

Product datasheet for **RR202951**

Grk5 (NM_030829) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk5 (NM_030829) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk5
Synonyms:	Gprk5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202951 representing NM_030829
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGGAAAACATCGTGGCCAACACGGTCTTGCTGAAAGCCCGGGAAGGGGTGGAGGAAAACGCA
 AAGGGAAAAGCAAGAAGTGAAGGAAATCCTGAAGTTTCTCACATCAACCAAGTGTGAAGACCTCCGGAG
 AACCATAGACAGAGATTACTACAGTCTATGTGACAAGCAACCAATTGGGAGACTGCTTTTCGACAATTC
 TGTGAAACCAGGCCTGGACTGGAGTGTACATTGACTTCTGGACTTAGTGGCAGAATATGAAATTAATC
 CAGATGAAAACCTTGGGGCAAAGGGGAAGGAAATATGACCAAGTACCTCTCTCCAAAGTCCCCAGTCTT
 CATTGCCCAAGTTGGACAGGACCTGGTCTCCAGACAGAGAAGAAGCTCCTGCAGAGCCCCTGCAAAGAA
 CTCTTCTGCTGTGCTCAGTCTGTCCATGACTACTTGAAGGGAGACCCCTCCACGAGTACCTGGACA
 GCATGTATTTGACCGTTTTCTGCAGTGGAAATGGTTAGAAAGACAACCAAGTACCAAAAAACACTTCCG
 GCAGTACCGAGTCTGGGCAAAGGGGGCTTTGGAGAGGTTTGTGCCTGCCAGGTTCCGGGCCACTGGTAAA
 ATGTATGCTTGC AAAACGCTTAGAGAAGAAGAGGATCAAAAAAGGAAAGGAGAGTCCATGGCACTCAATG
 AAAAGCAGATTCTTGAGAAAGTCAACAGCCAGTTTGTGGTCAACCTGGCCTATGCCTACGAGACCAAAGA
 TGCACTGTGCTTGGTTCTGACCATATGAATGGAGGTGACCTGAAGTTTACATCTACAACATGGGAAAT
 CCTGGCTTTGAGGAAGAACGAGCCTTGTATATGCAGCTGAGATCCTCTGTGGCCTGGAAGACTTACACC
 GTGAGAACACTGTCTATAGAGATCTAAAACCAGAAAACATCTTGTGGATGATTATGGCCACATCAGGAT
 CTCAGACCTAGGACTGGCTGTGAAGATCCCTGAGGGGGACCTTATCCGTGGCCGGTAGGCACTGTTGGC
 TACATGGCCCCAGAAGTTCTGAACAACCAAGCGATATGGCCTGAGCCCTGACTACTGGGGCCTGGGCTGCC
 TCATCTATGAGATGATCGAGGGCCAGTACCATTCCGAGCCCGCAAGGAGAAGGTGAAGCGGGAAGAGGT
 GGATCGCCGGGTGCTGGAGACTGAGGAAGTGATTTCCCAAGTTCTCTGAAGAGGCCAAGTCCATCTGC
 AACATGCTGCTCACCAAAGACTCGAAGCAGAGGCTGGGCTGCCAGGAGGAGGGGGCTGCCAGGTCAAGA
 GGCACCCCTTCTCAGGAACATGAACCTTAAACGCCTGGAGGCTGGGATGTTGGACCCTCCCTTCGTTCC
 AGATCCCCGGGCTGTATACTGCAAGGATGTGCTGGACATAGAGCAGTTCTCCACTGTGAAAGGTGTCAAC
 TTGGACCATACGGACGATGACTTCTACTCAAAGTTCTCCACAGGCTCTGTGCCAATCCCATGGCAAAACG
 AGATGATAGAAACAGAATGTTTCAAGGAGCTGAATGTGTTCCGACCAACGGTACCCTCTACCAGACCT
 GAACAGAAGTCAAGCTCCAGAACCAAAAGAAAGGGCTGTTCCACAGACTCTTCAGGCGTCAGCATCAA
 AACATCCAAGAGTTCACCTACTCCTAAGACCAGTTGTAAACACCGCATAAATCAAACACATCAATT
 CAAACTCCACTGAAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202951 representing NM_030829
 Red=Cloning site Green=Tags(s)

MELENIVANTVLLKAREGGGKRRKSKKWKELKFPINQCEDLRRTIDRDYYSLCDKQPIGRLLFRQF
 CETRPLECYIQFLDLVAEYEITPDENLGAKEIMTKYLSPKSPVFAIQVQDLVSQTEKLLQSPCKE
 LFSACAQSVHDYLGDPFHEYLDSMYFDRFLQKWLERQPVTKNTFRQYRVLGKGGFGEVCAQVVRATGK
 MYACKRLEKKRIKRGESMALNEKQILEKVNQFVVNLAYAYETKDALCLVLTIMNGGDLKFHIYNMGN
 PGFEERALFYAAEILCGLEDLHRENTVYRDLKPENILLDDYGHIRISDLGLAVKIPEGDLIRGRVGTG
 YMAPEVLNNQRYGLSPDYWGLGCLYEMIEGQSPFRGRKEKVKREEVDRRVLTEEVYSPKFSEEAKSIC
 NMLLTKDSKQRLGCQEEGAAEVKRHPFFRNMNFKRLEAGMLDPPFVPDPRAVYCKDVLIDIEQFSTVKGVN
 LDHTDDDFYSKFTSGVSPWPQWEMIEETCFKELNVFGPNTLSPDLNRSQPPEPPKKGLFHRLFRRHQ
 NNSKSSPTPKTSCNHRINSNHINSNSTGSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

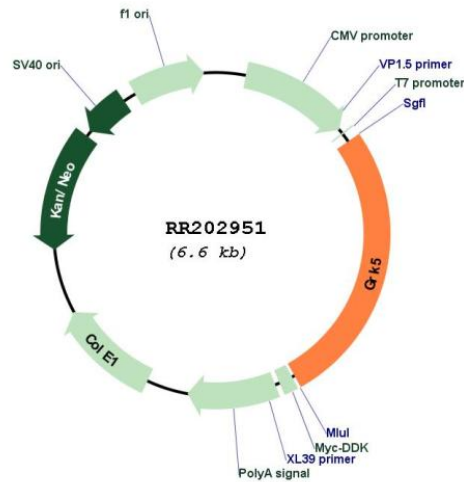
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_030829

ORF Size: 1770 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_030829.1 , NP_110456.1
RefSeq Size:	2318 bp
RefSeq ORF:	1773 bp
Locus ID:	59075
UniProt ID:	Q62833
Cytogenetics:	1q55
MW:	67.8 kDa
Gene Summary:	plays a role in homologous desensitization of the thyrotropin receptor [RGD, Feb 2006]