

## Product datasheet for **SC310169**

### **RASGRP3 (NM\_170672) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RASGRP3 (NM_170672) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGRP3
Synonyms:	GRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310169 representing NM\_170672.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATCAAGTGGCCTTGGGAAAGCAGCAACATTAGATGAACTGCTGTGCACTGCATTGAGATGTTT
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TCTTCCACTGAATTGGCAGAAAACTTCTCTGCATGTATCGAAATGCCACTGGAGAAAGCTGCAATGAA
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ACGGTCATCAACAAGCACATAAGGAAATTAGTGGAGTCTGTATTTAGAAACTATGATCACGACCATGAT
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CTGGACAAAGATCAGGATGGCCTAATTAGTAAAGATGAAATGATGGCTTACTTCTGAGAGCTAAATCC
CAACTACACTGTAATAATGGGACCAGGATTTATCCATAATTTTCAGGAGATGACCTATCTCAAGCCAACC
TTCTGCGAACACTGTGCGGGATTTCTCTGGGCATAATCAAGCAAGGATACAAATGCAAAGACTGTGGA
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TTCCCTGGAGTCACTGCTGGACACAGGGATTTAGACAGCAGAGCCATCACACTGGTTACAGGCTCTTCT
CGCAAGATCTCTGTGAGGCTACAGAGGGCCACCACCAGCCAGGCCACCCAGACTGAACCTGTCTGGTCA
GAGGCTGGCTGGGGGACTCGGGGTCCCACACCTTCCCTAAAATGAAATCCAAGTTCCATGACAAAGCA
GCAAAGGACAAAGGCTTTGCCAAATGGGAAAATGAGAAGCCAGGGTGCATGCTGGTGTGGATGTTGTA
GACCGGGGCACGGAGTTTGAAGTACCAGGATGAAGGAGAAGAGACCAGACAGGATGGTGGAGGATGGC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_170672

**Insert Size:** 2073 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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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>	<a href="#">NM_170672.2</a>
<b>RefSeq Size:</b>	4711 bp
<b>RefSeq ORF:</b>	2073 bp
<b>Locus ID:</b>	25780
<b>UniProt ID:</b>	<a href="#">Q8IV61</a>
<b>Cytogenetics:</b>	2p22.3
<b>Domains:</b>	RasGEFN, RasGEF, EFh, DAG_PE-bind
<b>Protein Pathways:</b>	B cell receptor signaling pathway, MAPK signaling pathway
<b>MW:</b>	78.3 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a guanine nucleotide exchange factor that activates the oncogenes HRAS and RAP1A. Defects in this gene have been associated with systemic lupus erythematosus and several cancers. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 4-6 all encode the same isoform (1).</p>