

Product datasheet for **MC228380**

Grk6 (NM_001286064) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001286064) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk6
Synonyms:	Gprk6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228380 representing NM_001286064
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCCGGAAGGTGGTGGCGGAATCGCA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCGCCCATATCAGCCAGTGTGAGGAGCTTCGACT
 CAGCCTTGAGCGTGACTIONCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAACTTTCTGAGCCACACGGTCTGACCT
 CATCCCTGAAGTTCACGGCAGCTGGTGAAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGTGACTIONCGCTGACCCACGAGTACCTGAGCACGGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAGGCAACCAGTGACAAAAACACCTTCAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTGCGGGCAACAGGCAAGATGTACGCATGCAAG
 AAAGTGGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACGAGAAACAGATCTTGG
 AGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCTATGAGACCAAGGATGCACTGTGCCTGGT
 GCTGACATTGATGAATGGAGGTGACCTAAAGTTCACATCTACCACATGGGCCAGGCTGGCTTTCCTGAA
 GCACGTGCTGCTTCTATGCTGCTGAGATCTGCTGTGGCTGGAAGACCTGCACCGGGAACGCATTGTGT
 ACAGGGATCTAAAGCCAGAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACT
 GGCCGTGCATGTGCTGAGGGCCAGACCATCAAGGCCGTGTGGGCACTGTGGCTACATGGCTCCAGAG
 GTGGTGAGGAATGAGCGCTACACGTTTCACTGCTGACTGGTGGGCGCTAGGCTGCCTCTGTACGAGATGA
 TCGCAGGTCAGTCGCCCTCCAGCAGAGGAAGAAGAATAAAGCGCGAAGAGGTGGAGCGGCTGGTCAA
 GGAAGTGGCCGAGGAGTACACAGACCGTTTTCTCACAGGCGGCTCACTCTGTTCTCAGCTTCTTAGC
 AAGGACCTGCTGAGCGCTGGGTGCTGTGGAGTGGCGCCGTGAGGTAAAGGAGCACCCCTTTTCA
 AGAAACTGAATTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCTGATCCCGAGGCTAT
 TTATTGAAGGATGCTCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCACAGAC
 CAAGACTTCTACCAGAAGTTGGCCACAGGCAGTGTGTCCATCCCTGGCAGAATGAGATGGTGGAGACCG
 AGTGCTCCAGGAACTCAATGTCTTTGGGCTGGATGGGTCTGTTCCCCAGACCTGGACTGGAAGGGCCA
 GCCACTGCACCCCCAAGAAGGATTGCTACAGAGACTTTCAGTCGCCAAAGGATTGCTGTGGGAACT
 GCAGCGACAGTGAGGAAGAGCTCCACCCGCCTTAGCCCCAGGCCGAGGCCCCACCGCGGTGGC
 GG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286064
- Insert Size:** 1755 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_001286064.1</u> , <u>NP_001272993.1</u>
RefSeq Size:	3001 bp
RefSeq ORF:	1755 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 (5) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (e) is shorter, compared to isoform a.</p>