

## Product datasheet for MC209892

### Rragd (NM\_027491) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rragd (NM\_027491) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Rragd  
**Synonyms:** 5730543C08Rik; AI467523; C030003H22Rik; D4ErtD174e  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209892 representing NM\_027491  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGAGCCAAGTGTGGGCAAGCCGAGCCGAGGGTGAGGACGGCGGCGAGGACGAGGAGGAGGATGAGC  
 TGGTGGGGCTGGCGGGCTACGAGGATGGGCCGAGTCTCGGACGCCGAGCTGGACAGCGGGCCGGAGGA  
 GGGAGTTCTGGACTTCAGCGACCCCTTCAGCACTGAGGTGAAGCCAGAATCCTGCTCATGGGTCTCAGG  
 AGGAGCGGCAAGTCGTCTATCCAGAAAGTCGTCTTTCACAAAATGTCCCGAGCGAGACGCTGTTCTTGG  
 AGAGCACCAACAGGATCTGCCGGGAAGACGTCTCCAACAGCTCCTTCGTCAAATCCAGATTTGGGACTT  
 CCCAGGGCAGATTGACTTTTTGACCCTACCTTTGACTATGAGATGATCTTCCGGGAACCGGGGCACTG  
 ATCTTCGTCATCGACTCCAGGATGACTATATGGAAGCGCTGGCCGGCTCCATCTCACAGTGACCAGGG  
 CCTACAAGGTGAACACTGATATCAACTTTGAGGTGTTTATTCATAAAGTAGATGGTCTGTCAGATGACCA  
 CAAAATTGAAACCCAGAGAGACATTCACCAGAGGGCAAACGATGACCTCGCTGATGCTGGATTAGAAAAA  
 ATTCACCTGAGCTTTTACCTGACAAGCATATATGATCATTCAATATTTGAAGCCTTAGCAAAGTGGTTC  
 AGAAACTGATCCCACAGCTCCCGAGCTGGAGAATCTGCTGAACATCTTATCTCAAATCTGGAATTGA  
 GAAAGCGTTTCTGTTTGACGTGGTCAGTAAGATTTATATTGCAACCGACACGACGCGGTTGGACATGCAG  
 ACGTACGAGCTCTGCTGTGACATGATTGACGTGGTGATCGACATCTCTTGATTTATGGTCTCAAAGAAG  
 ATGGAGCAGGAGCCCGTATGACAAGGACTCAACAGCCATTATAAAGCTGAATAACAACAGTTCTTTA  
 TTTAAAAGAGGTCACAAAGTTCTTGGCGCTCGTTTCTCGTCAGAGAGGAAAGCTTTGAAAGAAAAGGG  
 CTGATTGACTATAATTTCCACTGCTTCCGGAAGGCCATCCATGAAGTCTTCGAGGTGAGGATGAAGATGG  
 TGAAATCTCGAAAGGCCAGAGTCGGCTACCAAGAAGACAGGAGCTACTCCAATGGGACCCTAGAGT  
 GCTGCTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_027491
<b>Insert Size:</b>	1200 bp
<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>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_027491.2</a> , <a href="#">NP_081767.2</a>
<b>RefSeq Size:</b>	5047 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	52187
<b>UniProt ID:</b>	<a href="#">Q7TT45</a>
<b>Cytogenetics:</b>	4 14.57 cM
<b>Gene Summary:</b>	Guanine nucleotide-binding protein forming heterodimeric Rag complexes required for the amino acid-induced relocalization of mTORC1 to the lysosomes and its subsequent activation by the GTPase RHEB. This is a crucial step in the activation of the TOR signaling cascade by amino acids (By similarity).[UniProtKB/Swiss-Prot Function]