

## Product datasheet for **SC111394**

### RRAGC (NM\_022157) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGC (NM_022157) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRAGC
Synonyms:	GTR2; RAGC; TIB929
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022157, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCTGCAGTACGGGGCGGAGGAGACGCCCTCGCCGGCAGTTACGGCGCGGCCGATTCTGTTTCCAA
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCCGGCGCGGGCGGAGGGTTGGGCAGG
GGCAGGCGGTGGCTGTGGTCCGGGGGGCGCTGACAGCTCCAAGCCGAGGATTCTGCTCATGGGACTCCGG
CGCAGCGGCAAGTCTCCATCCAGAAGGTGGTGTTCATAAGATGTCACCCAACGAGACCCTCTTTTTGG
AAAGTACCAACAAGATTTATAAGGATGACATTTCCAATAGCTCCTTTGTGAATTTCCAGATATGGGATTT
TCCTGGGCAAATGGACTTTTTTGACCCAACCTTTGACTATGAGATGATCTTCAGGGGAACAGGAGCATTG
ATATACGTCATTGACGCACAGGATGACTACATGGAGGCTTTAACAAGACTTCACATTACTGTTTCTAAAG
CCTACAAAGTTAACCAGACATGAATTTTGAGGTTTTTATTCACAAAGTTGATGGTCTGTCTGATGATCA
CAAAATAGAAACACAGAGGGACATTCATCAAAGGCCAATGATGACCTTGACAGATGCTGGCTAGAAAAA
CTCCATCTTAGCTTTTATCTGACTAGTATCTATGACCATTCAATATTTGAAGCCTTTAGTAAGGTGGTGC
AGAAACTCATTCCACAACCTGCCGACCTTGAAAACCTATTAATATCTTTATATCAAATTCAGGTATTGA
AAAAGCTTTTCTTTGATGTTGTCAGCAAAATCTACATTGCAACAGACAGTCCCCTGTGGATATGCAA
TCTTATGAACTTTGCTGTGACATGATCGATGTTGTAATTGATGTGCTTTGATATATGGGTTAAAGGAAG
ATGGAAGTGGAAGTGCTTATGACAAAAGAATCTATGGCAATTATCAAGCTGAATAATACTGTCCTTTA
TTTAAAGGAGGTGACTAAATTTTTGGCACTGGTCTGCATTCTAAGGGAAGAAAGCTTTGAAAGAAAAGT
TTAATAGACTACAACCTTCCACTGTTCCGAAAAGCTATTGATGAGGTTTTTGAGGTGGGTGTGACTTCTC
ACAGGAGCTGTGGTCACCAGACTAGTGCCTCCAGTCTGAAAGCGCTGACACACAATGGCACGCCACGAAA
CGCCATCTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_022157 unedited            CCCCTTTTCGGATATTTGTATACGACTTACTATAGGGCGGCCGCGATTCCGGCACGAGGGC            GACTGGTTTGGCGGGCGGCTGGCTCGGCCTGGCTGGCTGTACAGGGCGGGCGGGCGGC            GGCTCCAGCACCATGTCCTGCAGTACGGGGCGGAGGAGACGCCCTCGCCGGCAGTTAC            GCGCGGGCCGATTGTTTTCAAAGGACTTCGGCTACGGCGTGGAGGAGGAAGAGGAG            GCGGCGGGCGGGCGGAGGGGTTGGGGCAGGGCAGGCGGTGGCTGTGGTCCGGGGGGC            GCTGACAGCTCCAAGCCGAGGATTCTGCTCATGGGACTCCGGCGCAGCGCAAGTCCTCC            ATCCAGAAGGTGGTGTTCATAAGATGTACCCAACGAGACCCTTTTTGGAAAAGTACC            AACAAAGATTTATAAGGATGACATTTCCAATAGCTCCTTTGTGAATTTCCAGATATGGGAT            TTTCTGGGCAAATGGACTTTTTGACCCAACCTTTGACTATGAGATGATCTTCAGGGGA            ACAGGAGCATTGATACGTCATTGACGCACAGGATGACTACATGGAGGCTTTAACAAAGA            CTTACATTACTGTTTCTAAAGCCTACAAAGTTAACCCAGACATGAATTTTGAGGTTTTT            ATTCACAAAGTTGATGGTCTGTCTGATGATCACAAAATAGAAACACAGACGGACATTCAT            CAAAGGGCCAATGATGACCTTGACAGATGCTGGGCTAGAAAACTCCATCTTACCTTTTAT            CTGACTAGTATCTATGACCACTTCATATTTGAAGCCTTTATAAAGTGGTGCAGAACTCAT            TTCACACTGCCGACCTTGAAACCTATTAATATCTCTATATCAATTCAGGTATTGAAAAG            CTTTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022157
<b>Insert Size:</b>	1700 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_022157.2</a> , <a href="#">NP_071440.1</a>
<b>RefSeq Size:</b>	1442 bp

RefSeq ORF: 1200 bp

Locus ID: 64121

UniProt ID: [Q9HB90](#)

Cytogenetics: 1p34.3

Domains: Gtr1\_RagA

Protein Families: Transcription Factors

**Gene Summary:** This gene encodes a member of the GTR/RAG GTP-binding protein family. The encoded protein is a monomeric guanine nucleotide-binding protein which forms a heterodimer with RRAGA and RRAGB and is primarily localized to the cytoplasm. The encoded protein promotes intracellular localization of the mTOR complex. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).