

Product datasheet for **MR230449**

Grk6 (NM_001286065) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001286065) 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



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ORF Nucleotide Sequence:

>MR230449 representing NM_001286065
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGGCCGGGAAGGTGGTGGCGGAATCGCA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCGCCCATATCAGCCAGTGTGAGGAGCTTCGACT
 CAGCCTTGAGCGTACTACCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAATTTCTGAGCCACACGGTCTGACCT
 CATCCCTGAAGTTCACGGCAGCTGGTGTAGTAAGTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGTACCCACAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAAGGCAACCAGTGACAAAAACACCTTCAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTATGTGCCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTACGCATGCAAGAACTGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACG
 AGAAACAGATCTTGAGAAAGTGAACAGTAGGTTTGTAGCTGGCTTTCCTGAAGCACGTGCTGTCTCTA
 TGCTGCTGAGATCTGCTGTGGCCTGGAAGACCTGCACCGGAACGCATTGTGTACAGGGATCTAAAGCCA
 GAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGACCTGGGACTGGCCGTGCATGTGCCTG
 AGGGCCAGACCATAAAGGCCGTGTGGGACTGTGGGCTACATGGCTCCAGAGGTGGTGAAGATGAGCG
 CTACACGTTTCACTCTGACTGGTGGGCGCTAGGCTGCCTCCTGTACGAGATGATCGCAGGTGAGTGGCC
 TTCCAGCAGAGGAAGAAGAAGATAAAGCGCAAGAGGTGGAGCGCTGGTCAAGGAAGTGGCCGAGGAGT
 ACACAGACCGCTTTTCTCACAGCGCGCTCACTGTCTCAGCTTCTTAGCAAGGACCTGCTGACGCG
 CCTGGGGTGTCTGGAGGTGGCGCCGTGAGGTAAGGAGCACCCCTTTTCAAGAACTGAATTTCAAG
 CGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCCTGATCCCGAGGCTATTTATTGCAAGGATGTC
 TGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCACAGACCAAGACTTCTACCAGAA
 GTTTGCCACAGGCAGTGTGTCCATCCCCTGGCAGAATGAGATGGTGGAGACCGAGTGTCTCCAGGAACT
 AATGTCTTTGGGCTGGATGGTCTGTTCGCCAGACCTGGACTGGAAGGGCCAGCCACTGCACCCCCCA
 AGAAGGGATTGCTACAGAGACTTTCAGTCGCCAAGATTGCTGTGGAACTGCAGCGACAGTGAGGAAGA
 GCTCCCCACCCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230449 representing NM_001286065
 Red=Cloning site Green=Tags(s)

MELNIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRSLERDYHSLCERQPIGRLLFREF
 CATRPELTRCTAFLDGVSEYEVTPDEKRRKACGRRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD
 LFAQELTRLTHEYLSTAPFADYLDIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKKLEKRIKKRKEAMALNEKQILEKVNRFVAGFPEARAVFYAAEICCGLEDLHRERIVYRDLKP
 ENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTGYMAPEVVRNERYTFSPDWALGCLLYEMIAGQSP
 FQQRKKIKREEVERLVKEVAEEYDRFSSQARSLCSQLLSKDP AERLGCRRGGAREVKEHPLFKKLNFK
 RLGAGMLEPPFKPDPQAIYKDVLDIEQFSTVKGVLDLEPTDQDFYQKFATGSVSIWQNMVETECFQEL
 NVFGLDGSVPPDLDWKGQPTAPPKGLLQRLF SRQDCCGNCSDSEELPTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

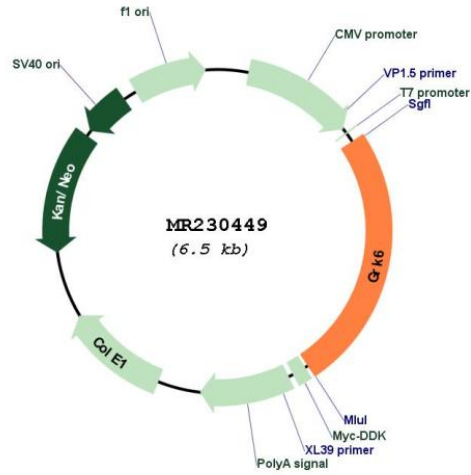
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001286065
ORF Size:	1626 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_001286065.1 , NP_001272994.1
RefSeq Size:	2912 bp
RefSeq ORF:	1629 bp
Locus ID:	26385
UniProt ID:	O70293
Cytogenetics:	13 30.06 cM
MW:	62.6 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]