

## Product datasheet for **SC112652**

### **RASA3 (NM\_007368) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RASA3 (NM_007368) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASA3
Synonyms:	GAP1IP4BP; GAP111
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112652 sequence for NM\_007368 edited (data generated by NextGen Sequencing)

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ATGGCGGTGGAGGACGAGGGGCTCCGGGTCTTCCAGAGCGTGAAGATCAAGATCGGTGAA
GCCAAAACCTTCCCTCTTACCCGGGGCCGAGCAAGATGAGGGATTGCTACTGCACGGTG
AACCTGGACCAGGAGGAGGTTTTTCAGGACCAAAATTGTGAAAAGTCACTCTGCCCGTTT
TACGGAGAAGACTTTTACTGTGAAATTCCTCGGAGCTTTCGTACCTGTCCTTCTACATT
TTCGATAGAGACGTTTTTCCGGAGGGATTCCATCATAGGGAAGGTGCCATCCAGAAGGAG
GACTTGCAGAAGTACCACAACAGGGGACACCTGGTTCCAGCTGCAGCACGTGGACGCTGAC
TCGGAAGTGCAGGGCAAAGTGCACCTGGAGCTGCGGCTGAGCGAGGTCATCACAGACACT
GGGGTCGTCTGCCACAAGCTCGCCACACGCATCGTCGAGTGCCAGGGCCTCCCCATCGTG
AATGGGAATGTGACCCCTACGCCACCGTGACGCTGGCAGGACCCCTCAGATCAGAAGCA
AAGAAGACGAAAGTGAAGAGGAAGACCAACAATCCCCAGTTCGATGAAGTGTATTTT
GAGGTGACCCGGCCCTGTAGCTACAGCAAGAAGTCCCACCTTGACTTTGAGGAGGAAGAC
GTGGACAAGCTCGAAATCAGAGTTGACCTCTGGAATGCCAGTAACCTGAAGTTTGGAGAT
GAATTCCTGGGAGAACTAAGATCCCGTTGAAAGTCTCGGGCAGTCCAGCTCCTACGAG
GGGTGGTACTTCCCTCCAGCCCCGGGACAATGGTAGCAAGAGCCTAAAGCCAGACGACCTG
GGCTCCCTGCGGCTGAACGTGGTATACACGGAAGACCACGTGTTTTCTTCTGACTATTAC
AGCCCTCTGCGGGACCTGCTGTTGAAGTCTGCGGATGTGGAGCCCGTGTGACGCTGCGG
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CTTCTTCTACACTATGGCAGGGTGGTGCCATTCATCAGTGCCATCGCCAGCGCGGAGGTG
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GACGAGACCATGAAGCTGGCGGGGATGCATTACCTGCATGTCACCCTGAAGCCCGCCATC
GAGGAGATATGCCAGAGCCACAAACCCTGTGAAATCGACCCTGTGAAGTTGAAAGACGGA
GAAAACCTTGAAAACAACATGGAGAACCCTACGGCAGTATGTGGACCGCGCTTCCACGCC
ATCACCGAGTCTGGGGTGAAGCTGCCCGACCGTATGTGTGACATCTTCTTCTCCCTCCGG
GAGGCGCGGCCAAGCGCTTCCAGGATGACCCGGACGTCAGGTACACTGCAGTGAGCAGC
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CCGCACCACAGGACCCCGACAGCTCCAGGACGCTGACATTGATCTCAAGACCGTTTCCAG
ACCCTCGGCAGCCTGTCCAAGTCCAATCTGCGAGTTTTAAGGAGTCTACATGGCTACA
TTTTATGAATTCTCAATGAGCAGAAATATGCTGATGCGGTGAAGAACTTCTGGATCTG
ATTTTCGTCCTCGGGGAGAAGAGACCCCAAGAGTGTGAGCAGCCATCGTGCTTAAAGAA
GGGTTTCATGATCAAGAGGGCCCAAGGACGGAAGCGCTTTGGGATGAAGAAATTTAAGAA
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CTCTACAGCATTCCCATCGAGAACATCCTGGCAGTGGAGAAGCTGGAGGAGGAGTCTTTC
AAAATGAAAAACATGTTCCAGGTGATCCAGCCAGAGCGTGCAGTGTACATCCAGGCCAAC
AACTGCGTGGAGGCCAAGGACTGGATCGACATTCTACCAAAGTGAAGCCAGTGAACCCAG
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GCGCCATCCGACTCGGCTCCGGGCTGCTCGCCCTGCACTGGCGGCCCTCCAGCCAACATC
CAGCTGGACATTGATGGGGACCGTGAGACGGAGCGTATCTACTCCCTTCAACTTGTAC
ATGAGCAAGCTGGAGAAGATGCAGGAGGCTGTGGGAGCAAATCTGTGTATGACGGCCCCG
GAGCAGGAGGAGTATTGACGTTTCGTCATTGACGACCCCCAGGAGACCTACAAGACGCTA
AAGCAAGTCATCGCTGGGGTTGGGGCTTTGGAGCAGGAGCACGCCAGTATAAGAGGGAC
AAGTTCAAGAAGACGAAATATGGAAGCCAGGAGCACCCCATCGGAGACAAGAGCTTCCAG
AACTACATCCGGCAGCAGTCCGAGACCTCCACTCATTCCATTTAA

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Clone variation with respect to NM\_007368.2  
1326 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_007368 unedited  
 ATAGGGCGGCCGGAATTCGGCACGAGGCTGAGCTGCCCGGGCTCGGCGCGCCTTGGGG  
 CGAGGCTCGGCGGGCGCGGACGCGCAGCATGGCGGTGGAGGACGAGGGGCTCCGGGTCTT  
 CCAGAGCGTGAAGATCAAGATCGGTGAAGCCAAAAACCTTCCCTTTACCCGGGGCCGAG  
 CAAGATGAGGGATTGCTACTGCACGGTGAACCTGGACCAGGAGGAGGTTTTTCAGGACCAA  
 AATTGTGGAAAAAGTCACTCTGCCCGTTTTACGGAGAAGACTTTTTACTGTGAAATTCCTCG  
 GAGCTTTTCGTACCTGTCTTCTACATTTTCGATAGAGAGCTTTTCCGGAGGGATTCCAT  
 CATAGGGAAGGTGGCCATCCAGAAGGAGACTTGCAGAAGTACCACAACAGGGACACCTG  
 GTTCCAGCTGCAGCACGTGGACGCTGACTCGGAAGTGCAGGGCAAAGTGCACCTGGAGCT  
 GCGGCTGAGCGAGGTATCACAGNACACTGGGGTTCGTCTGCCACAAGCTCGCCACACGCA  
 TCGTTCGAGTCCAGGGCCTCCCCATCGTGAATGGGCAATGTGACCCCTACGCCACCGTGA  
 CGCTGGCAGGACCCTTCCAGATCAGAAGCANAGAAGACGAAAGTGAAGAGGAAGAACCAAC  
 ATCCCCAGTTCGATGAAGTGTATTTTATTTGAGGTGACCCCGCCCTGTAGCTACAGCAAG  
 AAGTCCCCTTTGACTTTGAGGAGGAAGACGTGGNACAGCTCGAAATCAGAGTTGACCTC  
 TGGAAATGCCAGTACCCTGAAGTTTGGAGATGAATTCTGGGAGAATAAGATNCCGTTGAA  
 GTCTGCGGCATCCAGTTCTACCAGGCGTACTTTCTCCAGCCCGGACATGGTACAGA  
 GCCTAACAGACTGNGCTCCTGGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_007368 unedited  
 TAAACATCTGTTTTAATTGGGGCCAGTAAAATACATTGGCAAATCATTAGTATTTTATAA  
 ACAGAAACATTAAGTTATAAATCCATGTTAAAAATTGCAGCTCAGTGCAGCCCCAACAGC  
 TGTGTGCCAAAAGTCTATTTTTACAACATTTTCTCCAGTATTTTGTGACAAGAAAGT  
 TCCTATCTGCCATCTAGATCAAGAGCCTGAACTACAGTATTTTCAACAAGAACCAGGAG  
 AAGTCGGTACAAGGATACGTCTGTGTATTTAAACGGCGCTTCCACACACCTGCCG  
 TCTGCATCCCGGGAGGACGCCCTTTGGGAAAGGCCTCCTCGGCAGTGTGAGGTCTGGAGG  
 GGTCTGCCTGGACCCATTTTTAGGATGCTCCCTCCCAATAAAACAGCAGCCCCGCC  
 CCTGCCCTGCACAGCATCTGGGGTTTATAACACAGGTGCAATACTGACCATGGGCCCTG  
 GAGGGACGTCTGCACCCGAAGCCCTGTACCTCAAACCTCAGAGTTTCTCCCTCTTTG  
 ATTTTCTGGAGGACCTGCAGCTGGCCTTCTGAGACAGGCTCCATTCTGTCCATTTG  
 CTCCCAGCAGCCTTCCCTCTAGTGGGTATAGGTTCTGACGTTCTGAGTTACTTTGTATC  
 AAAGAGCTAATTAATAATGGTTCTTCCACAACATAAAGAAAAACAGCTTGAACCGGTACA  
 TCTTCCTATTTTTAAATCTTCAACCTTCCACGGGGGGTGGCCAATGTTAATTCTGATTT  
 TAAACCCCTTTAACAGCAAACGATGTGGCTTCAACTGTGGGCTTCCGAACACCTGGAG  
 ACCTGGAGCCACCCTTTTCTCCAGGACTCTGGGCAAACCTGTTTCCCCAGCCCAAGCA  
 CTCTCAACTGGACTTTGGGTATCTGCCTCCAGCTTAACGGCCCTATCGGAATAACAACCC  
 GAGGGGACGGGGCCGCTTCTGTTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_007368

**Insert Size:**

4110 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).

<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_007368.2</a> , <a href="#">NP_031394.2</a>
<b>RefSeq Size:</b>	4220 bp
<b>RefSeq ORF:</b>	2505 bp
<b>Locus ID:</b>	22821
<b>UniProt ID:</b>	<a href="#">Q14644</a>
<b>Cytogenetics:</b>	13q34
<b>Domains:</b>	C2, BTK, PH, RasGAP
<b>Gene Summary:</b>	<p>This gene encodes a protein that binds inositol 1,3,4,5-tetrakisphosphate and stimulates the GTPase activity of Ras p21. This protein functions as a negative regulator of the Ras signalling pathway. It is localized to the cell membrane via a pleckstrin homology (PH) domain in the C-terminal region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>