

Product datasheet for **RR200340**

Grk6 (NM_001112713) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk6 (NM_001112713) 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:

>RR200340 representing NM_001112713
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTCGAGAACATCGTAGCGAACACGGTGTACTCAAGGCCGGGAAGGTGGTGGCGGAATCGTA
 AAGGCAAGAGCAAGAAATGGCGCCAGATGCTGCAGTTCCTCCACATCAGCCAGTGTGAAGAGCTCCGGCT
 CAGCCTTGAACGTGACTACCACAGCCTGTGTGAGCGTCAGCCATTGGGCGCCTGTTATTCGTGAGTTC
 TGCGCTACGAGGCTGAGCTGACCCGCTGTACTGCCTTCTGGATGGGTGGCTGAGTATGAGGTGACCC
 CTGATGAGAAACGGAAGGCATGTGGCGTCGGCTAATGCAGAAATTTCTGAGCCACACGGGTCTGACCT
 CATCCCTGAAGTTCCTCCGAGCTGGTGTGAGTAACTGTGCCAGCGGTAGAGCAGGGACCCTGCAAAGAC
 CTCTCCAGGAGCTGACCCGGCTGACCCATGAGTACCTAAGCATGGCCCTTTTGCCGACTACCTCGACA
 GCATCTACTTCAACCGTTTCTGCAGTGAAGTGGCTGAAAAGGCAGCCAGTGACAAAAACACCTTTAG
 GCAGTACCGAGTCTGGCAAAGGTGGCTTTGGGGAGGTGTGTGCTGCCAGGTGCGGGCAACAGGCAAG
 ATGTATGCGTGCAAAAACTGAAAAGAAACGAATAAAGAAGCGGAAGGGGGAGGCCATGGCTCTCAACG
 AGAAGCAGATCCTGGAGAAAGTGAACAGTAGGTTTGTAGTGAGCTTAGCCTACGCATATGAGACCAAGGA
 TGCACTGTGCCTGGTGTGACATTGATGAATGGAGGCGACCTCAAGTTCACATCTACCACATGGGCCAG
 GCTGGCTTTCCGAAGCAGTGTCTTCTATGCTGCCGAGATCTGCTGTGGTCTGGAGGACTTACACC
 GGGAACGCATCGTGTACAGGGACCTAAAGCCAGAGAATACCTTCTGGATGACCATGGCCACATTCGAAT
 CTCCGACTGGCCTGGCTGTGCATGTTCTGAGGGCCAGACCATCAAAGCCGTGTGGGCACTGTGGGC
 TACATGGCTCCAGAGTGGTGAAGAATGAGCGCTACACATTAGTCTGACTGGTGGGCGCTAGGCTGCC
 TCCTGTACGAGATGATTGCGGGACAGTGCCTTCCAGCAGAGGAAGAAGAAGATCAAGCGGGAGGAGGT
 GGAGCGGCTGGTCAAGGAGGTGGCTGAGGAGTACACCGACCGCTTCTCCACAGGCACGCTCACTCTGT
 TCTCAGCTTCTCAACAAGGACCCTGCTGAGCGCCTGGGTGTGCTGGAGGTGGTGCCTGAGGTAAAGG
 AGCACCCCTTTTCAAGAACTGAATTTCAAGCGGCTGGGAGCTGGAATGCTAGAACCACCTTTTAAACC
 TGACCCCAAGGCCATTTACTGCAAGGACGTGCTGGACATTGAACAGTTCTCCACAGTTAAAGGTGTGGAT
 CTGGAGCCACAGACCAAGACTTCTACCAGAAGTTTCCACGGGTAGTGTGTCCATCCCTGGCAGAACG
 AGATGGTGGAGACTGAGTGTCTCCAGGAATAATGTCTTTGGGCTGGATGGGTCTTCCCCAGACCT
 GGACTGGAAGGGCCAGCCACTGCACCCCAAGAAGGGATTGCTACAGAGACTTTCAGTAGACAAAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200340 representing NM_001112713
 Red=Cloning site Green=Tags(s)

MELNIVANTVLLKAREGGGNRKGKSKKWRQMLQFPHISQCEELRSLERDYHSLCERQPIGRLLFREF
 CATRPELTRCTAFLDGVAEYVTPDEKRKACGRRLMQNFLSHTGPDLIPEVPRQLVSNCAQRLEQGPCKD
 LFQELTRLTHEYLSMAPFADYLDIYFNRFQWKWLERQPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKKLEKKRIKKRKEAMALNEKQILEKVNRFVVSLAYAYETKDALCLVLTLMNGGDLKFHIYHMQ
 AGFPEARAVFYAAEICCGLEDLHREIRIVYRDLKPENILLDDHGHIRISDLGLAVHVPEGQTIKGRVGTVG
 YMAPEVVKNERVTFSPDWWALGCLLYEMIAQSPFQQRKKIKREEVERLVKEVAEEYDRFSPQARSLC
 SQLLNKDPAERLGCRRGGAREVKEHPLFKKLNFKRLGAGMLEPPFKPDPQAICYCKDVLIDIEQFSTVKGVD
 LEPTDQDFYQKFATGSVSIQWQEMVETECFQELNVFGLDGSVPPDLDWKGQPTAPPKGLLQRLF SRQR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

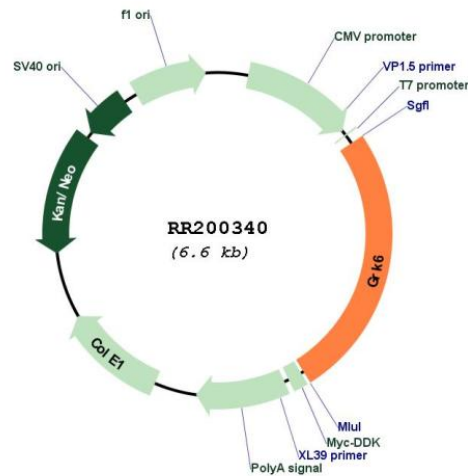
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001112713
ORF Size:	1680 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_001112713.1 , NP_001106184.1
RefSeq Size:	1803 bp
RefSeq ORF:	1683 bp
Locus ID:	59076
Cytogenetics:	17p14
MW:	64.3 kDa
Gene Summary:	G-protein coupled receptor kinase that desensitizes beta adrenergic receptors in myometrium [RGD, Feb 2006]