

Product datasheet for **MR224771**

Grk1 (NM_011881) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk1 (NM_011881) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk1
Synonyms:	Gprk1; Rhok; Rk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224771 representing NM_011881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTT**CGGGT**CCTTGGAGACCGTGGTGGCCA**ACTCTGC**TT**CATCG**TCGCCGGG**CAGTTT**GACG
 GAAGCAGCACACCGTCTTCCCGAGACAAGAAATATCTGGCCAAGCTCCGGTTGCCCCACTGTCCAAGTG
 TGAGGGTCTCCGTGACAACCTCAGCTTGGAGTTT**GAGAGCCTGTGCTCAGAGCAACCCATCGCAAGAGG**
 CTCTTCCAACAGTTCTTGAAGACAGACGAGAGACATGTGCCAGCTCTGGAGCTCTGGAAGGACATTGAGG
 ACTATGACACTGCTGATGATGACCTGAGGCCACAGAAGGCACAAGCCATCCTGGCTGAGTACCTGGACCC
 ACAGGGCACACTTCTGCAACTTTCTGGACCAGGGCATGGTGACAAGGGTGAAAGAAGGGCCA**ACTGGG**
 AGCCAGGACGGCCTTCCAGCCTTGTCCAGGCCACAATGGAGCACTT**GAGCCAGGCGCCCTTCCAGG**
 AGTACCTAGAAAGCTTGTATTTCTGCGGTTTCTT**CAGTGAAGTGGTTGAAGCCAGCCCATAGTGGA**
 AGACTGGTTCTTGGACTT**CAGGGT**CCTGGGAAAGGGGGCTT**CGGGGAAGTGTCTGCCTGT**CAGATGAAG
 GCGACTGGCAAGATGTATGCCTGCAAGAAGCTCAACAAGAAACGGCTGAAGAAGAGGAAGGGCTAC**CAGG**
 GCGCCATTGTTGAGAAGAGGATTCTGACTAAAGTACACAGCAGGTT**CATTGTGTCTCTGGCCTATGCGTT**
 CGAGACCAAGACGGACCTCTGTCTGGT**GATGACCATCATGAACGGAGGTGACGTGAGGTACCACATCTAC**
 AATGTGGATGAGGATAACCCCGGCTTCTCAGAACCACGGGCCATCTATTACACAGCACAGATCATCAGTG
 GCCTGGAGCACCTGCATCAGAGACG**CATTGTCTACCGTGACCTCAAGCCAGAGAATGTGCTATTGGACAA**
 TGATGGCAATATCCGAATTTCTGACCTTGGACTGGCTGTGGAGCTGAAGGAAGGGCAGAA**AAGACCAAG**
 GGCTACG**CAGGGACCCAGGTT**TCATGGCCCTGAGCTCCTGCGAGGTGAAGAATACGACTTCTCTGTGG
 ACTACTTTGCCCTGGGGT**CACATTGTACGAGATGATCGCAGCCAGAGGACCCCTTCCGAGCCCGAGGAGA**
 GAAGGTAGAGAACAAGGAGCTTAA**GCAACGTATCATCTCAGAGCCTGTGAAGTACCCAGAGAAGTT**CAGC
 CAGGCCAGCAAGGACTTCTGTGAGCAGCTGTTGGAGAAGGACCCGGAGAAGCGCCTGGGCTTCCGGGATG
 GAACCTGTGATGCGCTT**CGGGCAAACGTCCTCTTCAAAGATATCAGCTGGAGGCAGCTCGAAGCCGGGAT**
 GCTCATTCTCCATTCATCC**CAGACTCTAGGACTGTCTATGCCAAGAACATTCAGGACGTGGGTGCCTTT**
 TCCACAGTCAAGGGTGTGGTTTTGACAAAGCGGACACAGAGTTCTTCCAAGAA**ATTCGCCTCTGGCAACT**
 GCTCCATTCCCTGGCAGGAGGATGATCGAGACTGGGCTCTTTGGGGACCTAAATGTGTGGCGCGCAG**A**
 TGGTCAGATGCCGGATGACATGAAGGGAATCACCACGGAGGAGGCAGCCCTACAGCCAAGT**CGGGAATG**
 TGTCATCTCC

ACGCGTACGCGGGCCGCTCGAGCAGAA**ACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224771 representing NM_011881
 Red=Cloning site Green=Tags(s)

MDFGSLETVVANSAFIAAR**GS**SFDGSSTPSSRD**KKYLAKLRLPPLSK**CEGLRDNL**SLEFESLCSEQPIGKR**
 LFQQFLK**TD**ERHVPAL**ELW**KDIEDYDTAD**DLRPQKAQA**ILAEYLD**PQ**GT**LC**FNFLD**QGMVTRVKEGPTG**
 SQDGLF**Q**PLL**QAT**MEHLS**QAPFQEY**LES**LYFLRFLQWKWLEAQPIGEDWFLDFRVLGKGGFGEVSACQMK**
 ATG**KMYACKKLNKRLK**RGYQ**GAIVEKRI**LTKVHSR**FIVSLAYAFETKTDLCLVMTIMNGGDVRYHIY**
 NVDED**N**PGFSEPR**AIYYTAQII**SGLEHL**HQRRI**VYRDL**KPEN**VLLD**NDGNIRISDLGLAVELKEGQNKTK**
 GYAGTPGF**MAPELLR**GEEYDF**SVDYFALGVTL**YEMIAAR**GPFRARGEKVENKELQRII**SEPV**KYPEKFS**
 QASKDF**CEQLLEKDP**EKRL**GFRDGTCDALRANVLFKDISWRQLEAGMLIPPFIPDSRTVYAKNIQDVGAF**
 STVKGV**VF**DKADTE**FQEFASGNCSIPWQE**MIETGLFGDLNVWRAD**GQMPDDMKGITTEEAAPTAKSGM**
 CLIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9010_a06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_011881

ORF Size: 1692 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_011881.3](#), [NP_036011.3](#)

RefSeq Size: 7462 bp

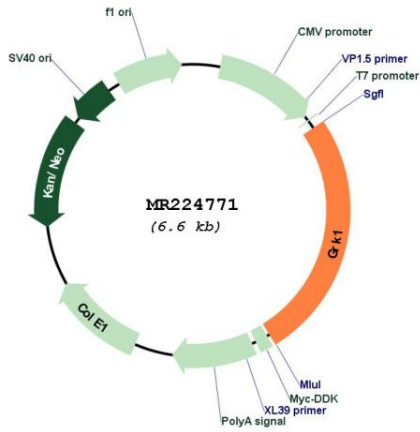
RefSeq ORF: 1695 bp

Locus ID: 24013

Cytogenetics: 8 A1.1

MW: 64.3 kDa

Product images:



Circular map for MR224771