

## Product datasheet for **SC327315**

### RAGEF2 (RAPGEF6) (NM\_001164389) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAGEF2 (RAPGEF6) (NM_001164389) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAGEF2
Synonyms:	KIA001LB; PDZ-GEF2; PDZGEF2; RA-GEF-2; RAGEF2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164389, the custom clone sequence may differ by one or more nucleotides

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ATGAACTACCCGTGGACCTGGCGCTAGGCAGGCGTTGAGGAAGAAGCCACCCGAGCGG
ACTCCCGAGGACTTAAATACTATTTATTCTTATCTTCATGGAATGGAAATATTATCAAAT
CTCAGGGAACATCAGCTTAGATTAATGTCTGCAAGAGCACGCTATGAGAGATACAGTGCC
AATCAGGTTCTCTTTTGTTCAGAAACGATTGCCAGATGTTGGTATATCCTACTTTCTGGA
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GCCAAAGATAATGAAGATAGTATTCTACAAAGAGAAATCCTGCCAGACAATCCCGAAGA
AGATTTTCGAAAATTAATAATAAAGGAGAGCGCCAAACCATTACTGATGATGTGGAGTT
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CCACAGGTGACTCATGTGCTTCTAGTCAGTCTGGTTGTAGCATTGCCAGTGACTCTGGA
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TTTGCAACATGACCATGTCTGTAAGGAGAGAAGTCTGCTCAGTGATGATTTTTGAAGTG
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CCTGAGCGTCTCATAATGCATTTAATAGAAGAACATTCCATCGTGGATCCAACTTATATA
GAAGATTTTCTATTAACCTACAGGACATTTCTTGAAGTCCTTTGGATGTTGGGATCAAA
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GAATTTGAAAAAATCTGGAAGATACAAAGATGAATGGTCATCTCCGGTTATTGAATATT  
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 GTGCTTCAAGTGGCAGCTGTTAATTTGCACCCCATCAGGAAGAAGGGACAAACAAAAGAC  
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 TCTCCTCAAGGCTCCCCACAAAAGTTGGCAGTATCATATCTGATCACAGCAGCAAGATC  
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 CAAGCTACAGAAAAGCTGTGAGAAAAGTGAAGGATGTTGGAAGCAACATCAAAGATGAGAAA  
 GGGAGTGCATCTTCAATTCAAATAGCCAAGGCAACAGTAACTTTAACTGCTTCTAT  
 ACGCGATTCAAGTCTAAAAGGAGGAAGACTC

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_001164389

<b>OTI Disclaimer:</b>	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>	<u><a href="#">NM_001164389.1</a></u> , <u><a href="#">NP_001157861.1</a></u>
<b>RefSeq Size:</b>	4524 bp
<b>RefSeq ORF:</b>	4176 bp
<b>Locus ID:</b>	51735
<b>UniProt ID:</b>	<u><a href="#">Q8TEU7</a></u>
<b>Cytogenetics:</b>	5q31.1
<b>Gene Summary:</b>	<p>Guanine nucleotide exchange factor (GEF) for Rap1A, Rap2A and M-Ras GTPases. Does not interact with cAMP.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 3' UTR and 3' coding region, compared to variant 1. It encodes isoform 5 which has a shorter and distinct C-terminus compared to isoform 1.</p>