

## Product datasheet for **SC327103**

### **RASGRP 4 (RASGRP4) (NM\_001146207) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RASGRP 4 (RASGRP4) (NM_001146207) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGRP 4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC327103 representing NM\_001146207.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAACAGAAAAGACAGTAAGAGGAAGTCCCACCAGGAATGCACCGAAAAATAGGAGGGCGAGGCCGG
CCCCGCCAAGTGGCGCCGCAACAAGACATGCCCCAGCCCTCGGAAATCAGCAAGGTCATGGCTTCCATG
AACCTGGCCTGCTGAGTGAGGGCGGCTGCAGCGAAGATGAGCTGCTGGAGAAATGCATCCAGTCCCTT
GATTCAGCTGGCAGCCTGTGCCACGAGGACCACATGCTCAACATGGTGTGGCCATGCACAGCTGGGTG
CTGCCGTCGCCGACCTGGCTGCCCGCCTGCTGACCTCATACCAGAAGGCCACAGGGGACACCCAGGAG
CTGAGACGGCTGCAGATCTGTACCTGGTCAGGTACTGGCTGATGCGACACCCTGAGGTGATGCACCAG
GATCCCCAGCTAGAAGAAGTCATAGGTCGTTTCTGGGCCACCGTGGCCCGGAGGGCAACTCAGCCAG
AGAAGACTGGGAGACTCTTCTGACCTCCTGAGCCCTGGTGGCCCTGGCCCCACTCCCAATGAGCAGC
CCAGGCCTGGGCAAAAAGCGAAAGTGCCTTGTCTTTTCGACCACTTGGAGACGGGGAGCTGGCTCAG
CACCTCACCTACCTGGAGTTCGGTCTCCAGGCTATCACGGCCCTCCTGGAGCTCACTGAGCTCCTT
GCCTCCCAACAACACTAGCCCGCTACCGCCGACCTGGGCTGGCTGCGCGGGTTTCCGGCTGCCTGTA
CTGGGCGTGCACCTCAAGGACCTGGTGTCCCTGCATGAGGCACAGCCCGACAGGTTGCCTGACGGCCG
CTGCACCTACCCAAGCTGAACAACCTCTACCTGCGGCTGCAGGAGCTGGTGGCCCTCAAGGGCAGCAT
CCACCCTGCAGCGCAATGAGGATCTGTGCACCTGCTCACGCTCTCCCTGGACCTTTCTACACGGAA
GACGAGATCTATGAGCTTCTTATGCCCGGGAGCCGCTTGTCCCAAGAGCCTGCCACCCTCCCCCTT
AATGCACCTCTGGTGGTGGAGTGGGCCCTGGTGTGACACCAAGCCGGACAGGGTCACACTGGGTGG
CATGTGGAGCAGCTGGTGGAGTCTGTGTTCAAGAATTATGACCTGAAGCCGAGGAACAATCTCTCAG
GAGGACTTGGAGGACTCTCGGCAATTTCCCTTCGCTGCCATGGGCTTACCCACCCCCACGCCAG
GGGAGAGATCCTTCAGCAGAGAGGAGCTGACAGGGTACCTGCTCCGGGCCAGCGCCATCTGCTCCAAG
TTGGGCTGCGCTTCTGACACCTTCCATGAGGTCACCTTCCGAAAGCCTACCTTCTGCGACAGCTGC
AGTGGCTTCTCTGGGTGTACCAAGCAAGGCTACCGCTGTGCGGAGTGCGGGCTGTGTTGCCAAAA
CACTGCAGAGACCAGGTGAAGGTAGAATGTAAGAAGAGGCCAGGGGCCAAGGGGATGCAGGACCCCC
GGAGCTCTGTCCATCCACACCAGCTCCCATGCCAGCTGTGGCTCCGAGGAAAATCACTCCTACACG
CTATCCCTGGAGCTGAGACTGGGTGCCAGCTTCGCCATGCCAGCTGGTGGACCCAGACTGAATCCCCACCCCT
TCCTGGGAAACAGATACGGTCCCTGCCGGTGTGGACCCACCATCAACTGCATCTCCAAGCTGGAT
TCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001146207
- Insert Size:** 1731 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001146207.1](#)

**RefSeq Size:** 2944 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 115727

**UniProt ID:** [Q8TDF6](#)

**Cytogenetics:** 19q13.2

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway

**MW:** 64.3 kDa

**Gene Summary:** The protein encoded by this gene is a member of the Ras guanyl nucleotide-releasing protein (RasGRP) family of Ras guanine nucleotide exchange factors. It contains a Ras exchange motif, a diacylglycerol-binding domain, and two calcium-binding EF hands. This protein was shown to activate H-Ras in a cation-dependent manner in vitro. Expression of this protein in myeloid cell lines was found to be correlated with elevated level of activated RAS protein, and the RAS activation can be greatly enhanced by phorbol ester treatment, which suggested a role of this protein in diacylglycerol regulated cell signaling pathways. Studies of a mast cell leukemia cell line expressing substantial amounts of abnormal transcripts of this gene indicated that this gene may play an important role in the final stages of mast cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Transcript Variant: This variant (g) lacks an alternate in-frame segment compared to variant a. The resulting isoform (g) has the same N- and C-termini but is shorter compared to isoform a.