

Product datasheet for **MC202428**

Rragb (NM_001004154) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rragb (NM_001004154) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rragb
Synonyms:	MGC69750; MGC95567
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC069180 sequence for NM_001004154
 CGCTCCTGAAGGGCGGGCGGGAAGTAAGAGCATCCTCAGGCGGACCGTGACTGGCAGCGAGGTCGGGAG
 GAGCCACCAGGCAGTGACCGCTTTGCTTCTGCAGCTCCGCTCCGCTCATTCCGTTATCTCAGCCTTTGCA
 GTCTGTACAGAAGCTGACCAAGTTACCTTTGGGTCTTGAGACCTTGGCGAGTGAGGCCAAAACCTCGGGAC
 CAACTCCTCATCCACCTTGCCCTCCCTCCTCCATCTCTTCTTGCACGCACCGAATCGAATCGTTG
 CTCCTTTGGGCTGGCCTGCTCGGCTGTGCTGGAGACTAAGTTCGGGTGCGTAAAGGTAAGTGTGGGAAA
 AGCGGCCCCCAAGTGGACAAAAGGCGGAGGCAGGGATAGATCAGGCCCCCGGGCCCTGGGTGCTGAGCGT
 AGGCAGGTGAGCCAGAAGAACGGTACTGCGGATTTAGAAGGCACTGTGAAGGACTTGTTCACGATGGAA
 GAATCTGACTCCGAGAAAAAGACAGAGAAAAGAGAATGTGGGCCAAAAGTGGAGCCTCCTTAGGGGAGC
 CGGAAGGATCGCTTGGGTGGGCAATGCCAAATGCAGCCATGAAGAAAAGGTCTGTTGATGGGTAAGG
 TGGATCTGGTAAGACCAGCATGAGGTCTATTATCTTTGCAAATTATTGCCAGAGACACACGTCGCTCT
 GGTGCAACAATACTAGACCGTATACATAGTCTTCAAATTAATAGCAGTTTGGACCTACTCTCTCGTAG
 ACTCTGTTGGAATAACAAGACATTTGATGTAGAACAATCTCATGTTGATTTCTGGAAACCTGGTTTT
 GAACCTGTGGGATTGTGGTGGACAAGATACCTTCATGGAAAATTATTTCACTAGCCAGCGTGACAACATC
 TTCGAAATGTGGAGTTCTGATTTATGTCTTTGATGTGGAGAGCCGTGAAGTAAAAGGACATGCACT
 ACTATCAGTCATGCCTTAGGCTATTCTGCAGAATTCTCCAGAAGCCAAAATCTTTTGCTTGGTACACAA
 AATGGATTTGGTACAGGAAGATCAGCGAGACTTGATATTTAAAGAACGAGAAGAGGACTTAAAGCGTTTA
 TCGCGTCCGCTAGAATGTTCTTGTTCGAACTCTATCTGGGATGAAACTCTGTATAAGGCATGGTCCA
 GCATTGTTATCAGCTGATCCCAATGTTGAGCAACTGGAATGAACCTGCGGAATTTGCTGAAATTTAT
 TGAGGCTGATGAAGTCTTCTGTTTGAAGAGCTACCTTTCTGGTGATTTCTCATTATCAGTGTAAGAA
 CAGCGAGATGCCACCGATTTGAGAAAATCAGCAACATTTAAGCAATCAAGCTGAGCTGTAGCAAGC
 TGGCTGCCTCTTCCAGAGTATGGAAGTGAGGAACCTCAACTTTGCTGCTTTCTTGGACATATTCACATC
 CAACACTTACGTATGGTCGTGATGTCTGATCCATCCATTCCTTCTGAGCTACTCTGATCAACATCCGC
 AATGCCAGAAAACACTTTGAAAAGCTGGAGAGAGTGGATGGACAAAACAGTGTCTTCTCATGCGCTAAA
 CATTGCTGAATATTGTTTACACAAAATTGAAACACTGTTTCTTAATTTTATTGTTGATTTCATATATG
 TAGGATTTGAAATATTGTGATGCCACACAGTCTGATTTCTTCTACTCCCCAGTCTTAAACGTTTATC
 TTTGAATGCTATTTATTCAAATAGCGTGAGGAGTTAGAAGATGAGGTGTCTATGATGTTGATGTAATGTA
 TACGTAGGCGATATGTAAGTGTCTGATAACATGACTCTAATGGTGTAAAGTGTCTGATAACCTGC
 TTTTAATAGTTGTATGCCAAAGTCTTCCAGCACCTCTTGTATTCTTATCAATATATACATGTAA
 GTTTGAAGTATTACTGTTTTCTCAGCATGAATAAAAATATTCTGTAAGTCAAGCCAGGCAAGGTAGCTCA
 TGCTGTGATCCCAGCATTGGGAAACAGAGGCAAGAGGATTGCTGCAAGTTAAGGCCAGCCTGTCTAC
 ATAGGGAGGTCCAGGCCAGGGATGTATATCAAGATCTTGTTCAAAAAATTATATATATATATATATA
 TATATATATATATATATACCTTAACTTCACTTCAATGTAATAAACTTCTGCTGTTAGGGAAAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI

ACCN: NM_001004154

Insert Size: 1125 bp

OTI Disclaimer: 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).

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: [BC069180](#), [AAH69180](#)

RefSeq Size: 2260 bp

RefSeq ORF: 1125 bp

Locus ID: 245670

UniProt ID: [Q6NTA4](#)

Cytogenetics: X F3

Gene Summary: Guanine nucleotide-binding protein that plays a crucial role in the cellular response to amino acid availability through regulation of the mTORC1 signaling cascade. Forms heterodimeric Rag complexes with RRAGC or RRAGD and cycles between an inactive GDP-bound and an active GTP-bound form. In its active form participates in the relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. Involved in the RCC1/Ran-GTPase pathway.[UniProtKB/Swiss-Prot Function]