

## Product datasheet for **SC323200**

### **RASGRP1 (NM\_001128602) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RASGRP1 (NM_001128602) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASGRP1
Synonyms:	CALDAG-GEFI; CALDAG-GEFII; IMD64; RASGRP
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001128602, the custom clone sequence may differ by one or more nucleotides

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ATGGGCACCCTGGGCAAGGCGAGAGAGGCTCCGCGGAAACCTTCCCATGGCTGCAGAGCT
GCCTCTAAAGCAAGACTAGAGGCCAAAGCCAGCCAACAGCCCTTCCCCTCCCATCCCAGC
TTGGCCCCACATCACCCAGTTCGGAATGATGGTGTCTCTGGGACATTTAGCCAAAGGAGCC
AGCCTGGACGATCTCATTGACAGCTGCATTCAATCTTTTATGATGCAGATGGAAACCTGTGT
CGAAGTAACCAACTGTTGCAAGTCATGCTGACCATGCACCGAATTGTCATCTCCTCTGCA
GAACTGCTCCAAAAGTTATCACCCCTCTATAAGGATGCTTTGGCAAAGAATTCACCAGGA
CTTTGCCTGAAGATCTGTTATTTTGTAAAGTATTGGATAACAGAATTCTGGGTCATGTTT
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GGTGAGGAGTTACATTGCCGCTGATTGACACAACTCAAATCAATGCCCGTGACTGGTCC
AGGAACTTACTCAAAGGATAAAATCAAATACCAGCAAGAAACGGAAAGTCTCCCTGCTC
TTTGACCATCTGGAACCAGAAGAGCTATCCGAGCACCTCACCTACCTTGAGTTCAAGTCT
TTCCGGAGGATATCGTTCTGATTATCAGAATTACCTTGTAATAGCTGTGTGAAGGAA
AACCCACCATGGAGCGATCTATTGCTCTGTGCAACGGCATCTCCAGTGGGTACAACCTG
ATGTTTCTCAGCCGCCCCACGCCGAGCTCCGAGCAGAAGTCTTATCAAGTTTATCCAG
GTGGCTCAGAAGCTCCACCAACTACAGAACTTCAATACACTGATGGCTGTGATAGGTGGG
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CGGCGAGCCTATGGAGAGTGACCGACTTCAAGATCCCCATTCTGGGTGTGCATCTCAAG
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CATAAGCTACTGGCCCTATACAATCATATCAGTGAATTGGTCCAGCTGCAAGAGGTGGCC
CCACCCTTGGAGGCTAACAAGGACTTGGTACACTTGTGACGTTATCCCTGGATCTTTAC
TACACTGAGGATGAAATCTATGAGCTTTTCTATGCCCGGAACCAAGGAACACAGAGCT
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CTCATCAGCAGGGATGAGATCACAGCCTACTTCATGAGAGCCAGCTCAATCTATTCCAAG
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GACAACTGTGCTGGATTTCTCTGGGGAGTGATCAAACAAGGATATCGATGTAAGACTGC
GGGATGAACTGTCACAAACAATGCAAAGATCTGGTTGTGTTTGTGTAAGAAGCGAGCC
AAGAACCAGTAGCTCCCACAGAGAACAACACTTCTGTGGGGCCAGTGTCCAACCTTTGC
TCATTGGGAGCCAAAGATCTGCTCCATGCACCTGAGGAAGGACCTTTTACATTCCCTAAT
GGGGAGGCTGTGGAACATGGTGAGGAGATAAGGATCGGACCATCATGCTGATGGGAGTG
TCCTCACAGAAGATTTCTTTCGGCTGAAGAGGGCTGTTGCCACAAGGCCACCCAGACT
GAATCACAGCCTTGGATTGGCAGTGAGGGCCCTTCCAGTCCCTTTGTGCTGTCTTCCCCA
AGGAAGACAGCCAGGATACTCTATATGTGCTTCCAGTCCCACCTCTCCATGTCTTAGC
CCAGTCTTGGTCAGAAAGCGGGCTTTTGTCAAGTGGGAGAATAAAGACTCCCTCATAAAA
TCAAAGGAGGAGCTCCGTCACCTCAGACTGCCTACCTACCAAGAAGTGGAAACAGGAAATA
AATACTCTGAAAGCAGATAATGATGCCCTAAAGATCCAAGTAAATATGCACAGAAGAAA
ATAGAATCCCTCCAGCTTGA AAAAAGCAATCATGTCTTAGCTCAAATGGAGCAGGGTGAC
TGTTCT
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001128602

**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_001128602.1</a> , <a href="#">NP_001122074.1</a>
<b>RefSeq Size:</b>	4943 bp
<b>RefSeq ORF:</b>	2289 bp
<b>Locus ID:</b>	10125
<b>UniProt ID:</b>	<a href="#">O95267</a>
<b>Cytogenetics:</b>	15q14
<b>Protein Pathways:</b>	MAPK signaling pathway, T cell receptor signaling pathway
<b>Gene Summary:</b>	<p>This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development, homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE). [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2), also known as variant A, lacks an in-frame segment of the coding region, compared to variant 1. It encodes a shorter isoform (b), that is missing an internal segment compared to isoform a.</p>