

Product datasheet for MR224849

Rasgrf1 (NM_011245) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrf1 (NM_011245) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasgrf1
Synonyms:	AI844718; CDC25; CDC25Mm; Gnnp; Grf1; Grfbeta; p190; P190-A; p190RhoGEF; Ras-GRF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224849 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCCG
GCC

ATGCAGAAAGCCATCCGGCTTAACGATGGCCACGTCGTGACCCTGGGACTGCTGGCACAGAAGGACGGCA
CGCGCAAAGGCTACCTGAGCAAGAGGAGTGGGACAACCCAAAATGGCAAACCAAGTGGTTTGCCTGCT
CCAGAACCTGCTTTTCTACTTCGAAAGCGACTCCAGCCCTCGGCCCTCGGGGCTCTACCTGCTCGAGGGA
AGTATCTGTAACGCGCGCCCTCCCCAAGCGAGGGACCTCCTCAAGGAGTCCGGCGAGAAACAGCAAC
ATTACTTCACAGTGAACCTCTCCAATGACAGCCAGAAGACCTTGGAGTTGAGGACCGAGGATGCCAAGGA
CTGTGACGAGTGGGTGGCTGCGATCGCTCGCGCCAGCTACAAGATACTGGCTACAGAACATGAGGCGCTT
ATGCAGAAGTACTTACACCTGCTGCAGGTAGTGGAGACAGAGAAGACTGTGGCTAAGCAGCTGCGCCAGC
AGCTTGAGGACGGTGAGGTTGAGATCGAGCGCCTGAAGACGGAGGTAACCTATTACAAACCTGATCAAGGA
CAATGATCGTATCCAATCCAGCAACAAAGCCGGTTCTGCTGATGATGAGGACAGTACATCAAGAAAATT
AAGAAGGTTGAGGCTTCCCTCGGGGATGGCTGTGCCGGCGAAAGTGGAAGAATCATCCAGGACTACA
TCCGGTCTCCCCACGCGGACAGCATGCGCAAGAGGAACCGGTGGTGTTCAGCATGCTGGAGGCCGAGGC
TGAGTACGTCCAGCAGCTACACATCCTTGTCAACAACCTCCTGCGCCACTGCGCATGGCCGCCAGCTCT
AAGAAACCCCTATAACACACGACGACGTCAGCAGTATCTTTCTGAACAGCGAGACCATCATGTTCTCTGC
ATCAGATCTTCTACCAAGGCTGAAGGCCGTATCTCCAGCTGGCCACCCTGGTGTGCTGGCGGACCTGTT
CGATATCTGCTGCCATGCTGAACATCTACCAGGAGTTCGTCCGCAACCACCAGTACAGCCTCCAGATC
CTTGCTCACTGCAAGCAAACCGGGACTTTGACAAGCTCCTCAAGCAGTACGAGGCCAAGCCAGACTGCG
AGGAGCGCACACTGGAGACCTTCTCACCTACCAATGTTCCAGATCCCCAGGTACATCCTGACACTCCA
TGAGCTGCTGGCCACACACCTCATGAGCATGTGGAGCGCAACAGCCTGGACTATGCCAAATCCAAACTA
GAGGAAGTGTCCAGGATCATGCATGACGAAGTCAGTGAACCCGAGAACATCCGCAAAACCTGGCCATTG
AGCGTATGATCACGGAGGCTGTGAGATCCTCCTGGACACCAGCCAGACCTTCGTGCGCCAAAGTTCCT
CATGCAGATGTCCTGTCTGAAAAGAGCAAGTCTCTAGGGGCCCGCTGGGTCTCTGTCCACTAAGAAA



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GAGGGTGAGCGCCAGTGTTCCTATTCTCCAAGCATCTCATTATCTGCACCAGAGGCTCTGGTGGGAAAC
TGCACCTAACCAAGAATGGAGTCATATCCCTCATTGACTGCACCTTACTGGATGAACCCGAAAACCTGGA
CGACGAAGCCAAAGGAGCCGGACCAGAGATAGAACACCTGGAGTTAAGATCGGGGTGGAGCCAAAGGAC
TCCCTACCCTTCACTGTCATCCTGGTAGCCTCAACCAGGCAGGAGAAGGCAGCATGGACCAGTGACATCA
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TTGTTTTCCAGCAGCCACAACGCCAAGCTTCTGTACGGAGATGCCCTAAGTCCCCTCGCGCCAGCCGCA
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GCTTACCAAGACTCCAGAGGAGATTGATGTGCCTGCCACGATTCAGAGAAGCCTGGGGAGCTCTCAGC
CTCCAGGAAGCATAGCTCTGACGCTCTGAAAGAAGAGTCCGAGGATGACCAGAACCACAGTGATGAAGAC
AACACAGAAGTGTACCAGTTAAATCCCCACCAACACCAAAATCGTTCTTAAACAGAACCATTACAGAGT
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CACTCTCTCAGCTACTTCTGCCTTTGCCATAGCGACTGCAGGAGCCAATGAAGGCCCTCAAACAAGGAG
GTGTTTCGAAGGATGTCTTTGGCCAACACAGGCTTTTCTCTGACCAGAGAAATATCGACAAGGAGTTTG
TGATCCGACAGCTGCCACCAATCGTGTGCTGAATGTGCTCCGCCACTGGGTACCAAGCACACCCAGGA
CTTTGATACCGACGATACGCTCAAATACAGGGTGTGCTTCTGGAGGAGTGCATGCATGACCCAGAC
AACATAGCATGCTGGAAGAAGTCACTACTGATGACGGAGGGTGTGAAGACTGAGCCCTTCGAAAACCC
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TTCTTTGGCCAGGGCTGGATGAAGGCCGAGAAGTATGAAAGGACACCTTACATTATGAAAACCCAAAAC
ACTTCAACCATGTGAGTAACTTCAATGCTTCCAGAAATTATCCGAAACGAGGACATCAGCGCAAGGGCAAG
CGCCATCGAGAAGTGGTGGCTGTGGCCGACATATGTCGCTGCCTGCACAACCTACAATGCTGTGCTGGAG
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TTTGAGAAATTTGATCCACCCTGTGCTCCTTACCTGGGGATGTATCTCACCGACTTGGTGTTCATCGAG
GAGGGGACACCAATTACACAGAGGACGGCCTGGTCAACTTCTCCAAGATGAGAATGATCTCCCATTA
TCCGAGAGATTCGCCAGTTTCAGCAGACTACCTACAAAATCGACCCCGCCAAAGGTAATTCAGTACTT
ACTGGATGAATCTTTCATGTTGGACGAAGAAAGCCTGTATGAGTCTTCGCTCCTAATCGAACCAAAACTC
CCACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011245.1](#), [NM_011245.2](#), [NP_035375.1](#)

RefSeq Size: 4243 bp

RefSeq ORF: 3789 bp

Locus ID: 19417

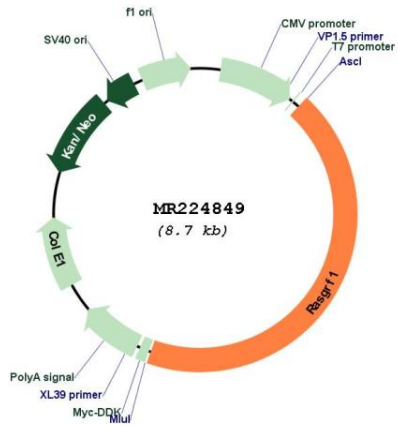
UniProt ID: [P27671](#)

Cytogenetics: 9 47.31 cM

MW: 144.1 kDa

Gene Summary: Promotes the exchange of Ras-bound GDP by GTP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224849