

Product datasheet for **RR200338**

Grk6 (NM_031657) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_031657) Rat 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:

>RR200338 representing NM_031657
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTACTCAAGCCCGGAAGGTGGTGGCGGAATCGTA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCACCCACATCAGCCAGTGTGAAGAGCTCCGGCT
 CAGCCTTGAACGTGACTACCACAGCCTGTGTGAGCGTCAGCCATTGGGCGCCTGTTATTTCTGAGTTC
 TGCGCTACGAGGCTGAGCTGACCCGCTGTACTGCCTTCTGGATGGGGTGGCTGAGTATGAGGTGACCC
 CTGATGAGAAACGGAAGGCATGTGGCGTCGGCTAATGCAGAAATTTCTGAGCCACACGGGTCTGACCT
 CATCCCTGAAGTTCACCCGCGAGCTGGTGTGAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGCTGACCCATGAGTACCTAAGCATGGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTCTGTCAGTGAAGTGGCTGAAAAGGCAGCCAGTGACCAAAAACACCTTTAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGGAGGTGTGTGCCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTATGCGTGCAAAAACTGAAAAGAAACGAATAAAGAAGCGGAAGGGGGAGGCCATGGCTCTCAACG
 AGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCATATGAGACCAAGGA
 TGCACTGTGCCTGGTGTGACATTGATGAATGGAGGCGACCTCAAGTTCACATCTACCACATGGGCCAG
 GCTGGCTTTCCGAAGCAGTGTCTTCTATGCTGCCGAGATCTGCTGTGGTCTGGAGGACTTACACC
 GGGAACGCATCGTGTACAGGGACCTAAAGCCAGAGAATACCTTCTGGATGACCATGGCCACATTCGAAT
 CTCCGACTGGCCTGGCTGTGCATGTTCTGAGGGCCAGACCATCAAAGGCCGTGTGGGCACTGTGGGC
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 TCCTGTACGAGATGATTGCGGGACAGTCGCCCTCCAGCAGAGGAAGAAGAAGATCAAGCGGGAGGAGT
 GGAGCGGCTGGTCAAGGAGGTGGCTGAGGAGTACACCGACCGCTTCTCCACAGGCACGCTCACTCTGT
 TCTCAGCTTCTCAACAAGGACCCTGCTGAGCGCCTGGGGTGTCTGGAGGTGGTGGCCGTGAGGTAAGG
 AGCACCCCTTTTCAAGAACTGAATTTCAAGCGGCTGGGAGCTGGAATGCTAGAACCACCTTTTAAACC
 TGACCCCCAGGCCATTTACTGCAAGGACGTGCTGGACATTGAACAGTTCTCCACAGTTAAAGGTGTGGAT
 CTGGAGCCACAGACCAAGACTTCTACCAGAAGTTTGCCACGGGTAGTGTGTCCATCCCTGGCAGAACG
 AGATGGTGGAGACTGAGTGTCTCCAGGAATAATGTCTTTGGGCTGGATGGGTCTTCCCCAGACCT
 GGACTGGAAGGGCAGCCACTGCACCCCAAGAAGGGATTGCTACAGAGACTTTCAGTAGACAAAGG
 ATTGCTGTGGAACTGCAGCGACAGTGAAGAAGAGCTCCCAACCGCCTTAGCCCCAGGCCGAGGCC
 CCACCGCGGCTGGCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200338 representing NM_031657
 Red=Cloning site Green=Tags(s)

MELNIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRLSLERDYHSLCERQPIGRLLFREF
 CATRPELTRCTAFLDGVAEYVTPDEKRAKACRRMLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEEQGPCKD
 LFQELTRLTHEYLSMAPFADYLDLSIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCAQVRATGK
 MYACKKLEKKRIKRRKGEAMALNEKQILEKVNSRFVVSLEYAYETKDALCLVLTLMNGGDLKFHIYHMGQ
 AGFPEARAVFYAAEICCGLEDLHRERIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTG
 YMAPEVVKNERVTFSPDWWALGCLLYEMIAQSPFQQRKKIKREEVERLVKEVAEEYTDRFSPQARSLC
 SQLLNKDPARLGRGGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAIYCKDVLIDIEQFSTVKGVD
 LEPTDQDFYQKFATGVSIPWQNMVETEFCQELNVFGLDGSVPPDLDWKGQPTAPPKGLLQRLF SRQR
 IAVGTAATVKKSSPPASSPQAEAPTGGWR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

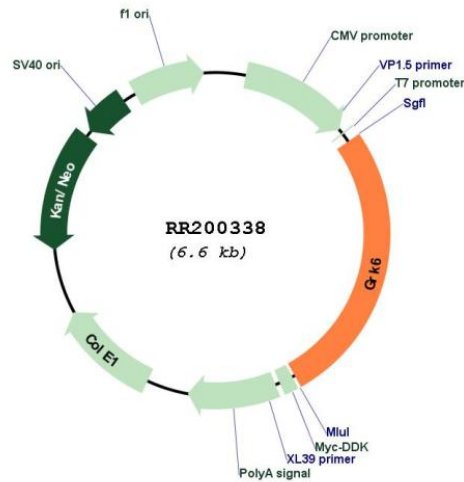
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031657

ORF Size: 1767 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_031657.3 , NP_113845.2
RefSeq Size:	2830 bp
RefSeq ORF:	1770 bp
Locus ID:	59076
Cytogenetics:	17p14
MW:	67.1 kDa
Gene Summary:	G-protein coupled receptor kinase that desensitizes beta adrenergic receptors in myometrium [RGD, Feb 2006]