

Product datasheet for **MC204540**

Grk2 (NM_130863) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk2 (NM_130863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk2
Synonyms:	Adrbk-1; Bark-1; beta ARK; betaARK1; GRK2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

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>BC053922
CAAGGCCACGCCGGCCGCGCGCCAGCAAGAAGATCCTGCTGCCAGAGCCCAGGGGACCTCCCATCCTA
CAGCAGATGGACCATGCTGCCACCTCTCTACAAGACAAGTGTATGTCATCGCACCTGCATCCGCAGCGTCA
TGCAGAAGTATCTGGAGGACCGAGGAGAAGTGACCTTTGAAAAGATCTTTTCGCAGAAGTTAGGGTACCT
GCTTTTCCGGGACTTCTGCCTGAACCATCTGGAAGAGGCCAAGCCCTTGGTGGAGTTCTACGAAGAGATC
AAGAAATATGAGAAGCTGGAGACAGAGGAGGAACGTGTGGTCCGCAGCCGAGAGATCTTTGACTCCTATA
TTATGAAAGAAGTGTGGCCTGCATCACATCCCTTTTCAAAGAATGCTACGGAGCATGTCCAGGGCCACCT
GGTGAAGAAGCAGGTGCCCTCCAGATCTCTCCAGCCATACATTGAGGAGATTTGTGAGAAGCTCCGAGGG
GACGTGTTCCAGAAGTTCATAGAGAGTGACAAGTTCACACGGTCTGCCAGTGGAAAGAATGTTGAGCTCA
ACATCCACCTGACCATGAATGACTTCAGTGTGCATCGAATCATCGGGCGTGGGGGCTTCGGTGAGGTCTA
TGGGTGCCGAAAGCAGACACAGGCAAGATGTACGCCATGAAGTGTCTGGACAAGAAACGCATCAAGATG
AAGCAGGGAGAGACCCTGGCTCTGAACGAGCGGATCATGCTTTCCCTCGTCAGCACCGGGGACTGCCCT
TCATCGTGTGCATGTCATATGCATTCCACACACCAGACAAGCTCAGCTTCATCCTGGACCTCATGAACGG
TGGGGACCTGCACTACCACCTGTCTCAGCATGGAGTCTTCTCTGAAGCCGACATGCGCTTCTACGCCGT
GAGATCATCCTGGGCCTTGAACACATGCACAATCGCTTTGTAGTCTACAGGGACCTGAAGCCAGCCAACA
TTCTCCTGGATGAACATGGCCATGTGAGAATCTCGGACCTGGGCCTAGCCTGTGACTTCTCAAGAAGAG
GCCTCATGCCAGTGTGGGCACACACGGGTACATGGCCCCGAAGTCTACAGAAGGGCGTGGCCTATGAC
AGCAGTGCAGACTGGTCTCCCTGGGCTGCATGCTCTTCAAGTGTTCGGGGACACAGCCCTTCCGGC
AGCACAAGACCAAAGACAAGCATGAGATTGACCGCATGACGTTGACGATGGCTGTAGAGCTGCCTGACTC
TTCTCCCTGAACTCCGATCCCTGCTGGAAAGTGTTCGAGAGGGACGTCATCGGAGACTAGGCTGT
CTGGGCGGTGGGGCTCAGGAGGTAAGAAAGTCTTTTTCGTTCCCTGGACTGGCAGATGGTCTTCT
TACAGAAGTACCCTCCTCACTGATCCCCCACGTGGGGAGGTGAATGCAGCTGACGCTTTCGACATTGG
CTCCTTTGATGAGGAGGACAAAAGGAATCAAGTACTGGACAGTGAACAGAACTGTACCCGAACTTC
CCTCTCACCATCTCTGAGCGGTGGCAACAGGAGGTGGCAGAGACTGTCTTTGATACCATCAATGCTGAAA
CAGACCGGCTGGAGGCACGAAAGAGGCCAAAAACAACAGCTGGGCCACGAGGAGGACTATGCCCTGGG
TAAGGACTGCATCGTGCATGGCTACATGTCCAAGATGGGCAACCCCTTCTGACCCAGTGGCAGCGGCGA
TACTTCTACTTGTTCCTCAACCGGCTCGAGTGGAGGGGTGAAGGCGAGGCTCCGCAGAGCCTCCTGACCA
TGGAGGAGATCCAGTCAAGTGAAGAGACACAGATCAAGGAACGCAAGTGTCTCCTGCTTAAGATCCGAGG
TGGCAAGCAGTTTGTCTGCAGTGTGATAGTGTCCAGAGCTGGTCAATGGAAAAAGGAGCTGCGTGAT
GCCTACCGCGAGGCCAGCAGCTGGTACAGCGAGTACCAAGATGAAGAACAAGCCACGCTCGCCTGTGG
TGGAGCTGAGCAAGGTGCCGCTGATCCAGCGTGGCAGTGGCAACGGCCTCTGATCCACCCATGTGCTGCC
CGCCTGCCACCCGCCTTTTATAAACCTCTAATTTATTTTGTGAATTTTATTATTTGTTTTCCCGCAA
AGCGGAAAATGTTTTATTTTGAATTTATTTGATCTCCTGTGGCCCCAGCCTGGCCCCAGCCCCAGGGAG
GGGCCCCGTTGCCTCAGCTCCTGCTGCCACCAACCCAGCCACTGTCTAGCACCCCTCCCCTGTCCCCACT
CCCACCCCTAGGGTCTTGTCTCCAGTATCTTCTACAGGGAAGAAGAGCAACCCCTCAGCAGCCCTCTT
GCCCTCCATGGGGTGAAGCCACACTCAGTGGGTGTGTCACTTACGGCTCTGTGGGCTGTGCTCAGTCTG
TGGCCAGCACCCCTGCCCTAGAAAGGGGCAACACAGGTTACTACTTGAACCTTCTATCACAGCTCCCA
TGCACAGAGGGACAGACCCCTGCTGTCTGCCCTCTTGGCACTGGTGAAGAGAGCCCTGTGTACCATGCC
TCATCAGGAGGCTGCCATTGGCAGTGGTGTCTGCTGGCCCTCCCTGCAAGTCCCCTTCTTCTCCTGTTGCG
TGCTGGACTCAGGAGCATAGAAAAGACAATTGTGGATTGGGCCACACTGGCCTAGCCTGAACCTAGATC
CCTAACCTGGGCTGGGTGAGGCTCACCTGCCAGGACCACAGTGGGACAGCCTGGGAGGTGGGTGGCA
CAGCATAAGAACCAGCTGGGGCCAGCCCTCCCTGTCTGGTGGTCAAGTGTGCCCCACCCACACTGTC
CAGCCCTTAGCCATGTATGTCAAGTGGCCACTGCCACAGGTGCCACCTTGGCCACCGCATGACCCCT
TGTGCCAGTCGCGCAGCTGTGTGGTGTGCGCCCTCTCCCTTGGGGGCTGGGTGGGCACACCCCTCC
CTCTTGTCTACTACTCCTAGGGCGTTTCTTTGCCGATTTTGAATGTGATTTTAAAGAGTGAAAAATGA
GACTATGCGTTTTTATAAAAAATGGTGCCTGAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

RsrII-NotI

ACCN:	NM_130863
Insert Size:	1944 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:	<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:	BC053922 , AAH53922
RefSeq Size:	3332 bp
RefSeq ORF:	1944 bp
Locus ID:	110355
Cytogenetics:	19 3.98 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>