

Product datasheet for **MC228681**

Grk2 (NM_001290818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk2 (NM_001290818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grk2
Synonyms:	Adrbk-1; Bark-1; beta ARK; betaARK1; GRK2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228681 representing NM_001290818
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGACCTGGAGCGGTGCTGGCCGATGTGAGCTACCTGATGGCCATGGAGAAGAGCAAGGCCACGC
 CGGCCGCGCGCCAGCAAGAAGATCCTGCTGCCAGAGCCAGCATCCGAGCGTCATGCAGAAGTATCT
 GGAGGACCGAGGAGAAGTGACCTTTGAAAAGATCTTTTCGAGAAGTTAGGGTACCTGCTTTCCGGGAC
 TTCTGCCTGAACCATCTGGAAGAGGCCAAGCCCTTGGTGGAGTTCTACGAAGAGATCAAGAAATATGAGA
 AGCTGGAGACAGAGGAGAACGTGTGGTCCGAGCCGAGAGATCTTTGACTCCTATATTATGAAAGAACT
 GCTGGCCTGCTCACATCCCTTTCAAAGAATGCTACGGAGCATGTCCAGGGCCACCTGGTGAAGAAGCAG
 GTGCCCTCAGATCTTCCAGCCATACATTGAGGAGATTTGTGAGAACCTCCGAGGGGACGTGTTCCAGA
 AGTTCATAGAGAGTGACAAGTTCACACGGTTCTGCCAGTGAAGAATGTTGAGCTCAACATCCACCTGAC
 CATGAATGACTTCAGTGTGCATCGAATCATCGGGCGTGGGGCTTCGGTGAGGTCTATGGGTGCCGAAA
 GCAGACACAGGCAAGATGTACGCCATGAAGTGTCTGGACAAGAAACGCATCAAGATGAAGCAGGGAGAGA
 CCCTGGCTCTGAACGAGCGGATCATGCTTCCCTCGTCAGCACCCGGGACTGCCCTTATCGTGTGCAT
 GTCATATGCATTCCACACACCAGACAAGCTCAGCTTATCCTGGACCTCATGAACGGTGGGGACCTGCAC
 TACCACCTGTCTCAGCATGGAGTCTTCTCTGAAGCCGACATGCGCTTCTACGCCGCTGAGATCATCTGG
 GCCTTGAACACATGCACAATCGCTTTGTAGTCTACAGGGACCTGAAGCCAGCCAACATTCTCTGGATGA
 ACATGGCCATGTGAGAATCTCGGACCTGGGCTAGCCTGTGACTTCTCCAAGAAGAGGCCATGCCAGT
 GTGGGCACACACGGGTACATGGCCCCGAAGTCTACAGAAGGGCGTGGCCTATGACAGCAGTGCAGACT
 GGTTCCTCCCTGGGCTGCATGCTTCAAGTTGTTGCGGGGACACAGCCCCTTCCGGCAGCACAAAGACCA
 AGACAAGCATGAGATTGACCGCATGACGTTGACGATGGCTGTAGAGCTGCCTGACTCCTTCTCCCTGAA
 CTCGGATCCCTGCTGGAAGGTTTGTGTCAGAGGGACGTCATCGGAGACTAGGCTGTCTGGGCCGTGGGG
 CTCAGGAGGTAAGAAAGTCTTTCTTTCGTTCCCTGGACTGGCAGATGGTCTTCTTACAGAAGTACCC
 TCCTCCACTGATCCCCCACGTGGGGAGGTGAATGCAGCTGACGCTTTCGACATTGGCTCCTTTGATGAG
 GAGGACACAAAAGGAATCAAGTTACTGGACAGTGACCAGGAAGTACCAGCAACTCCCTCTCACCATCT
 CTGAGCGGTGGCAACAGGAGGTGGCAGAGACTGTCTTTGATACCATCAATGCTGAAACAGACCGGCTGGA
 GGCACGAAAGAAGGCCAAAAACAACAGCTGGGCCACGAGGAGACTATGCCCTGGTAAGGACTGCATC
 GTGCATGGCTACATGTCCAAGATGGGCAACCCCTCCTGACCCAGTGGCAGCGGCATCTTCTACTTGT
 TCCCCAACCGGCTCGAGTGGAGGGTGAAGGCGAGGCTCCGAGAGCCTCCTGACCATGGAGGAGATCCA
 GTCAGTGAAGAGACACAGATCAAGGAACGCAAGTGTCTCCTGCTTAAGATCCGAGGTGGCAAGCAGTTT
 GTCCTGCAGTGTGATAGTATCCAGAGCTGGTGAATGGAAAAAGGAGCTGCGTGTGCCTACCGCAGG
 CCCAGCAGCTGGTACAGCGAGTACCAAGATGAAGAACAAGCCACGCTCGCCTGTGGTGGAGCTGAGCAA
 GGTGCCGCTGATCCAGCGTGGCAGTGCCAACGGCCTC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001290818

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).

OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001290818.1</u> , <u>NP_001277747.1</u>
RefSeq Size:	3379 bp
RefSeq ORF:	2070 bp
Locus ID:	110355
UniProt ID:	<u>Q99MK8</u>
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 (1) represents the shorter transcript and encodes the longer isoform (1).</p>