

Product datasheet for **MC224106**

Rasgrf1 (NM_011245) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrf1 (NM_011245) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rasgrf1
Synonyms:	AI844718; CDC25; CDC25Mm; Gnnp; Grf1; Grfbeta; p190; P190-A; p190RhoGEF; Ras-GRF1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224106 representing NM_011245 Red=Cloning site Blue=ORF Orange=Stop codon

CTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGCAGAAAGCCATCCGGCTTAACGATGGCCACGTCGTGACCCTGGGACTGCTGGCACAGAAGGACGGCA
CGCGCAAAGGCTACCTGAGCAAGAGGAGTGGGACAACCCAAAATGGCAAACCAAGTGGTTTGCCTGCT
CCAGAACCTGCTTTTCTACTTCGAAAGCGACTCCAGCCCTCGGCCCTCGGGGCTCTACCTGCTCGAGGGA
AGTATCTGTAAACGCGCGCCCTCCCCAAAGCGAGGGACCTCCTCCAAGGAGTCCGGCGAGAAACAGCAAC
ATTACTTCACAGTGAACCTTCTCCAATGACAGCCAGAAGACCTTGGAGTTGAGGACCGAGGATGCCAAGGA
CTGTGACGAGTGGGTGGCTGCGATCGCTCGCGCCAGCTACAAGATACTGGCTACAGAACATGAGGCGCTT
ATGCAGAAGTACTTACACCTGCTGCAGGTAGTGGAGACAGAGAAGACTGTGGCTAAGCAGCTGCGCCAGC
AGCTTGAGGACGGTGAGGTTGAGATCGAGCGCCTGAAGACGGAGGTAACATTACAAACCTGATCAAGGA
CAATGATCGTATCCAATCCAGCAACAAAGCCGGTTCTGCTGATGATGAGGACAGTGACATCAAGAAAATT
AAGAAGTTTCCAGACTTCTTCCGGGATGGCTGTGCCGGCGAAAGTGGAAGAACATCATCCAGGACTACA
TCCGGTCTCCCCACGCGGACAGCATGCGCAAGAGGAACCAAGTGGTGTTCAGCATGCTGGAGCCGAGGC
TGAGTACGTCCAGCAGTACACATCCTTGTCAACAACCTTCTGCCCCACTGCGCATGGCCGCCAGCTCT
AAGAAAACCCCTATAACACACGACGACGTGAGCAGTATCTTTCTGAACAGCGAGACCATCATGTTCTGTC
ATCAGATCTTCTACCAAGGCTGAAGGCCGATCTCCAGCTGGCCACCCTGGTCTGGCGGACCTGTT
CGATATCTGCTGCCATGCTGAACATCTACCAGGAGTTCGTCGCAACCACCAGTACAGCCTCCAGATC
CTTGCTCACTGCAAGCAAACCGGGACTTTGACAAGCTCCTCAAGCAGTACGAGGCCAAGCCAGACTGCG
AGGAGCGCACACTGGAGACCTTCTCACCTACCAATGTTCCAGATCCCCAGGTACATCCTGACACTCCA
TGAGCTGCTGGCCACACACCTCATGAGCATGTGGAGCGCAACAGCCTGGACTATGCCAAATCCAAACTA
GAGGAAGTGTCCAGGATCATGCATGACGAAGTCAGTGAACCCGAGAACATCCGCAAAAACCTGGCCATTG
AGCGTATGATCACGGAGGCTGTGAGATCCTCCTGGACACCAGCCAGACCTTCGTGCGCCAAGGTTCCCT
CATGAGATGTCTTGTCTGAAAAGAGCAAGTCTCTAGGGGCCCGCTGGGGTCTCTGTCCACTAAGAAA
GAGGGTGAGCGCCAGTGTTCCTATTCTCCAAGCATCTCATTATCTGCACCAGAGGCTCTGGTGGGAAAC



TGCACCTAACCAAGAATGGAGTCATATCCCTCATTGACTGCACCTTACTGGATGAACCCGAAAACCTGGA
 CGACGAAGCCAAAGGAGCCGGACAGAGATAGAACACCTGGAGTTTAAGATCGGGGTGGAGCCAAAGGAC
 TCCCTACCTTCACTGTTCATCTGGTAGCCTCAACCAGGCAGGAGAAGGCAGCATGGACCAGTGACATCA
 TCCAGTGGGTGGATAATATCCGCTGCAATGGGCTCATGATGAATGCCTTTGAAGAAAATTCACAGGTCAC
 CGTGCCTCAGATGATCAAGTCTGACGCTTCCTTATATTGTGATGATGTTGACATTCGCTTCAGCAAAACC
 ATGAATTCCTGCAAAGTGCTTCAGATCCGCTATGCCAGCGTGGAGCGCTGCTGGAGCGCCTGACTGATC
 TTCGCTTCCCTGAGCATTGACTTTCTCAACACCTTCCTGCATTCCATCGCGTCTTCACCAATGCTATGGT
 GGTCTGGACAAGCTGATCAATATCTACAGAAAACCCATGAGTGCATTCTGCCAGGTCCTGGAACTC
 TTGTTTTCCAGCAGCCACAACGCCAAGCTTCTGTACGGAGATGCCCTAAGTCCCCTCGCGCCAGCCGCA
 AGTTCTCCTCGCCACCGCCCTTGGCCATCGGGACGTATCCCCAGCCGCGTGGAAAGCTGTCCCTCAA
 CATCCCCATCATCAGGCGGCAAGGCGTGGAACTGGCTTCCCTTGGGTGCAGCTCCGATAGCTACGCC
 AACATACTCACCATACTCCCTTCGGCAAAACCACTGGACTGGCAAGCTCTGTATGGCCAGCA
 GCTTACCAAGACTCCAGAGGAGATTGATGTGCCTGCCACGATTCAGAGAAGCCTGGGAGCTCTCAGC
 CTCAGGAAGCATAGCTCTGATGCTGAAAGAAGAGTCCGAGGATGACCAGAACCACAGTGATGAAGAC
 AACACAGAAGTGCACCAGTTAAATCCCACCAACACCAAAATCGTTCTTAAACAGAACCATTACAGAGT
 TTCATTCTTAACTACAACAATGGAATCCTGATGACCACGTGTCGTGATCTGGTGGACAATAACCGCAG
 CACTCTCTCAGCTACTTCTGCCTTTGCCATAGCGACTGCAGGAGCCAATGAAGGCCCTCAAACAAGGAG
 GTGTTTCGAAGGATGTCTTTGGCCAACACAGGCTTTTCCTCTGACCAGAGAAATATCGACAAGGATTTG
 TGATCCGAGAGCTGCCACCAATCGTGTGCTGAATGTGCTCCGCCACTGGGTACCAAGCACACCCAGGA
 CTTTGATACCGACGATACGCTCAAATACAGGATGATCTGTTTCTGGAGGAGTGCATGCATGACCCAGAC
 CTTCTGACCCAAGAGCGAAAGGCAGCAGCAACATCATCAGGACTCTGACCCTAGAAGAAACAACGAAC
 AACATAGCATGCTGGAAGAAGTCATACTGATGACGGAGGGTGTGAAGACTGAGCCCTTCGAAAACCAACC
 AGCCCTGGAGATAGCAGAGCAGCTGACCCTGCTGGATCACCTTGTCTTCAAGAGTATTCCTTATGAAGAG
 TTCCTTTGGCCAGGCTGGATGAAGGCCGAGAAGTATGAAAGGACACCTTACATTATGAAAACCAACAAAC
 ACTTCAACCATGTGAGTAACTTCAATTGCTTCAAAATTATCCGAAACGAGGACATCAGCGCAAGGGCAAG
 CGCCATCGAGAAGTGGTGGCTGTGGCCGACATATGTCGCTGCCTGCACAACATAATGCTGTGCTGGAG
 ATCACCTCTCCATCAACCGCAGCGCCATCTTCCGTCTCAAAAAGACATGGCTCAAAGTTTCTAAGCAGA
 CGAAATCTTTGCTTGACAAGCTCCAAAAGCTTGTGTCATCAGATGGCAGATTTAAGAACCTCAGAGAGTC
 TTTGAGAAATTGTGATCCACCCTGTGTCCTTACCTGGGATGTATCTCACCGACTTGGTGTTCATCGAG
 GAGGGGACACCAATTACACAGAGGACGGCCTGGTCAACTTCTCCAAGATGAGAATGATCTCCCATTA
 TCCGAGAGATTCGCCAGTTTCAGCAGACTACCTACAAAATCGACCCCAAGCAAGGTAATTCAGTACTT
 ACTGGATGAATCTTTCATGTTGGACGAAGAAGCCTGTATGAGTCTTCGCTCCTAATCGAACCAAAACTC
 CCCACATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: AscI-MluI
ACCN: NM_011245
Insert Size: 3789 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_011245.2](#), [NP_035375.1](#)

RefSeq Size: 4243 bp

RefSeq ORF: 3789 bp

Locus ID: 19417

UniProt ID: [P27671](#)

Cytogenetics: 9 47.31 cM

Gene Summary: Promotes the exchange of Ras-bound GDP by GTP.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).