

## Product datasheet for **RN202861**

### Rasgrf2 (NM\_053721) Rat Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Rasgrf2 (NM_053721) Rat Untagged Clone  |
| Tag:                      | Tag Free  |
| Symbol:                   | Rasgrf2   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| Fully Sequenced ORF:      | >RN202861 representing NM_053721<br>Red=Cloning site Blue=ORF Orange=Stop codon |

CTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCCG  
GCC

ATGCAGAAGAGCGTGGCTACAACGAGGGGCACGCCCTGTACCTGGCCTTCTGGCGCGCAAGGAGGGCA  
CCAAGCGCGTTTCTGAGCAAAAAGGCTGCCGAGGCGAGCCGCTGGCACGAGAAGTGGTTCCGCTCTCTA  
TCAGAATGTGCTTTTTACTTCGAAGGCCAACAGAGCGGCCGCCAGCGGGCATGTACCTCCTAGAGGGC  
TGCAGCTGTGAGCGGACGCCGCCACCAAGGACCAACGCAGGACCCGAGGCGCCGGGACGCGCTGG  
ACAAACAGTATTACTTCACTGTCTTTTTGGTCACGAAGGTGAGAAACCCTGGAGCTGCGCTGTGAGGA  
GGAGCAAGCAGGGAAAGAGTGGATGGAGGCCATTACCAAGCCAGTTACGCAGACATTTTGATTGAGAGG  
GAAGTGTAAATGCAAAAGTACATTCATCTAGTTTACAGATTGTGGAGACAGAAAAAATTGCTGCTAACCAAC  
TCCGACATCAACTCGAAGATCAAGATACCGAAATTGAAAGACTTAAATCAGAGATTGTTGCTCTTAATAA  
GACCAAGGAACGGATGCGCCCGTATCATACCCATCAAGAGGAGGAGGATCCAGACATCAAGAAGATCAAG  
AAGGTTCAAGCTTTCATGAGAGGGTGGCTGTGCAGGAGGAAGTGAAGACCATCGTTCAGGACTACATTT  
GTTCCCCCATGCTGAGAGCATGAGGAAGAGGAACCAGATTGCTTCCAGATGGTGGAGGCCGAGTCAGA  
ATATGTGCACCAGCTCTACATCCTGGTGAACGGTTTTCTCAGGCCTCTGCGCATGGCAGCCAGCTCCAAG  
AAGCCCCCATTAGCCATGATGATGTCAGCAGCATTTTCTCAACAGTGAACAATCATGTTTCTTCATG  
AAATATTCATCAAGGTCTAAAGGCAAGGCTGGCAAAATTGGCCCACTTTGGTTTTAGCTGATCTCTTTGA  
TATTTTGTGCTGCTATGCTCAACATTTATCAAGAATTTGTGCGTAATCATCAGTACAGCCTCCAAGTACTT  
GCCAAGTGAAGCAAAATAGAGATTTTGACAAGCTCTAAAGCAGTATGAAGGCAACCCTGCCTGTGAGG  
GAAGGATGCTGGAGACATTTCTGACTTACCCAATGTTTCAGATCCCCAGGTATATCATCACGCTGCACGA  
ACTCCTGGCTCACACCCCATGAACACGTGGAGAGGAAAAGTCTGGAGTTGCTAAGTCAAAGCTGGAG  
GAACTGTCCAGAGTGTGCACGACGAAGTCAGTGACACCGAAAACATACGGAAAAATCTTGCCATTGAGA  
GGATGATCGTGGAGGGCTGCGACATTTTGTAGACACCAGTCAAATTTTCATCCGACAAGGTTCTCTTAT  
CCAAGTACCTTGTGGAGAGGGGAAACTCAGTAAAGTCCGCTGGGCTCCCTGCTTTGAAAAAGGAA  
GGCGAGAGACAATGTTTCTTATTACGCAAGCACTTTCTGATCTGTACCCGAAGTTACAGGAGAAAAGCTTC  
ATTTGCTCAAGACAGGTGGGTTCTCTCCCTATTCAAGTGTACGTTGATTGAGGAGCCGGACACAAGTGA



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TGATGACACCAAAGGTCCTGGTCACATGTTCCGGACATCTGGATTTAAAAATCGTCGTGGAGCCTCCTGAT  
 GCTGCCCCGTTCACTGTGGTCTTGTAGCACCTTCGCGCCAGGAGAAGGCTGCCTGGATGAGCGACATCA  
 GCCAGTGCCTGGACAATATCCGATGCAATGGATTGATGACTATAGTCTTCGAAGAGAATTCTAAAGTTAC  
 TGTGCCCCATATGATAAAGTCTGATGCCCGTCTTCATAAAGACGACACTGACATCTGTTTCAGTAAAACA  
 CTCAATTCTGCAAAGTGCCCCAGATCCGCTACGCCAGCGTGGAGCGCCTCTTGGAGCGGTTGACGGATT  
 TGCGGTTTTCTGAGCATCGATTTCCCTCAACACCTTCCTGCACACCTACCGCATTTTCACCACGGCTGCCGT  
 AGTGCTGGGAAGCTCTCCGACATCTACAAGAGGCCTTTCACCTCCATTCTGTGAGTCACTAGAGTTA  
 TTTTTTGGCACGAGCCAGAACAACAGAGAACATTTGGTCGATGGAAAATCCCCACGTCTTTGTCCGAAGT  
 TCTCTTCCCCACCTCCCCTGGCTGTATCCAGAACGTCCTCCCCAGTGAGGGCCAGAAAGCTGTCTTTGAC  
 ATCTTCTTGAAGTCAAGGATCGGAGCCTTGGACCTGACTACATCCTCATCTTCCAGTAGTCCCACCACC  
 ACTGTCCACAGTCTGTGCGTCCCCACCCTCACACTGCTGTCCAGAGTCTGCACCAGCCGACCCGAG  
 CAGGAGACTCCACAGACATGTCACCTTGTAGATCTCCCTCAACCCTCCCCGGCACCTCCGATATCGCCA  
 GCCTGGAGGACAGGTAGCTGACAGCACCCTGTGCTGTTTACCTGCTTCTGCTTTTGGCATCGCCACA  
 GCAGCAGCAGGACATGGGAGTCCGCCAGGATTTAACAACGAGAGGACATGTGACAAGGAGTTCATCATA  
 GGAGAACAGCCACCAATCGAGTCTGAATGTCTCCGCCACTGGGTTTTCAAAGCACTCACAGGATTTTGA  
 ACTCAATAATGAACTCAAATGAATGTTCTGAACTTGCTAGAAGAAGTCTACGAGACCCGGACCTCTT  
 CCTCAAGAAAGGAAGCCACGGCGAACATCCTGAGGGCTCTTTCACAAGATGATCAAGATGACATCCACC  
 TAAAATTAGAGGATATAATTCAAATGACAGACTGTCAAAGGCCGAGTGCTTTGAGACATTGTGACCCAT  
 GGAGCTGGCTGAGCAGATCACTCTCCTGGACCACATTGTTTTCAGAAGCATCCCCATGAAGAGTTTCTT  
 GGGCAGGGCTGGATGAAGCTGGATAAAAACGAAAGGACTCCTTATATCATGAAAACCAGCCAGCACTTCA  
 ATGAGATGAGTAACTGGTGGCTCCCAGATAATGAATTATGCTGACATCAGTCCCGTGCCAATGCCAT  
 TGAGAAGTGGGTAGCAGTGGCGGACATCTGCCGATGTCTACACAACACTACAATGGTGTGCTGGAGATCACC  
 TCGGCCTTAAACAGAAGTGCCATCTACAGGCTGAAGAAAACCTGGACCAAGGTGTCCAAGCAGACAAAAG  
 CTCTGATGGACAAACTTCAGAAGACTGTCTCGTCTGAAGGAAGATTTAAAAACCTCAGAGAACTCTCAA  
 AACTGTAACCCCCAGCTGTCCCTTACCTTGGGATGTACTTGACAGACCTGGCATTCTTGAAGAAGGG  
 ACACCGAACTTTACCGAAGAAGGCCTTGTCAATTTCTCCAAAATGCGAATGATATCACACATCATTCGTG  
 AGATACGCCAGTTCAGCAGACCGCTTACCGCATAGACCAGCAGCCAAAGGTCATAACAATACCTGCTTGA  
 CAAAGCCCTTGCATAGATGAAGATACACTCTATGAGCTGTCACTCAAATTTGAACCTCGACTCCCTGCT  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Ascl-Mlul
- ACCN:** NM\_053721
- Insert Size:** 3573 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\\_053721.1](#), [NP\\_446173.1](#)

**RefSeq Size:** 3573 bp

**RefSeq ORF:** 3573 bp

**Locus ID:** 114513

**UniProt ID:** [Q99JE4](#)

**Cytogenetics:** 2q12

**Gene Summary:** human homolog is involved in stimulating the conversion of the GDP-bound form of Ras into the active form [RGD, Feb 2006]