

Product datasheet for MR229071

Grk6 (NM_001286066) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Grk6 (NM_001286066) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Grk6
 Synonyms: Gprk6
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR229071 representing NM_001286066
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGGAGGTGACCTAAAGTTCACATCTACCACATGGGCCAGGCTGGCTTTCCTGAAGCACGTGCTG
 TCTTCTATGCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACCGGGAACGCATTGTGTACAGGGATCT
 AAAGCCAGAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACTGGCCGTGCAT
 GTGCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGCTACATGGCTCCAGAGGTGGTGAAGGA
 ATGAGCGCTACACGTTACGCTGCTGACTGGTGGGCGCTAGGCTGCCTCCTGTACGAGATGATCGCAGGTCA
 GTCGCCCTTCCAGCAGAGGAAGAAGAAGATAAAGCGCGAAGAGGTGGAGCGGCTGGTCAAGGAAGTGGCC
 GAGGAGTACACAGACCGCTTTTCTCACAGGCGCGCTCACTCTGTTCTCAGCTTCTTAGCAAGGACCCTG
 CTGAGCGCCTGGGGTGTCTGTGGAGGTGGCGCCGTGAGGTAAGGAGCACCCCTTTTCAAGAACTGAA
 TTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTAAGCCTGATCCCCAGGCTATTTATTGCAAG
 GATGTCCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCCACAGACCAAGACTTCT
 ACCAGAAGTTTGCCACAGGCAGTGTGCCATCCCCTGGCAGAATGAGATGGTGGAGACCGAGTGCCTCCA
 GGAATCAATGTCTTTGGGCTGGATGGTCTGTTCCCCCAGACCTGGACTGGAAGGGCCAGCCCCTGCA
 CCCCCAAGAAGGATTGCTACAGAGACTTTCAGTCGCCAAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229071 representing NM_001286066
 Red=Cloning site Green=Tags(s)

MNGGDLKFHIYHMQAGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILLDDHGHIRISDLGLAVH
 VPEGQTIKGRVGTVGYMAPEVVRNERYTFSPDWWALGCLLYEMIAGQSPFQQRKKKIKREEVERLVKEVA
 EEYTDRFSSQARSLCSQLL SKDPAERLGCRRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCK
 DVLDIEQFSTVKGVDLEPTDQDFYQKFATGSVSI PWQNMVETECFQELNVFGLDGSVPPDLDWKGGQPTA
 PPKKGLLQRLFSRQR

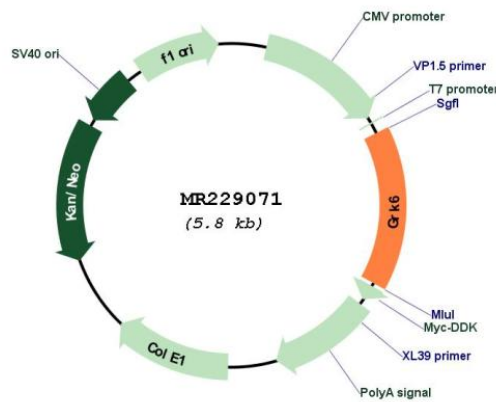
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286066

ORF Size: 885 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001286066.2
RefSeq Size:	2093 bp
RefSeq ORF:	888 bp
Locus ID:	26385
Cytogenetics:	13 30.06 cM
MW:	34 kDa
Gene Summary:	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]