

Product datasheet for SC116386

RRAGB (NM_006064) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGB (NM_006064) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRAGB
Synonyms:	bA465E19.1; RAGB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116386 sequence for NM_006064 edited (data generated by NextGen Sequencing) <pre> ATGGAAGAATCTGACTCTGAGAAAACGACGGAGAAAGAAAATCTGGGCGCGAGAATGGAT CCACCACTAGGGGAACCGGAAGGATCGCTTGGGTGGGTGCTACCAAATACAGCCATGAAG AAAAAGGTGCTGTTGATGGGTAAAAAGTGGGTCTGGTAAGACCAGCATGAGGTCTATTATC TTTGCAAATTATTTGCCAGAGACACACGTCGCCTTGGCGCAACAATTGATGTAGAACAT TCTCATGTTTCGATTTCTGGGAAACCTGGTATTGAACCTGTGGGATTGTGGTGGGCAAGAC ACCTTCATGGAAAATTATTTCACTAGCCAACGGGACAACATCTCCGAAATGTGGAGGTT CTGATTTATGTCTTTGATGTGGAGAGCCGCAACTGGAAAAGGACATGCACTATTACCAA TCATGCCTGGAGGCCATTCTGCAGAATTCTCCAGATGCCAAAATATTTTGCTTGGTACAC AAAATGGATCTGGTACAGGAGGATCAACGGGACCTGATTTTTAAAGAGCGAGAAGAAGAT TTGAGGCGTTTGTCTCGCCCATTTGGAATGTTCTTGTTTCCGAACATCTATCTGGGATGAA ACCCTCTATAAGGCTTGGTCCAGCATAGTTTATCAGCTGATTCCCAATGTTTCAGCAGCTG GAAATGAACCTAAGGAATTTTGCTGAAATTATCGAAGCTGATGAAGTACTTCTTTTTGAG AGAGCTACTTTTCTGGTAATTTCTCACTATCAGTGTAAGAGCAGCGTGATGCCCATAGA TTTGAGAAAATAAGCAACATTATTAAGCAGTTCAAGCTGAGCTGCAGCAAGCTGGCTGCC TCTTTCCAGAGTATGGAAGTCAGGAACCTAACTTCGCTGCTTTTCATTGACATCTTTACA TCCAACACTTATGTGATGGTTGTGATGTCTGATCCGTCATTCTTCTGCAGCTACTCTG ATCAACATCCGCAATGCCAGGAAACACTTTGAAAAGCTGGAAAGAGTGGATGGACCAAAG CAGTGTCTTCTCATGCGCTAA </pre>

Clone variation with respect to NM_006064.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_006064 unedited <pre> NGTCAAAATTTGTATACGACTCCTATAGGGCGGCCGGAATCGGCACGAGGCTGGGTTC TGAGGGCGGGTGGTTAGGTCGTAACACTGCCCCGCGGCTGACTCTCCGAGCGGCCGG GCTCGGAAGCCACGAGCCAGCTGAGGCGTTCTCCGCTTAGTGCTACGGCATGGGTCAGC TCTTTCTGCCACCTCCGCTTCGCGGTCCTCACCTCTTTGCGGGTGAAGTTACCTTTGGG TTTCCAGACCTTGGGGGCTGAGGCCAACTCGGGACGAACCCCTAACCCACCTCTCTT TTCCTGTCATTCTCCAACCTTACTTTGTACCACGGAATCACTTGGCCTTAAAGCTAGCC AGCTCGGCCGTGCTTGAGGCCAGGTTGAGAGATAAAGGTAACCGTGGGGAAGCGGCC CCCCAGTGGACAAAGGCGGAGGCAAGAATAGAGCAGGCCTGAGGGCCATAGGCGATGAGA ATAGGCAGTTGAGGGGTGAAAAAGAAAACAAACAAACAAACAAACCCCTGAAGAGT ACTGAAGATTTAGAAGGGACTGGAAGGACTTGTGCGCAATGGAAGAATCTGACTCTGA GAAAACGACGGAGAAAGAAAATCTGGGGCCGAGAATGGATCCACCACTAGGGGAACCGGA AGGATCGCTTGGTGGGTGCTACCAAATACAGCCATGAAGAANAAGGTGCTGTTGATGGG TAAAGTGGGGTCTGGTAAGACCAGCATGAGGTCTATTATCTTTGCAAATTATATTGCCA GAGACACACGTCGCTTGCGCAACATACTAGACCGTATACATAGTCTTCAATTAATAG CAGTTGAGCACCTACTCTCTGAGACTCTGGTGGAAATACAAGACATTNGATGTAGACA TTCTCATGNTCGATTTCTGGAAA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_006064
Insert Size:	2240 bp
OTI Disclaimer:	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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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. More info
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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_006064.3 , NP_006055.3
RefSeq Size:	2133 bp

RefSeq ORF: 1041 bp

Locus ID: 10325

UniProt ID: [Q5VZM2](#)

Cytogenetics: Xp11.21

Domains: Gtr1_RagA

Gene Summary: Ras-homologous GTPases constitute a large family of signal transducers that alternate between an activated, GTP-binding state and an inactivated, GDP-binding state. These proteins represent cellular switches that are operated by GTP-exchange factors and factors that stimulate their intrinsic GTPase activity. All GTPases of the Ras superfamily have in common the presence of six conserved motifs involved in GTP/GDP binding, three of which are phosphate-/magnesium-binding sites (PM1-PM3) and three of which are guanine nucleotide-binding sites (G1-G3). Transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Jul 2008]
 Transcript Variant: This variant (2, also known as RAGBs) lacks an alternate in-frame exon in the coding region, compared to variant 1, resulting in a shorter isoform (2).