

Product datasheet for **MR209736**

Grk2 (NM_130863) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk2 (NM_130863) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grk2
Synonyms:	Adrbk-1; Bark-1; beta ARK; betaARK1; GRK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR209736 representing NM_130863
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGAAGTATCTGGAGACCGAGGAGAAGTGACCTTTGAAAAGATCTTTTCGCAGAAGTTAGGGTACC
TGCTTTCCGGGACTTCTGCCTGAACCATCTGGAAGAGGCCAAGCCCTTGGTGGAGTTCTACGAAGAGAT
CAAGAAATATGAGAAGCTGGAGACAGAGGGAACGTGTGGTCCGCAGCCGAGAGATCTTTGACTCCTAT
ATTATGAAAGAACTGCTGGCCTGCTCACATCCCTTTTCAAAGAATGCTACGGAGCATGTCCAGGGCCACC
TGGTGAAGAAGCAGGTGCCTCCAGATCTTCCAGCCATACATTGAGGAGATTTGTGAGAACCCTCCGAGG
GGACGTGTTCCAGAAGTTCATAGAGAGTGACAAGTTCACACGGTCTGCCAGTGGAAAGATGTTGAGCTC
AACATCCACCTGACCATGAATGACTTCAGTGTGCATCGAATCATCGGGCTGGGGCTCCGGTGAGGTCT
ATGGGTGCCGAAAGCAGACACAGGCAAGATGTACGCCATGAAGTGTCTGGACAAGAAACGCATCAAGAT
GAAGCAGGGAGAGACCCTGGCTCTGAACGAGCGGATCATGCTTTCCCTCGTCAGCACCGGGGACTGCCCC
TTCATCGTGTGCATGTGCATATGCATTCCACACACCAGACAAGCTCAGCTTCATCCTGGACCTCATGAACG
GTGGGGACCTGCACTACCACCTGTCTCAGCATGGAGTCTTCTCTGAAGCCGACATGCGCTTCTACGCCGC
TGAGATCATCCTGGGCTTGAACACATGCAACAATCGCTTTGTAGTCTACAGGGACCTGAAGCCAGCCAAC
ATTCTCCTGGATGAACATGGCCATGTGAGAATCTCGGACCTGGGCTAGCCTGTGACTTCTCCAAGAAGA
GGCCTCATGCCAGTGTGGGCACACAGGGTACATGGCCCCGAAGTCTACAGAAGGGCGTGGCCTATGA
CAGCAGTGCACTGGTCTCCCTGGGCTGCATGCTCTCAAGTTGTTGCGGGGACACAGCCCCCTCCGG
CAGCACAAGACCAAGACAAGCATGAGATTGACCGCATGACGTTGACGATGGCTGTAGAGCTGCCTGACT
CCTTCTCCCCTGAACTCCGATCCCTGCTGGAAGTGTGTTGCAGAGGGACGTCAATCGGAGACTAGGCTG
TCTGGGCCGTGGGGCTCAGGAGGTAAGAAAGAAAGTCCCTTTCTTTCTGTTCCCTGGACTGGCAGATGGTCTT
TTACAGAAGTACCCTCCTCCACTGATCCCCCAGTGGGGAGGTGAATGCAGCTGACGCTTTCGACATTG
GCTCCTTTGATGAGGAGGACACAAAAGGAATCAAGTTACTGGACAGTGACCAGGAACTGTACCGCAACTT
CCCTCTACCATCTCTGAGCGGTGGCAACAGGAGGTGGCAGAGACTGTCTTTGATACCATCAATGCTGAA
ACAGACCGGCTGGAGGCACGAAAGAAGGCCAAAAACAACAGCTGGGCCACGAGGAGACTATGCCCTGG
GTAAGGACTGCATCGTGCATGGTACATGTCCAAGATGGGCAACCCCTTCTGACCCAGTGGCAGCGGCG
ATACTTCTACTTGTCCCAACCGGCTCGAGTGGAGGGTGAAGGCGAGGCTCCGCAGAGCCTCCTGACC
ATGGAGGAGATCCAGTCACTGGAAGAGACAGATCAAGGAACGCAAGTGTCTCCTGCTTAAGATCCGAG
GTGGCAAGCAGTTTGTCTGCAGTGTGATAGTATCCAGAGCTGGTGAATGGAAAAAGGAGCTGCGTGA
TGCCATACCGGAGGCCACGAGCTGGTACAGCGAGTACCAAGATGAAGAACAAGCCACGCTCGCCTGTG
GTGGAGCTGAGCAAGGTGCCGCTGATCCAGCGTGGCAGTGCCAACGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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_130863.2](#)

RefSeq Size: 3332 bp

RefSeq ORF: 1944 bp

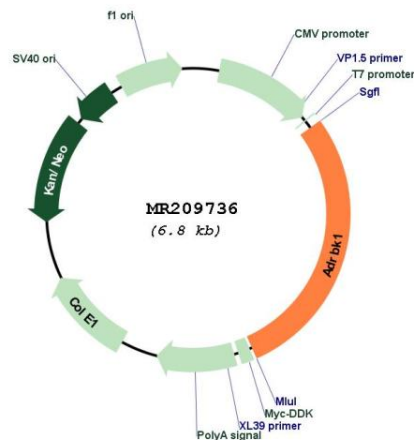
Locus ID: 110355

Cytogenetics: 19 3.98 cM

MW: 75.6 kDa

Gene Summary: Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors, probably inducing a desensitization of them. Key regulator of LPAR1 signaling. Competes with RALA for binding to LPAR1 thus affecting the signaling properties of the receptor. Desensitizes LPAR1 and LPAR2 in a phosphorylation-independent manner. Positively regulates ciliary smoothened (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209736



Coomassie blue staining of purified Grk2 protein (Cat# [TP509736]). The protein was produced from HEK293T cells transfected with Grk2 cDNA clone (Cat# MR209736) using MegaTran 2.0 (Cat# [TT210002]).