

## Product datasheet for **MC220374**

### Rasgrp4 (NM\_001174155) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp4 (NM_001174155) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rasgrp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220374 representing NM\_001174155  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACCGAAAGACATCAAAGGAAGTCTCATCAGGAATGCTCTGGGAAGCAGGAGGGCGGGTTCGGT  
 CAGCTCAGGCCCGCCACAAGACGTGCCACCCCGGAAATCAGCAAGGTCATGGCGTCCATGAA  
 TCTGGGAGTGCTGAGTGAGAGCAGCTGCAGCAAGATGAGCTATTGGAGGAATGTATCCGCTGCTTTGAC  
 TCGGCTGGCAGCCTGCGCCGAGGGGACCACATTCTCAAGATGGTCTCACGATGCACAGCTGGGTCTGC  
 CATCCTCAGAGCTCGCTGCCGCTGCTGACTTCGTATCAGAAGGCTGCCAAAGATGCCAAAGAGCTAAG  
 ACAGCTACAGATCTGTTACTTGGTCAGGACTGGCTGACCCATCACCATGAGGCAGTGCACCAGGAACCC  
 CAGCTGGAAGCAGTCATAAGCCGGTTTTGGACACTGTCGCTCAGGAGGGCAACATGGCCAAAGGAGCC  
 TGGGAGATGCCTCCAGCCTGCTAAGTCTGGAGGGCCCGTCCCCACCTCCCATGAGCAGCCAGGCCCT  
 GGGCAAGAAGCGAAAGTGTATTGCTATTCGATCACCTGGAGACAGAGGAGCTGGCACAACACCTCACT  
 TACCTGGAGTTCGGTCTTTCCAGGCTATCACACCCCAAGACCTGCGGGGCTATGTTTTGCAGGGTTCAG  
 TGAGAGGTTGTCCAGCTCTGGAAGTCTGTGGGTCTGAGCAACAGTGTGTCCCGCTGGGTGCAGGTCAT  
 GGTGCTGAGTCTGCTGGGCTGCACAACGTGCCAGGCTCTGGACAAATTCATTCGTGTGGCACAGAGG  
 CTTACCAGCTGCAGAATTTCAACACACTGATGGCGGTACGGGGGGTCTGTGTCAATAGCGCCATCTCCA  
 GACTCAAGGACTCCCACGTTTCTGAGCCCTGACAGCACAAAGGCCCTGCTGGAGCTGACAGAGCTCCT  
 CTCATCCACAACAACTATGCCACTACCGCCACCTGGGCCGGCTGTACTGGCTTCCGGCTGCCAGTA  
 CTGGGTGTGCACCTCAAGGACCTGGTATCTCTATATGAGGCTCATCCAGACAGATTGCCAGATGGCCGCC  
 TGCACCTACCCAAGCTGAATAGCCTCTATCTACGGCTGCAGGAGCTGATGGCGCTCCAGGGACAGCATCC  
 TCCTGCAGTGCCAATGAGGACCTGCTGCACCTGCTGACGCTCTCCCTGGATCTCTTCTACACGGAAGAT  
 GAGATCTACGAGCTTTCTATGCCCCGGAACCAGCTGTCCCAAGAGTCTGCCACCGTCCCCCTTCAAAG  
 CACCAGTGGTGGTAGAGTGGGCCAGGGTGTGACACCAAAGCCAGACAGCGTGACTCTGGGTGAGCATGT  
 GGAACAGCTGGTGGAGTCCGTGTTCAAGAACTACGACCCAGAAGGCCGTGGCTCCATCTCTCTGGAGGAC  
 TTTGAGCGGTGTGAGGCAACTCCCGTTCGCTGCCATGGGCTTCAACCCACCTCCCCGCCATGGGAGTG  
 GCTCCTCAGCAGAGAGGAGCTGACCAAGTACCTGCTCCATGCCAGTCCATCTGCTCCAAGCTGGGCCCT  
 GGCCTTCTGCACGCCTCCAGGAGTCCACTTCCGAAAGCCACGTTCTGTGACAGCTGCAGCGGCTTC  
 GTGAGCACTGGCCCTCTCTGGGGGTACCAAGCAAGGCTATCGCTGTGGGACTGTGGGTGTGTTGTC  
 ACAGACACTGCAGGGATCAAGTGAAGTGGAGTGTAAAGAGAGGCCAGAGACTAAGGGTACCCGGGCC  
 CCCAGGTGCACCTGTGCCAGCCACATCACTTCTCCTGCCAACTGTGGCTCAGAGGAAAGTCTCTCTAT  
 ACACTCTCCCGGATCCGGAGTCTGTTGCCACCTTCGCCATGCTTGGACCCAGACGGAATCCTCACACT  
 CTTCTGGGAGCCAGAGGTGGTCCCTGCCAGCACGGTCTTACCATCCAGAGCTTCTCGAAGCCAG  
 CGTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001174155
- Insert Size:** 2037 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\\_001174155.1](#), [NP\\_001167626.1](#)

**RefSeq Size:** 4636 bp

**RefSeq ORF:** 2037 bp

**Locus ID:** 233046

**UniProt ID:** [Q8BTM9](#)

**Cytogenetics:** 7 B1

**Gene Summary:** Functions as a cation- and diacylglycerol (DAG)-regulated nucleotide exchange factor activating Ras through the exchange of bound GDP for GTP. May function in mast cells differentiation.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.