

Product datasheet for **MC221698**

Rasgrp1 (NM_011246) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp1 (NM_011246) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rasgrp1
Synonyms:	Rasgrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221698 representing NM_011246
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGAACCTGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTGCCATGGCTCCAGAGCTGGCCCCAAAG
 CAAGACTAGAGGCCAAATCAACCAACAGCCCTCTCCCTGCCAGCCAGCTTGGCCAGATCACCCAGTT
 CCGAATGATGGTGTCCCTGGGACATTTGGCCAAAGGAGCCAGCCCTGGATGATCTTATTGACAGCTGCATT
 CAATCTTTTGTGCGGATGGAAACCTGTGTGCGAATAACCAACTGTTACAAGTCATGCTAACCATGCACC
 GGATCATCATCTCCTCAGCCGAGCTGCTACAAAAAGTCATGAATCTATATAAGGATGCCCTGGAAAAAGAA
 TTCTCCAGGAGTTTGCCTGAAGATCTGCTATTTTGTGAGTATTGGATAACAGAATTCTGGATCATGTTT
 AAGATGGATGCCAGCTTGACCAGCACCATGGAAGAGTTCCAAGACCTGGTAAAGCCAATGGTGAGGAGA
 CCCACTGCCACCTCATCGACACGACCCAAATTAATTCTCGAGACTGGTCCAGGAACTGACTCAGAGGAT
 AAAATCGAATACTAGCAAGAAGCGCAAAGTGTCCCTGCTGTTTGACCATCTGGAACCTGAAGAACTGCT
 GAACACCTCACCTACCTTGAGTTCAAGTCTTCCGACGGATATCTTTCTGATTACCAAAATTACCTTG
 TAAATAGCTGCGTAAAAGAGAACCCACCATGGAGAGGTCCATTGCCCTGTGCAATGGCATCTCCAGTG
 GGTACAACCTGATGGTTCTCAGCCGTCCCACCCGAGCTCCGGGCAGAGGTCTTCATCAAGTTTATCCAT
 GTGGCTCAGAACTCCACCAGCTACAGAACTTCAACACGCTGATGGCTGTGATCGGGGACTGTGTCA
 GCTCCATCTCCAGGCTTAAGGAAACAAGTTCACATGTCCACATGAGATCAATAAGGTTCTGGGCGAGAT
 GACTGAACTGTGCTCCTCCTGCAGAACTATGACAACACAGGCGAGCCTATGGGGAGTGACCCACTTC
 AAAATCCCATACTGGGTGTGCACCTCAAGGACCTCATATCCCTGTATGAGGCTATGCCGACTGCTGCA
 AAGATGGGAAGGTGAATGTCCAAAAGCTCCTGGCCCTTACAATCATATCAATGAATGGTCCAGCTGCA
 GGAGATGGCCCCACCATTGGATGCCAACCAAGACTTGGTGCATCTGCTGACGTTATCCCTGGATCTATAC
 TATACAGAAGATGAAATCTATGAGCTTTCCTATGCCCGGAGCCGAGGAACACAGAGCTCCGCCACTGA
 CACCTTGAAGCCACCAGTTGTAGTAGACTGGGCTCTGGAGTGTCTCCCAAACCTGACCCAAAGACCAT
 CAGCAAACACGTCCAAAGGATGGTGGATTCTGTCTTAAAGAACTATGATCTCGACCAGGATGGCTATATC
 TCTCAGGAGGAGTTTGAAGATCGCTGCAAGCTTTCATTTTCTTCTGTGTGATGGACAAAGATAGGG
 AAGGCCTCATCAGCAGAGACGAGATCACGGCTACTTCATGAGGGCCAGCTCCATCTATTCCAAGCTGGG
 CCTGGGCTTTCACACAACCTTCAAGAAACCCTTACCTGAAGCCACCTTCTGTGACAACCTGTGCTGGC
 TTTCTCTGGGGCTGATCAAGCAAGGCTATCGCTGTAAGACTGCGGGATGAACTGCCACAAACAGTGCA
 AAGACCTGGTGGTGTTCGAGTGCAAGAAGCGAATCAAGAGCCAGCAATATCCACAGAGAACATCAGCTC
 TGTGGTACCAATGTCCACCCCTTGTCCACTGGGAACCAAGATCTGCTCCATGCACCCGAAGAAGGATCT
 TTCATTTTCCAAAACGGAGAGATTGTGGACCACAGTGAGGAGAGCAAGGATAGGACCATCATGCTCCTCG
 GAGTGTCTCCAGAAAAATTCAGTTCGGCTGAAGAGGACTGTTGCCACAAGAGCACCCAAACAGAATC
 GTTCCCGTGGGTGGTGGCGAGACGACCCTGGTCACTTTGTGCTGTCTTCTCCAAGGAAGTCGGCGCAG
 GGCGCTCTTATGTGCACAGTCCAGCATCTCCATGCCCCAGCCAGCACTGGTCCGAAAGCGGGCATTTCG
 TCAAGTGGGAGAACAAAGAGTCCCTTATAAAACCAAAACCAGAACTTACCTCCGGCTCCGGACCTACCA
 AGAACTGGAACAGGAAATAAATACCCTGAAAGCAGATAACGATGCTCTGAAGATCCAAGTGAAGTACGCA
 CAGAAGAAAATAGAATCCCTGCAGCTTGGGAAAAGCAATCATGTCTTAGCCAGATGGACCACGGTGATA
 GTGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011246
Insert Size: 2388 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:	NM_011246.2 , NP_035376.1
RefSeq Size:	5155 bp
RefSeq ORF:	2388 bp
Locus ID:	19419
UniProt ID:	Q9Z1S3
Cytogenetics:	2 59.19 cM
Gene Summary:	Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. Activates the Erk/MAP kinase cascade. Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras. Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways (By similarity). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses (PubMed:17190838). May also function in differentiation of other cell types. Proto-oncogene, which promotes T-cell lymphomagenesis when its expression is deregulated (PubMed:15829980, PubMed:17210708).[UniProtKB/Swiss-Prot Function]