

Product datasheet for **RR203693**

Grk3 (NM_012897) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk3 (NM_012897) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk3
Synonyms:	Adrbk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR203693 representing NM_012897
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGACCTGGAGCCGTGCTGGCCGACGTCAGCTACCTGATGGCCATGGAGAAGAGCAAGGCGACGC
CGGCCGCGCGCCAGCAAGAAGGTCGTCTGCCGGAGCCAGTATCCGGAGTGTGATGCAGAGGTATCT
GGCAGAAAAGAAACGAAATAACCTTTGACAAGATTTTCAATCAGAAAATCGGCTTCTGCTATTTAAAGAT
TTCTGCTTGAATGAAATCGGTGAAGCGGTGCCTCAGGTGAAATTTTATGAAGAGATAAAGGAATACGAGA
AACTGGACAACGAAGAAGACCGGCTGCACCGGAGTCGGCAGATGTACGACGCCTACATCATGAGGGAGCT
TCTGTCCAGCACACCAATTCTCAAAGCAAGCTGTAGAACATGTCCAGAGCCATCTCTCCAAGAAGCAG
GTGACGCCCTACCTTTTTAGCCGTACATAGAAGAAATCTGCGAAAGCCTTCGAGGCGACATCTTCCAAA
AGTTTATGAAAAGCGAAAAATTCAGTACTAGATTCTGTGAGTGAAGAATGTGAATTGAATATTCATCTGAG
CATGAACGACTTCAGTGTGCACAGGATCATCGGCCGAGGAGGTTTGGGGAGTTTACGGCTGCAGGAAA
GCAGACACCGGGAAAATGTATGCCATGAAGTGCTTAGACAAGAAGAGAGTGAAGATGAAACAGGGAGAGA
CACTGGCTTTGAACGAGAGGATCATGTTGTCTCTCGTCAGCACTGGGGACTGTCCCTTATTGTCTGCAT
GACCTATGCCTTCCACACACCAGACAACTCTGCTTATCCTGGACCTGATGAACGGGGGCGACATGCAC
TACCACCTCTCCCAGCACGGGGTGTCTCTGAGAAGGAGATGCGATTTTATGCCAGCGAGATCATCTGG
GCCTCGAGCACATGCACACCTGCTTTGTAGTCTACAGAGACCTGAAGCCTGCGAACATCTCTCTGGATGA
ATATGGGCATGTGAGGATATCGGATCTTGGCCTGGCCTGCGATTTCTCTAAAAAGAAGCCTCACGCCAGT
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GGTTCTCCCTGGGCTGCATGCTCTTCAAGCTCCTGCGGGGCCACAGCCCTTTCAGGCAGCATAAAAACCAA
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CTGAGGTCCTCTTGGAGGGTTTGTCCAGCGGATGTGAGCCAGCGACTGGGCTGCTACGAGGAGGGG
CACGAGAGTTGAAGGAGCACATCTTCTCAAGGCATCGACTGGCAGTATGTGTACTTACGGAAGTACCC
GCCACCCCTAATCCCTCTCGGGGAGAGGTCAATGCCGCAGACGCCTTGTATTTGGCTCGTTTGTATGAA
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GGCCAGGAAGAAGGCTAAAAATAACAGCTTTGTCAAGAAGAAGATTATGCCATGGGGAAGGACTGCATC
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GTTTTGCAATGTGAGAGTGACCCCGAGTTTGCACAGTGGCTGAAAGAGCTGACGTGCACCTTCAACGAGG
CCCAGAGACTGTGCGCCGCGCCCAAGTTCTCAACAAACCAGTGGCCCATCTGGAGTTCTCCAA
GCCACCGCTGTGTACAGAAATAGCAGCGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203693 representing NM_012897
 Red=Cloning site Green=Tags(s)

MADLEAVLADVSYLMAMEKSKATPAARASKKVVLPEPSIRSVMQRYLAERNEITFDKIFNQKIGFLLFKD
 FCLNEIGEAVPQVKFYEEIKEYEKLDNEEDRLHRSRQMYDAYIMRELLSSTHQFSKQAVEHVQSHLSKKQ
 VTPTLFQPYIEEICESLRGDI FQKFMESEKFRFCQWKNVELNIHLSMNDFSVHRIIGRGGFGEVYGCRK
 ADTGMYAMKCLDKKRVKMKQGETLALNERIMLSLVSTGDPCFIVCMTYAFHTPDKLCFILDLMNGGDMH
 YHLSQHGVSSEKEMRFYASEIILGLEMHMTCFVVYRDLKPANILLDEYGHVRISDLGLACDFSKKKPHAS
 VGTHGYMAPEVLQKGTCTYDSSADWFSLGCMLFKLLRGHSPFRQHKTDKHEIDRMTLTVNVQLPDAFSPE
 LRSLLLEGLLQRDVSQRLGCGGGARELKEHIFFKGIDWQYVYLKRYPPPLIPRGEVNAADAFDIGSFDE
 EDTKGIKLLDCDQDL YKNFPLMISERWQQEVVETIYDAVNAETDKIEARKKAKNKQLCQEEDYAMGKDCI
 MHGYMLKLGPNFLTQWQRRYFYLFPNRLWRGEGESRQNL TMEQIMSVEETQIKDRKICILLRVKGGKQF
 VLQCESDPEFAQWLKELCTCFNEAQRLLRRAPKFLNKPRAAILEFSKPP LCHRNSSGL

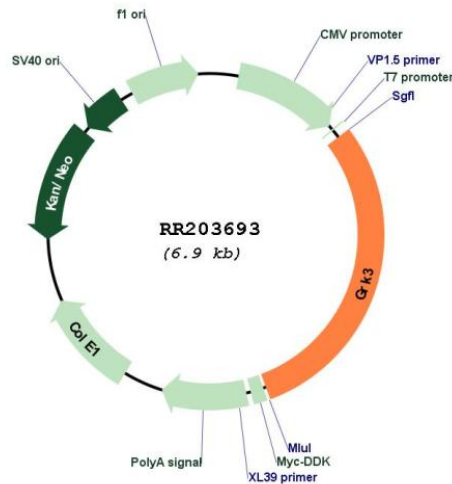
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_012897

ORF Size: 2064 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:

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_012897.2](#), [NP_037029.1](#)

RefSeq Size: 2373 bp

RefSeq ORF:	2067 bp
Locus ID:	25372
UniProt ID:	<u>P26819</u>
Cytogenetics:	12q16
MW:	79.9 kDa
Gene Summary:	catalyzes phosphorylation of the beta-adrenergic receptor; may mediate desensitization of synaptic receptors; may regulate bone formation [RGD, Feb 2006]