

## Product datasheet for **RN217561**

### Rasgrf1 (NM\_001170531) Rat Untagged Clone

#### Product data:

|                      |  |
|----------------------|--|
| Product Type:        | Expression Plasmids  |
| Product Name:        | Rasgrf1 (NM_001170531) Rat Untagged Clone  |
| Tag:                 | Tag Free   |
| Symbol:              | Rasgrf1  |
| Synonyms:            | GNRP; P140 RAS-GRF   |
| Vector:              | pCMV6-Entry (PS100001)   |
| E. coli Selection:   | Kanamycin (25 ug/mL)   |
| Cell Selection:      | Neomycin   |
| Fully Sequenced ORF: | >RN217561 representing NM_001170531<br>Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGAAAGCCATCCGACTGAACGATGGCCACGTCGTGTCCTGGGACTGCTGGCCAGAGAGACGGCA  
CGCGCAAAGGCTACCTGAGCAAGAGGAGTTCGGACAACCCAAAATGGCAAACCAAGTGGTTTGCCTGCT  
GCAGAACCTGCTCTTCTACTTCGAAAGTACTCGAGCTCTCGGCCCTCGGGGCTCTACCTGCTGGAGGGC  
AGTATCTGCAAACGCATGCCCTCCCCAAGCGAGGGACCTCCTCCAAGGAGTCCGACAAACAGCATTATT  
ACTTCACAGTGAACCTTCCAATGACAGCCAGAAGTCCCTAGAGCTGAGGACCGATGACTCCAAGGACTG  
TGACGAGTGGGTGGCAGCGATTGCTCGCGCCAGCTACAAGATACTGGCCACAGAGCATGAGGCGCTCATG  
CAGAAGTACCTGCACCTGCTGCAGGTGGTGGAGACAGAGAAGACCGTGGCTAAGCAGCTGCGACAGCAGC  
TCGAGGATGGCGAGGTGAGATCGAGCGCCTGAAGGCAGAGATTGCAAACCTGATCAAGGACAATGAACG  
TATCCAGTCCAACCAGCTGGTTGCCCTGAGGATGAGGACAGTACATCAAGAAAATTAAGAAGGTACAG  
AGTTTCTTTCGCGGATGGCTGTGCCGGCAAAGTGGAAAGAACATCATCCAGGACTACATCCGGTCTCCTC  
ATGCCGACAGCATGCGCAAGAGGAACAGGTGGTGTTCAGCATGCTGGAAGCTGAGGCCGAGTACGTGCA  
GCAACTACACATCCTTGTCAACAATTTTCTGCGCCCACTGCGCATGGCCGCCAGCTCTAAGAAACCCCT  
ATAACACATGACGACGTGAGCAGTATCTTTCTGAACAGTGAACCATCATGTTTCTGCACCAAGATCTTCT  
ACCAAGGCTGAAGGCCGATCGCCAGCTGGCCACCCTGGTTCTGGCGGACCTGTTTCGACATCCTGCT  
GCCAATGCTTAACATCTACCAGGAGTTCGTCGCAACCACAGTACAGTCTCCAGATCCTAGCACACTGC  
AAGCAAACCGGGACTTTGACAAGCTCCTCAAGCAGTATGAGGCCAAGCCAGACTGCGAGGAGCGCACAC  
TGGAGACCTTCTCACCTATCCAATGTTCCAGATCCCCAGGTACATCCTGACACTCCATGAGCTGCTGGC  
CCACACACCTCATGAGCATGTGGAGCGCAACAGCCTGGACTATGCCAAATCCAACTAGAGGAGCTGTCC  
AGGGTCATGCACGACGAAGTCAGTGAGACCGAGAACATCCGCAAAACCTGGCCATTGAGCGTATGATCA  
CCGAGGGCTGTGAGATCCTCCTTGACACCAGCCAGACCTTTGTGCGCCAAGGTTCCCTCATCCAGGTGCC  
CATGTGCAGAAAAGGGCAAGATCAACAAGGGCCGCTGGGGTCTCTGTCCCTTAAGAAAGAAGGTGAGCGC  
CAGTGTTCCTGTTCTCCAAGCATCTCATCTGACACAGAGGCTCTGGTAGCAAACCTGCACCTAACCA



AGAATGGCGTGATTTCCCTCATTGACTGCACTCTACTGGATGATCCAGAAAACATGGATGATGACGGCAA  
 AGGACAAGAGGTAGATCACCTGGACTTTAAGATTTGGGTGGAGCCAAAGGATTCACACCTTCACAGTC  
 ATCCTGGTGGCCTCATCCAGGCAGGAGAAGCGGCATGGACCAGTGACATCATCCAGTGCCTGGATAATA  
 TCCGCTGCAACGGGCTCATGATGAATGCCTTTGAAGAAAATCCAAGGTCACCGTGCCGACAGATGATCAA  
 GTCTGATGCTTCCCTATACTGTGATGATGTTGACATTCGCTTACGCAAAACCATGAATTCCTGCAAAGTG  
 CTGCAGATCCGCTATGCCAGCGTGGAGCGCCTGCTGGAGCGCCTGACTGATCTTCGCTTCCCTGAGTATTG  
 ACTTTCTCAACACCTTCCCTGCACTCCTATCGAGTCTTACCGATGCTGTGGTGGTCCCTAGACAAGTGAT  
 CAGCATCTACAAAAGCCATCACTGCGATTCCCTGCCAGGTCACTGGAACCTCTGTTCTCCAGTAGCCAC  
 AACACCAAACCTTCTGTACGGAGATGCCCAAGTCGCCTCGTGCCAGCCGCAAGTTCCTCCGCGCCGC  
 CCTTGGCCATCGGCACCTTCGTCCCAGTCCGCCCGGGAAGTTGTCTCTCAACATCCCATCATCACAGG  
 CGGCAAGGCGCTGGAACCTGGCTTCGCTCGGCTGCCCTCCGACGGCTACACCAACATACACTCGCCATA  
 TCTCCCTTCGGCAAAACACGCTGGACACCAGCAAGCTCTGTGTGGCCAGCAGCTTGACCAGAACGCCGG  
 AGGAGATTGATATGACCACTCTAGAGGAGTCATCAGGCTTCAGGAAGCCGACCTCAGACATCTTGAAGA  
 AGAGTCTGATGATGACCAGAGTGTAGACGACACAGAAGTGTCTCCACCAACACCGAAATCATTGAGA  
 AACAGAATCACTCAAGAGTTCCTACTCTTAACTACAACAGTGAATCATGATGACATGTGCGCATCTGA  
 TGACAGTAACCCGAGCCCTCTGTGAGTACCTCTGCCTTTGCCATAGCGACTGCAGGAGCAATGAAAG  
 CCCCAGAAAACAGGAGATATATCGAAGGATGTCTTTGGCCAACACAGGGTATTCTCTGACCAGAGAAAT  
 ATCGACAAAAGAGTTCTGTGATCCGCAGAGCGGCCACCAACCGTGTACTGAATGTGTTGCGCCACTGGGTCA  
 CCAAGCACTCCCAGGACTTTGAACTGACGACCTCCTCAAATACAAGGTGATCTGCTTCTGGAAGAGGT  
 CATGCATGACCCAGACCTTACCACAAGAGCGAAAGGCAGCAGCAACATCATGAGGACTCTGACCCAG  
 GAAGAAATAACTGAAAACCATAGCATGCTGGATGAGCTTACTAATGACGGAGGGTGTGAAGACTGAGC  
 CCTTCGAAAACCACTCAGCCATGGAGATAGCAGAGCAGTACCCTGCTGGATCACCTTGTCTTCAAGAG  
 TATTCTTATGAGGAATCTTTGGCCAGGGCTGGATGAAGGCAGATAAGAATGAAAGGACACCTTACATT  
 ATGAAAACCAACAGACATTTCAACCATATCAGTAACTTGATCGCTTCAGAAATTCCTCGAAACGAGGAGG  
 TCAGTGCAAGGGCAAGCACCATCGAGAAGTGGTGGCTGTTGCCGACATTTGCCGCTGCCTGCACAATA  
 CAATGCTGTGCTGGAGATCACTTCTCCATCAACCGCAGCGCAATCTTCCGACTCAAGAAGACATGGCTC  
 AAAGTTTCTAAGCAGACGAAATCTGTGTTGACAAGCTCCAAAAGCTTGTGTCATCAGATGGCCGATTTA  
 AGAACCTCAGAGAACTTTGCGAAATGTGATCCACCCTGTGTCCTTACCTGGGGATGTACCTGACCGA  
 CTTGGCATTCTCGAGGAAGGAACACCAATTACACAGAGGACGGCCTGGTCACTTCTCCAAGATGAGG  
 ATGATCTCCATATTATCCGCGAGATTCGCCAGTTTCAGCAGACTACTTACAAAACGAGCCCCAGCCAA  
 AGGTAACCTCAGTACTTAGTGGATGAAACCTTTGTGTTGGACGACGAAAGTCTGTATGAGGCTCCCTCCG  
 AATTGAACCAAACTCCCACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_001170531

**Insert Size:**

3735 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).

**OTI Annotation:**

Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001170531.1](#), [NP\\_001164002.1](#)

**RefSeq Size:** 4226 bp

**RefSeq ORF:** 3735 bp

**Locus ID:** 192213

**UniProt ID:** [P28818](#)

**Cytogenetics:** 8q31

**Gene Summary:** a paternally expressed imprinted gene [RGD, Feb 2006]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).