

## Product datasheet for **MR230591**

### Grk6 (NM\_001286064) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001286064) 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:**

>MR230591 representing NM\_001286064  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTCTACTCAAGCCCGGAAGGTGGTGGCGGAATCGCA  
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCGCCCATATCAGCCAGTGTGAGGAGCTTCGACT  
 CAGCCTTGAGCGTACTACCACAGCCTATGTGAGCGCCAGCCATTGGGCGCCTGTTATTCGTGAGTTC  
 TGTGCTACGAGACCTGAGCTGACCCGGTACTGCCTTCTGGATGGGTGTCTGAATATGAGGTGACCC  
 CTGATGAGAAGCGAAAGCATGTGGCGCCGACTAATGCAGAATTTCTGAGCCACACGGTCTGACCT  
 CATCCCTGAAGTTCACGGCAGCTGGTGTGAGTAACTGTGCCAGCGCTAGAGCAGGGACCCTGCAAAGAC  
 CTCTCCAGGAGTACCCGGCTGACCCACGAGTACCTGAGCAGCGCCCTTTTGCCGACTACCTCGACA  
 GCATCTACTTCAACCGTTTTCTGCAGTGAAGTGGCTGAAAGGCAACCAGTGACCAAAAACACCTTCAG  
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGAGGTGCGGGCAACAGGCAAGATGTACGCATGCAAG  
 AAAGTGGAAAAGAAGCGGATAAAGAAGCGAAAGGGGGAGGCCATGGCTCTCAACGAGAAACAGATCTTGG  
 AGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCTATGAGACCAAGGATGCACTGTGCCTGGT  
 GCTGACATTGATGAATGGAGGTGACCTAAAGTTCACATCTACCACATGGGCCAGGCTGGCTTTCCTGAA  
 GCACGTGCTGCTTCTATGCTGCTGAGATCTGCTGTGGCTGGAAGACCTGCACCGGGAACGCATTGTGT  
 ACAGGGATCTAAAGCCAGAGAATATCCTTCTGGATGACCATGGCCACATTCGGATCTCGGACCTGGGACT  
 GGCCGTGCATGTGCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGGCTACATGGCTCCAGAG  
 GTGGTGAGGAATGAGCGCTACACGTTTCACTGACTGGTGGGCGCTAGGCTGCCTCTGTACGAGATGA  
 TCGCAGTCACTCGCCCTCCAGCAGAGGAAGAAGATAAAGCGCGAAGAGGTGGAGCGCTGGTCAA  
 GGAAGTGGCCGAGGAGTACACAGACCGCTTTCTCACAGGCGCGCTCACTCTGTTCTCAGCTTCTTAGC  
 AAGGACCTGCTGAGCGCTGGGTGCTGTGGAGTGGCGCCGTGAGGTAAAGGAGCACCCCTTTTCA  
 AGAAACTGAATTTCAAGCGGCTGGGAGCTGGCATGCTAGAGCCACCTTTTAAAGCTGATCCCAGGCTAT  
 TTATTGAAGGATGCTCTGGACATTGAACAGTTCTCTACAGTTAAAGGTGTGGATCTGGAGCCACAGAC  
 CAAGACTTCTACCAGAAGTTGCCACAGGCAGTGTGTCCATCCCCTGGCAGAATGAGATGGTGGAGACCG  
 AGTGCTCCAGGAAGTCAATGTCTTTGGGCTGGATGGGTCTGTTCCCCAGACCTGGACTGGAAGGGCCA  
 GCCACTGCACCCCCAAGAAGGATTGCTACAGAGACTTTCAGTCGCCAAAGGATTGCTGTGGGAAGT  
 GCAGCGACAGTGAGGAAGAGTCCCCACCCGCTCTAGCCCCAGGCCGAGGCCCCACCGCGGTGGC  
 GG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230591 representing NM\_001286064  
 Red=Cloning site Green=Tags(s)

MELINIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRLSLERDYHSLCERQPIGRLLFREF  
 CATRPELTRCTAFLDGVSEYEVTPDEKRAKACRRMLQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD  
 LFQELTRLTHEYLSTAPFADYLDLSIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVRATGKMYACK  
 KLEKKRIKRRKGEAMALNEKQILEKVNRFVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMQAGFPE  
 ARAVFYAAEICCGLEDLHRERIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTVGYMAPE  
 VVRNERYTFSPDWWALGCLLYEMIAGQSPFQQRKKIKREEVERLVKEVAEEYDRFSSQARSLCSQLLS  
 KDP AERLGRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLIDIEQFSTVKGVLDLEPTD  
 QDFYQKFATGSVIPWQNEVTECFQELNVFGLDGSVPPDLDWKQOPTAPPKGLLQRLF SRQRIAVGT  
 AATVRKSSPPASSPQAEAPTGGWR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286064.1</a> , <a href="#">NP_001272993.1</a>
<b>RefSeq Size:</b>	3001 bp
<b>RefSeq ORF:</b>	1755 bp
<b>Locus ID:</b>	26385
<b>UniProt ID:</b>	<a href="#">O70293</a>
<b>Cytogenetics:</b>	13 30.06 cM
<b>MW:</b>	67.1 kDa
<b>Gene Summary:</b>	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]