACCCTG
 CTGAGCGCCTGGGGTGTCTGTGGAGGTGGCGCCGTGAGGTAAAGGAGCACCCCTTTTCAAGAACTGAA
 TTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTAAGCCTGATCCCCAGGCTATTTATTGCAAG
 GATGTCTTGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCCACAGACCAAGACTTCT
 ACCAGAAGTTTGCCACAGGCAGTGTGCCATCCCCTGGCAGAATGAGATGGTGGAGCCGAGTGCCTCCA
 GGAATCAATGTCTTTGGGCTGGATGGTCTGTTCCCCCAGACCTGGACTGGAAGGGCCAGCCCCTGCA
 CCCCCAAGAAGGATTGCTACAGAGACTTTCAGTCGCCAAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001286066
Insert Size: 888 bp



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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_001286066.1</u> , <u>NP_001272995.1</u>
RefSeq Size:	2093 bp
RefSeq ORF:	888 bp
Locus ID:	26385
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 (7) has multiple differences compared to variant 1. These differences result in a distinct 5' UTR, 3' UTR, and 3' coding region, and cause translation initiation from a downstream start codon. The encoded isoform (g) has a shorter N-terminus and a distinct and shorter C-terminus, compared to isoform a.</p>