

## Product datasheet for **MG216857**

### Rasip1 (NM\_028544) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rasip1 (NM_028544) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rasip1
Synonyms:	1110025D03Rik; 2610025P08Rik; AI853551; Rain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216857 representing NM\_028544  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGCTATCTGGTGAACGAAAGGAGGGCGGAAGCCCCCGCTTCGGGAAGCTCCATCTTCCAGTGGCCTGT  
 GGATCAATCCCCAAGGAAACAGCTCGCAAACCTGGGGCGGCGCTGGCCAGCGCTGCCTCTGTCAAGTC  
 CTGCTCCTCCGACACGGGGAGCCGAAGCAGCAGCCCTGCCGCCGCCGCCGCCGCCGACGTGGAG  
 CTGCGGCGCGTAGGTGCGGTGAAGGCGGCGGGGAGCGTCGGGCAGCCGAGCCAAGCGCATCTCGCAGC  
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 CGAGAAGAAGCTGCCTGAACTGGCGGGGGTGTAGCTCCGGAGCCCCGTTGCCACGCGTCCCGCGGTG  
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 ACCTGTGGCGCGCCCGTCCGGGCTGGGCGCGGCGCTTTGAGCTGCGCGGCCGCGAGGAGGCTCGACGGCT  
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 GAGGCTGTGCTGTGGAGCTGCGACCACTATACTATGGATGGCCAACACCACAGAGCTGTTGAGCTTTG  
 TACAGGAGAAAGTGTAGAGATGGAGAAGGAGGCTGACCAGGAGGGCCTGTCTCGGACCCACAGCTCTG  
 CAATGACTTGAACTGTGTGATGAGGCCTTGGCCCTCCTGGATGAGGTATCATGTGACTTTCCAGCAG  
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 TGCAGAGCGGGATGCTGTGGACACAGGGGATATCTTTGAAAGTTTTTCTCGACCCTCCGCTCATCTG  
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 GGCTCCGTGCGCTCCTCTGGGATCTTGAACAGCAGGAGCTGCCAGCCAATCATCGCCATGGACCCCGGT  
 GGCTTCGACACCT

**CAAGCTT** AACTAGCTAGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

<b>Protein Sequence:</b>	<p>&gt;MG216857 representing NM_028544  <span style="color: red;">Red</span>=Cloning site <span style="color: green;">Green</span>=Tags(s)</p> <pre> MLSGERKEGGSPRFGKLHLPVGLWINSRKLAKLGRRWPSAASVKSSSDTGSRSSEPLPPPPPPHVE LRRVGAVKAAGGASGSRAKRISQLFRGSGAGGAGGPGTPGGAQRWASEKKLPELAAGVAPEPPLPTRA PPGVKIFASGLASGANYKSVLATERSTARELVAEALERYGLTGGRGAGDSGCVDAYALCDALGRPA GGEWRAEHLRVLADAERPLLVDLWRARPGWARRFELRGREEARRLEQEAFGAADAGTNAPSWRTQKN RSRAASGGAALASPGPGSGSGTPTGSGGKERSENLSLRRSVSELSLQGRRRRQEQERRQALSMAPGA QMVPTDPGDFDQLTQCLIQAPSNRPYFLLLQGYQDAQDFVYVMTREQHVFRGGPSSSRGGSPAPYV DTFLNAPDILPRHCTVRAGPEPPAMVRPSRGAPVTHNGCLLLREAELHPGDLLGLGEHFLFMYKDPR SGSGPARPSWLPARPGAAPPGGWAFSCRLCGRGLQERGEALAYLDGREPVLFRPREEEALLGEIVRA AASGAGDLPLGPATLLALCVQHSARELELGHLPRLGRLARLKEAVWEKIKEIGDRQPENHPEGVPE VPLTPEAVSVELRPLILWMANTTELLSFVQEKVLEMEKEADQEGLSDDPQLCNDLELCDEALALL DEIVMCTFQQSVYYLTKTLYSTLPALLDSNPFTAGAELPGPGAELAMPPLRPTLVGFQAALELTS QCELHPDLVSQTFGYLFFSNASLLNSLMERGQGRPFYQWSRAVQIRTNLDLVDLWLGAGLDIATE FFRKLSTIAVNLLCVPRTSLLKASWSSLRTDYPTLTPAQLHLLSHYQLGPGRGPPPAWDPPAERDA VDTGDIFFSFSHPPLIILPLGSSRLRLTGPVTDALHRELRLRLLWDLEQQELPANHRHGPPVASTP </pre> <p><span style="color: red;">NNNN</span> - GFP Tag - V</p>
<b>Restriction Sites:</b>	Sgfl-HindIII
<b>Cloning Scheme:</b>	□
<b>ACCN:</b>	NM_028544
<b>ORF Size:</b>	2883 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_028544.1</a> , <a href="#">NP_082820.1</a>
<b>RefSeq Size:</b>	3169 bp
<b>RefSeq ORF:</b>	2886 bp

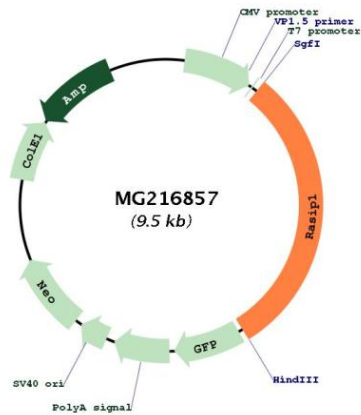
Locus ID: 69903

UniProt ID: [Q3U0S6](#)

Cytogenetics: 7 B3

**Gene Summary:** Required for the proper formation of vascular structures that develop via both vasculogenesis and angiogenesis. Acts as a critical and vascular-specific regulator of GTPase signaling, cell architecture, and adhesion, which is essential for endothelial cell morphogenesis and blood vessel tubulogenesis. Regulates the activity of Rho GTPases in part by recruiting ARHGAP29 and suppressing RhoA signaling and dampening ROCK and MYH9 activities in endothelial cells. May act as effector for Golgi-bound HRAS and other Ras-like proteins. May promote HRAS-mediated transformation. Negative regulator of amino acid starvation-induced autophagy (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG216857