

Product datasheet for **RN210490**

Grk2 (NM_012776) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk2 (NM_012776) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Grk2
Synonyms:	Adrbk1; BARK1; GRK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210490 representing NM_012776
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACCTGGAGCGGTACTGGCCGATGTGAGCTACCTGATGGCCATGGAGAAGAGCAAGGCCACGC
 CGGCCGCGCGCCAGCAAGAAGATCCTGCTGCCAGAGCCAGCATCCGCAGCGTCATGCAGAAGTATCT
 AGAGGATCGAGGAGAAGTGACCTTTGAAAAGATCTTCTCACAGAAGTTAGGATACCTGCTTTCCGGGAC
 TTCTACCTGAACCATCTGGAAGAGGCCAAGCCCTTGGTGGAGTTCTATGAAGAGATCGAGAAATATGAGA
 AGCTGGAGACGGAGGAGAACGTGTGGTCCGCAGCCGGGAGATCTTTGACTCCTACATCATGAAAGAACT
 GCTGGCCTGCTCACATCCCTTTCAAAGAATGCCACGGAGCATGTCCAGGGCCACCTGGTGAAGAAGCAG
 GTACCTCCAGATCTTCCAGCCATACATTGAGGAGATTTGTGAGAACCTCCGAGGGGATGTGTTCCACA
 AATTCATTGAGAGTGACAAGTTCACACGGTTCTGCCAGTGAAGAATGTAGAGCTCAACATCCACCTGAC
 CATGAATGACTTCAGTGTGCATCGAATCATCGGGCGTGGGGCTTCGGTGAGTCTATGGGTGCCGAAA
 GCAGACACAGGAAGATGTACGCCATGAAGTGTCTGGACAAGAAACGCATCAAGATGAAGCAGGGAGAGA
 CCCTGGCTCTGAACGAGCGGATCATGCTTCCCTCGTCAGCACTGGGGACTGCCCTTATCGTGTGCAT
 GTCATATGCATTCCACACACCAGACAAGCTCAGTTTATCCTGGATCTCATGAACGGTGGGGACCTGCAC
 TACCATTGTCTCAGCATGGAGTCTTCTCTGAAGCCGACATGCGCTTCTACGCAGCTGAGATCATCTGG
 GCCTTGAACACATGCACAATCGCTTTGTAGTCTACAGGGACCTAAAGCCAGCCAACATTCCTGGATGA
 GCATGGCCATGTGAGAATCTCAGACCTGGGCTAGCCTGTGACTTCTCCAAGAAGAAGCCTCATGCCAGT
 GTGGGCACACACGGGTACATGGCCCCGGAAGTCTACAGAAGGGCGTGGCCTATGACAGCAGTCCCGACT
 GGTTCTCCCTGGGCTGCATGCTTCAAGTTGTTGCGGGGACACAGCCCCTTCCGGCAGCACAAAGACCA
 AGACAAGCATGAGATTGACCGCATGACATTGACAATGGCTGTTGAGCTGCCTGACTCCTTCTCCCTGAA
 CTCGATCCCTGCTGGAAGGTTTCTGTCAGAGGGATGTCAATCGGAGACTAGGCTGTCTGGGCCGTGGGG
 CTCAAGAGATAAAAGAAAGCCCTTCTTCCGTTCCCTGGACTGGCAGATGGTCTTCTTACAGAAGTACCC
 TCCTCCACTGATCCCCCAGCGGGGAGGTGAATGCAGCGGACGCCTTTGACATTGGCTCCTTTGATGAG
 GAGGACACAAAAGGAATCAAGTTACTGGACAGTGACCAGGAAGTACCAGCAACTCCCTCTCACCATCT
 CTGAGCGGTGGCAACAGGAGGTGGCAGAGACTGTCTTTGATACCATCAATGCTGAGACAGACCGGCTGGA
 GGCACGGAAGAAAGCCAAAAACAACAGCTGGGCCACGAGGAGGACTACGCCCTGGGTAAGGACTGCATC
 ATGCATGGCTACATGTCCAAGATGGGCAACCCCTTCTGACCCAGTGGCAGCGGCGATACTTCTACCTGT
 TCCCCAACCGGCTTGAGTGGAGGGGTGAAGACGAGGCTCCGCAGAGCCTCCTGACCATGGAAGAGATCCA
 GTCGGTGAAGAGACACAGATCAAGGAACGCAAGTGTCTCCTGCTTAAGATCCGAGGTGGCAAGCAGTTT
 GTCCTGCAGTGTGATAGTGACCTGAGCTGGTGAATGGAAAAAGAGCTGCGCGATGCTTACCCTGAGG
 CCCAGCAGCTGGTGCAGCGAGTGCCCAAGATGAAGAACAAGCCACGCTCACCTGTGGTGGAGCTGAGCAA
 GGTGCCACTGATTCAGCGTGGCAGTGCCAAACGGCCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012776
- Insert Size:** 2070 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_012776.1](#), [NP_036908.1](#)

RefSeq Size: 2683 bp

RefSeq ORF: 2070 bp

Locus ID: 25238

UniProt ID: [P26817](#)

Cytogenetics: 1q43

Gene Summary: catalyzes phosphorylation of the beta-adrenergic receptor; may mediate desensitization of synaptic receptors; may regulate bone formation [RGD, Feb 2006]