

Product datasheet for **RR204470**

Grk4 (NM_022928) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk4 (NM_022928) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk4
Synonyms:	Gprk2l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR204470 representing NM_022928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGTGGAGAACTTCATGGCCAACACTTTGTTGCTGAAGGCTCGTCAAGGATTTACCAAAAAGACTG
 GTCGCAGTAAAAAGTGGAGAGAGCTCCTGAAGTTGCCCCAGTCAGCATGTGCAGTGACTTACGACACTC
 CATCGAAAAGGATTTTAGCAGTCTTTGTGACCAACAGCCAATCGAAGACTTCTTTTCAGACAATTCTGT
 AATACGAAACCAGATCTAAAGAGGTGCATTGAATTCCTGGATGCAGCGGCAGAGTATGAAGTTACCATCG
 AAGAGGAACAAAGAGAATTTGGACTATCCATCTACAGTAGATTCTCAAAGAGAATTCAGAAGTCTCCTT
 ACCACAGATACCTCCAGATCTTGTGAAGGAGTGTAAATGCAATCTGAAGCAGAGTTCTCCCTCTCAAAAT
 GTGTTCCAGGACTGTGCTGGAGTTATCTATAAGTATTTGAGTGAAAAACCATTTGAAGAATACCAAGAGA
 GTACATACTATAATCGATTTTACAATGGAAATGGCTAGAAAGGCGTCCAGTAACAAAGAACACATTCAG
 ACAATACAGAGTTTTAGGAAAAGCGGATTTGGAGAGTTTGTGCCTGTCAAGTGGGAGCTACAGGAAAA
 ATGTATGCCTGCAAAAACTAGAAAAAAAAGAATAAAGAAGAGGAAAGGTGAAGCCATGGCTCTGAATG
 AAAAAAGAATCTTAGAAAAATTGCATAGTAGATTTGTAGTTAGTTTAGCCTACACTTATGAAACCAGGA
 TGCTTTGTGTTGGTGCTAACCATTTATGAATGGAGGGATTTGAAGTACCACATTTACAACCTGGGCAAT
 CCTGGCTTTGAGGAGCAGAGAGCTGTGTTCTATGCTGCAGAGCTGTGCTGTGGCTTGAAGATTTACAGA
 GGGAAAGAATTGTATACAGAGACCTAAAACCAGAGAATATCCTCCTTGATGATCATGGACACATCCGAAT
 TTCAGATCTTGGTCTAGCTCTGGAAATCCAGAAGGGGAGATGGTTCGAGGAAGATTTGGTACTGTTGGC
 TACATGGCTCCAGAAATATCAGTCATGAAAAGTATACATTTAGTCTGATTTGGTGGGACTTGGCTGTC
 TGATATAGAAATGATTGCGGGACATTTCCATTCAGAAAAATAAAGAAAAAGTCAACCGGGAGGAAAT
 GGAAAGAAGAGTGAAGACTGAAACTGAGGAGTACTCTGAGAGGTTTTTCAGAGAATGCCAAGTCCATCTGC
 AGCATGTTACTTACCAAGGATCCAAGTAAAAGGCTGGGCTGCCAGAGTGTGGAGCCTCTGCTGTAAGC
 AGCACCCAATATCAAGGATATTAACCTCAGCAGACTGGAAGCAATATGTTAGACCCACCTTTCTGTCC
 TGATCCTGAGGCCATTTATTGTAAGGATATCTGGATATTGGACAGTTCTCTGTGGTGAAGGAGTCAAC
 CTGGACACCAATGATGAGATCTTCTACACTCAATTTGCGACAGGGTGTGTACCATTCCCTGGCAGAAATG
 AGATGATTGAATCTGGATGTTTCAAGGACCTCAATGAATATGAAGATAAAGGTCTGTACCACCTGAAAA
 ACACAAGATATGTTCTGTATTCTTAGACCAAAGAGAACTTCTCCATAGACTCTCAGAAGAGCGGCC
 TGCTGAACATTGCCACAGTGAAGAGAGGGAGCCAACAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204470 representing NM_022928
 Red=Cloning site Green=Tags(s)

MELENFMANTLLLKARQGFKKTGRSKKWRELLKLPVSMCSDLRHSIEKDFSSLCDQQPIGRLLFRQFC
 NTKPDLKRCIEFLDAAAEEVETIEEEQREFGLSIYSRFFKENSEVSLPQIPDLVKECKNLKQSSPSQN
 VFQDCAGVIYKYLSEKPFEEYQESTYYNRFLQKWLERRPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKKLEKRIKRRKGEAMALNEKRILEKLHSRFVVSLEYTYETKDALCLVLTIMNGGDLKYHIYNLGN
 PGFEEQRAVFYAAELCCGLEDLQRERIVYRDLKPENILLDDHGHIRISDLGLALEIPEGEMVRGRVGTG
 YMAPEIISHEKYTFSPDWWGLGLIYEMIAGHSPFRKYKEKVNREEMERRVKTEEYSERFSENAKSIC
 SMLLTKDPSKRLGCQSDGASAVKQHPFIKDFINFSRLEANMLDPPFCPDPEAIYCKDILDIGQF SVVKGVN
 LDTNDEIFYTQFATGCVTIPWQEMIESGCFKDLNEYEDKGLSPLEKHKICSCILRPKRNFFHRLFRRAA
 CLNIAHSEEREPTTEH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

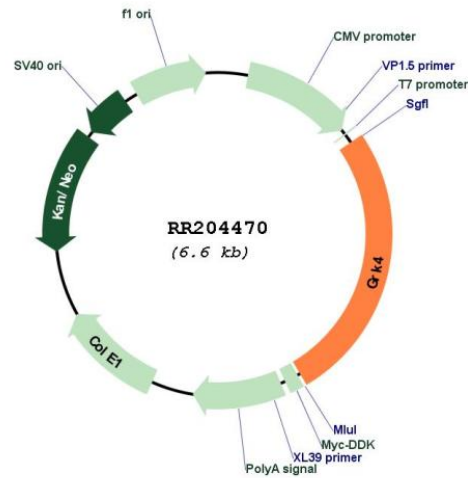
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022928
 ORF Size: 1725 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_022928.1 , NP_075217.1
RefSeq Size:	1997 bp
RefSeq ORF:	1728 bp
Locus ID:	59077
UniProt ID:	P70507
Cytogenetics:	14q21
MW:	66.8 kDa
Gene Summary:	kinase that phosphorylates agonist-occupied form of G protein-coupled receptors and may be involved in testicular and spermatocyte development [RGD, Feb 2006]