

## Product datasheet for **RN214269**

### **Rasgrp2 (NM\_001082977) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rasgrp2 (NM_001082977) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rasgrp2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214269 representing NM\_001082977  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGAGCACTCTGGACCTGGACAAGGGTTGCACCGTGGAGGAGCTGCTCCGTGGCTGTATCGAAGCCT  
 TTGATGACTCTGGAAAGGTGCGAGATCCACAGCTAGTGGCATGTTTCTCATGATGCACCCTGGTACAT  
 ACCTTCCTCTCAGCTGGCTTCGAAACTGCTCCACTTCTATCAGCAATCCCGGAAGGACAACCTCAATTCC  
 CTACAGGTGAAAACCTGTACCTGGTCAGTACTGGGTCTCAGCCTCCAGCAGAGTTCGACTTGAACC  
 CAGAGCTGGTGAACAGATCAAGGAGCTGAAGGCTCTGTTAGACCAAGAAGGAAACCGCAGGCACAGCAG  
 CCTCATCGACATCGAGAGTGTCCACCTACAAGTGAAGCGGCAGGTGACCCAGCGGAACCTGTGGAA  
 CAGAAAAAGCGCAAGATGTCCCTGTTGTTGATCACTTGGAGCCTATGGAAGTGGCAGAATCTCACCT  
 ACTTGGAGTATCGGTCTTCTGCAAGATCTGTTCCAGGACTATCACAGCTTTGTGACTCATGGTCGCAC  
 TGTAGACAATCCGGTCTGGAGCGATTCATCTCCCTTTCAACAGTGTCTCTCAGTGGGTCCAACATCATG  
 ATCCTCAGCAAGCCACAGCCACGACGCGGGCGCTGGTCATCACACATTCGTCGATGTGGCAGAGAAGC  
 TGCTGCAGCTGCAGAACTCAACACGTTGATGGCCGTCGTGGGAGGCCTGAGCCACAGCTCCATCTCAGC  
 CCTCAAGGAGACCCACAGCCATGTACGCCCTGACACCATCAAGCTCTGGGAAGGTCTGACAGAACTAGTG  
 ACAGCTACTGGCAACTACAGCAACTACCGGCGAAGGCTGGCGGCCTGCGTGGGCTTCCGCTTTCCTATCC  
 TGGGTGTGCACCTCAAGGATCTAGTGGCTCTGCAGCTGGCTCTGCCTGACTGGTGGACCCAGGTCCGGAC  
 CCGGCTCAATGGAGCCAAGATGAGGCAGCTTTTCAGCATCTGGAGGAGTTGGCTATGGTGACCAGTCTT  
 CGACCACAGTGAAGCCAACCCGACCTGTGAGTCTGCTCACGGTGTCCCTGGACCAGTATCAGACGG  
 AGGATGAGCTGTATCAGCTCTCTCTGCAGCGAGAGCCAGTTCCAAGTCAATCGCCACAGCCACCAG  
 CTGCACCCCGCCTCCCGCGCCGCTGTGCTGGAAGAGTGGACCTCAGTTGCCAAGCCTAAGCTGGACCAA  
 GCCTTGGTGGCCGAGCACATTGAGAAGATGGTGGAGTCTGTGTTCCGGAACCTTGACGTTGATGGGGACG  
 GTCACATCTCCAGGAGGAGTTCAGATCATCCGGGGCAACTTCCCTTATCTCAGCGCCTTTGGGGACTT  
 GGACCAGAACCAGGATGGCTGCATCAGCCGCGAGGAGATGATCTCCTACTTCTGCGCTCCAGCTCGGTG  
 CTGGGAGGCCGATGGGCTTCGTACACAACCTCCAGGAGAGTAACCTCGCTAAGGCCGGTCCGCTGCCGAC  
 ACTGCAAAGCTCTGATCTGGGCATCTACAAGCAGGGCCTCAAATGTAGAGCTTGTGGTGTGAAGTCCCA  
 CAAGCAGTGCAAAGACCGACTGTCAAGGAAATGTCGCCGCCGCGCCAGAGTGTGAGCCTGGAGGGCTCT  
 GCACCCTCTCCCTCACCCACACATACCCACCATCGGGCCTTCAGCTTCTCCCTGCCTCGCCAGGCAGGC  
 GCAGCTCTCGGCCTCCAGAGATCCGTGAAGAGGAGGTGCAGACTGTGGAAGATGGTGTTCGACATCCA  
 CTTATAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001082977
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001082977.1</a></u> , <u><a href="#">NP_001076446.1</a></u>
<b>RefSeq Size:</b>	2228 bp
<b>RefSeq ORF:</b>	1827 bp
<b>Locus ID:</b>	361714
<b>UniProt ID:</b>	<u><a href="#">P0C643</a></u>
<b>Cytogenetics:</b>	1q43
<b>Gene Summary:</b>	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]