

Product datasheet for **RC233885**

RRAGC (NM_001271851) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RRAGC (NM_001271851) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RRAGC
Synonyms:	GTR2; RAGC; TIB929
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233885 representing NM_001271851 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGCAGTACGGGGCGGAGGAGACGCCCTCGCCGGCAGTTACGGCGGGCCGATTCGTTTCCAA
AGGACTTCGGCTACGGCGTGGAGGAGGAGGAAGAGGAGGCGGGCGGGCGGGAGGGTTGGGGCAGG
GGCAGGGCGGTGGCTGTGGTCCGGGGGGCGCTGACAGCTCCAAGCCGAGGATTCGCTCATGGACTCCGG
CGCAGCGCAAGTCCATCCAGAAGATATGGGATTTCTGGGCAAATGGACTTTTTTGACCCAACT
TTGACTATGAGATGATCTTCAGGGGAACAGGAGCATTGATATACGTCATTGACGCACAGGATGACTACAT
GGAGGCTTTAACAAGACTTCACATTACTGTTTCTAAAGCCTACAAAGTTAACCCAGACATGAATTTTGAG
GTTTTTATTCACAAAGTTGATGGTCTGTCTGATGATCACAAAATAGAAACACAGAGGGACATTCATCAAA
GGGCAATGATGACCTTGACAGTGTGGCTAGAAAACTCCATCTTAGCTTTTATCTGACTAGTATCTA
TGACCATTCAAATATTTGAAGCCTTAGTAAGGTGGTGCAGAACTCATTCCAACTGCCGACCTTGAA
AACCTATTAATATCTTTATATCAAATTCAGGTATTGAAAAAGCTTTCTCTTTGATGTTGTGACAAAA
TCTACATTGCAACAGACAGTCCCTGTGGATGCAATCTTATGAACCTTGCTGTGACATGATCGATGT
TGTAATTGATGTGCTTTGTATATATGGTTAAAGGAAGATGGAAGTGAAGTCTTATGACAAAGAATCT
ATGGCAATTATCAAGCTGAATAATAACAAGTTCCTTTATTTAAAGGAGGTGACTAAATTTTGGCCTGG
TCTGCATTCTAAGGGAAGAAAGCTTTGAAAGAAAAGGTTTAAAGACTACAACCTTCCACTGTTCCGAAA
AGCTATTCATGAGGTTTTGAGGTGGGTGTGACTTCTCACAGGAGCTGTGGTCACCAGACTAGTGCCTCC
AGTCTGAAAGCGCTGACACACAATGGCACGCCACGAAACGCCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC233885 representing NM_001271851
 Red=Cloning site Green=Tags(s)

MSLQYGAETPLAGSYGAADSFPKDFGYGVEEEEEAAAAAGGGVGAGAGGGCGPGGADSSKPRILLMGLR
 RSGKSSIQKIWDFPGQMDFFDPTFDYEMIFRGTGALIYVIDAQDDYMEALTRLHITVSKAYKVNPMNFE
 VF~~IHKVDGLSDDHKIETQRDIHQ~~RANDDLADAGLEKLHLSFYLTSIYDHSIFEAFSKVVQKLIPQLPTLE
 NLLNIFISNSGIEKAF~~LDVVSKIYIATDSSPVDMQSYELCCDMIDVVIDVSCIYGLKEDGSGSAYDKES~~
 MAI~~IKLNNTTVLYLKEVTKFLALVCILREESFERKGLIDYNFHCFRKAIHEVFEVGTSHRSCGHQTSAS~~
 SLKALTHNGTPRNAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271851

ORF Size: 1095 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001271851.2](#)

RefSeq Size: 2644 bp

RefSeq ORF: 1098 bp

Locus ID: 64121

UniProt ID: [Q9HB90](#)

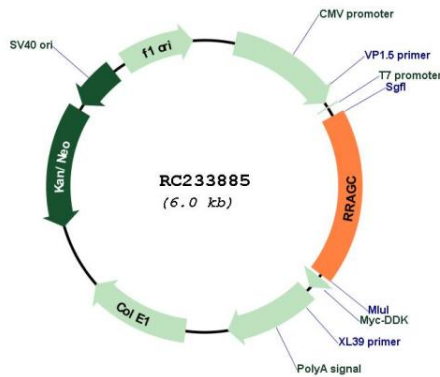
Cytogenetics: 1p34.3

Protein Families: Transcription Factors

MW: 40.7 kDa

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]

Product images:



Circular map for RC233885