

Product datasheet for **MC219617**

Rasgrp2 (NM_011242) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp2 (NM_011242) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rasgrp2
Synonyms:	Caldaggef1; CDC25L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219617 representing NM_011242
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGAGCACTCTGGACCTGGACAAGGGCTGCACCGTGGAGGAGCTGCTCCGTGGTTGCATCGAAGCGT
 TTGATGACTCCGGAAAGGTGCGAGATCCACAGCTAGTGGCATGTTTCTCATGATGCACCCCTGGTACAT
 ACCTTCCTCTCAGCTGGCTTCGAAACTGCTCCACTTCTATCAGCAATCCCAGGAGGACAACCTCAATTCT
 CTACAGATGAAAACGTGTCACTTGGTCAAGTACTGGATCTCAGCCTCCAGCAGAGTTCGACTTGAACC
 CAGAGCTGGTGAACAGATCAAGGAGCTGAAGGCTCTGTTAGACCAAGAAGGGAACCGCAGGCACAGCAG
 CCTCATCGACATCGAGAGTGTCCCTACCTACAAATGGAAGCGGCAGGTGACCCAGCGGAACCTGTGGAA
 CAGAAAAAGCGCAAGATGTCCTTGTGTTGATCACTTGGAGCCTATGGAGCTGGCAGAACATCTTACCT
 ACCTGGAGTATCGTTCTTCTGCAAGATCTGTTCCAAGACTACCACAGCTTTGTGACTCATGGCTGCAC
 CGTAGACAACCCGGTCTGGAGCGATTCATCTCCCTCTTCAACAGTGTCTCTCAGTGGGTCCAACATCATG
 ATCCTCAGCAAGCCACAGCCACGACGCGGGCGCTGGTATCACGCACTTCGTGCATGTGGCAGAGAGGC
 TGCTGCAGCTGCAGAACTTCAACACGCTGATGGCCGTCGTGGGAGGCCTGAGCCACAGCTCCATCTCAGC
 CCTCAAGGAGACCCACAGCCACGTGAGCCCTGACACCATCAAGCTCTGGGAAGGTCTGACAGAACTAGTG
 ACAGCTACTGGCAACTACAGCAACTACCGGCGCAGGCTGGCAGCCTGCGTGGGCTTCCGCTTTCCTATCC
 TGGGAGTGCACCTCAAGGATCTAGTGGCTCTGCAGCTGGCTCTGCCTGACTGGCTGGACCCAGGTCCGGAC
 CCGGCTCAATGGAGCCAAGATGAGGCAGCTTTCTGCATCTGGAGGAGTTGGCCATGGTGACCAGCCTT
 CGCCACCCGTAACAAGCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCCCTGGATCAGTATCAGACAG
 AGGATGAGCTGTACCAGCTCTCACTGCAGCGAGAGCCACGCTCCAAGTCGTCGCCAACAGCCCAACCCAGC
 CTGCACCCCGCTCCCGGCCCTGTGTTGGAAGAGTGGACCTCAGTTGCCAAGCCTAAGCTGGACCAA
 GCCTTGGTGGCAGAGCACATTGAGAAGATGGTGGAGTCTGTGTTCCGGAACCTTGGAGCTGGATGGGACG
 GTCACATCTCCAGGAGGAGTTTCAGATCATCCGGGGCAACTTCCCTTATCTCAGCGCCTTTGGGGACCT
 GGACCAGAACCAGGATGGCTGCATCAGCCGGGAGGAGATGATTTCTACTTCTGCGCTCCAGCTCCGTG
 CTGGGAGCCGCATGGGCTTCGTACAACTTCCAGGAGAGTAACCTCGCTACGCCGTTGCTGTCCGCT
 ACTGCAAAGCTCTGATCTGGGCATCTACAAGCAGGGCCTTAAATGTAGAGCTTGTGGTGTGAAGTCCCA
 CAAGCAATGCAAAGAGCGCTGTCAAGTGAATGTCGCCGAGGGCCAGAGTGTGAGCCTGGAGGGCTCT
 GCACCTCTCCCTACCCACACATACCCACCATCGGGCCTTCAAGCTTTCCCTGCCTCGCCAGGCAGGC
 GCAGCTCTCGGCCTCCAGAGATCCGTGAAGAGGAGGTGCAGTCCGTGGAGGACGGAGTGTGGATCCCA
 CTTATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_011242
- Insert Size:** 1827 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:

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_011242.2](#), [NP_035372.2](#)

RefSeq Size: 2209 bp

RefSeq ORF: 1827 bp

Locus ID: 19395

UniProt ID: [Q9QUG9](#)

Cytogenetics: 19 A

Gene Summary: Functions as a calcium- and DAG-regulated nucleotide exchange factor specifically activating Rap through the exchange of bound GDP for GTP. May also activates other GTPases such as RRAS, RRAS2, NRAS, KRAS but not HRAS. Functions in aggregation of platelets and adhesion of T-lymphocytes and neutrophils probably through inside-out integrin activation. May function in the muscarinic acetylcholine receptor M1/CHRM1 signaling pathway.
[UniProtKB/Swiss-Prot Function]