

## Product datasheet for SC117559

### RRAD (NM\_004165) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RRAD (NM_004165) Human Untagged Clone
Tag:	Tag Free
Symbol:	RRAD
Synonyms:	RAD; RAD1; REM3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004165 edited  
 GAATTCGGCACGAGGGGCTGCAGCAGCAGCGCGCGGAAACCCTAAAGTCCGAGTCCGG  
 ACTACGAGTGCCTGGCCCTCTAATCCGGATCCTAGTCTGAGCGTGTCTGTGTGCGAGTG  
 GACGGTCCCGGACGCGATGACCCCTGAACGCGCGGCGCAGCGGAGCGGGGAGCCGCGG  
 TGGGGGCCAGGAGCGCGAGCGCCGTGCGGGCAGCACACCCTGGGGCCCGCCCGCCGCT  
 GCACCGCCGACGATGCCGGTGGACGAGCGCGACCTGCAGGCGCGCTGACCCCGGGTGC  
 CCTGACGGCGGCCGCGCCGGGACCGGGACCCAGGGTCCCAGGCTGGACTGGCCGAGGA  
 CTCCGAGGACTCGCTCAGCTCAGGGGGCAGCGACTCAGACGAGAGCGTTTACAAGGTGCT  
 GCTGCTGGGGGCGCCCGGCTGGCAAGAGCGCCCTGGCGCGCATCTTCGGCGGTGGA  
 GGACGGGCTGAAGCAGAGGCAGCAGGGCACACCTATGATCGCTCCATTGTAGTGGACGG  
 AGAAGAGGCATCACTCATGGTCTACGACATTTGGGAGCAGGACGGGGCCGCTGTTGCC  
 CGGCCACTGCATGGCCATGGGGATGCCTATGTCATTGTGTACTCAGTGACGGACAAGGG  
 CAGCTTCGAGAAGGCCTCAGAAGTGCAGGTCAGCTGCGGCTGCACGGCAAACAGATGA  
 TGTGCCATCATCCTCGTGGGCAACAAGAGCGACCTGGTGCCTCTCGTGAGGTCTCGGT  
 GGATGAGGGCCGGGCTGCGCGGTGGTCTTTGACTGCAAGTTCATTGAGACATCAGCGGC  
 ATTGCACCACAATGTCCAGGCGCTGTTTGAAGGTGCTGTCGCCAGATACGCCTGCGCAG  
 GAACAGCAAAGAAGCCAACGCACGACGGCAAGCAGGACCCCGGAGCGGAGAGAGCCTTGG  
 CAAAAAGCGGAAGCGCTTCTTGGGCCGATCGTAGCTCGTAACAGCCGCAAGATGGCCTT  
 TCGCGCCAAATCCAAGTCTGCCACGACCTCTCGGTTCTTAGGTCCCACCCGCTCCCAC  
 TATGGTGGGAGACGAACGGAAGGTTGGTGGGCTGGCCAGCCAACCTGCCCGGGTGCCT  
 CAGAGCAGGCTCAGACTTGGGTCCTCGGAGCTGCCAGCGGGCACCCCAACCTCATG  
 GTCATGGACAGATAGACAGTGTGCCCTGCGAAGTGGCTCTCAGGGGCCAGTGAGGGCTG  
 GGCCACAGAGATGCATGCGCAGGCTCATATGCGTCCCAAGCAGCCGAGCGCAGCCGCC  
 GGGCAGGCTGCGTGCCGGGAGAGGACTCTGCCTTTTTTACAGCCGGGTGTCCTGCC  
 CTGGAGGGAGGCTCTTCAGTGGGTAGCTATTTGTTTACATGCAGATTTTGTAAATAAG  
 GCTATTTCTGATAAAAAAAAAAAAAAAAAAACTCGAC



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004165 unedited  TGAATTTTGAATACGACTCACTATAGGGCGGCCCGGATTTCGGCACGAGGGGCTGCAGC  AGCAGCGGCGGCGAAACCCTAAAGTCCGAGTCCGGACTACGAGTGCCTGGCCTCCTAAT  CCGGATCCTAGTCTGAGCGTGTCTGTGTGCGAGTGGACGGTCCCGGACGCGATGACCCT  GAACGGCGGCGGACGCGGAGCGGGAGCCGCGGTGGGGCCAGGAGCGCGAGCGCCG  TCGGGGCAGCACACCTTGGGGCCCCGCCCGCCGCTGCACCGCCGAGCATGCCGGTGA  CGAGCGCGACCTGCAGGCGGCGCTGACCCGGGTGCCCTGACGGCGGCCGCGCGGGAC  GGGGACCCAGGGTCCCAGGCTGGACTGGCCCCGAGGACTCCGAGGACTCGCTCAGCTCAGG  GGCAGCGACTCAGACGAGAGCGTTTACAAGGTGCTGCTGCTGGGGCGCCCCGGCTGGG  CAAGAGCGCCCTGGCGCGCATCTTCGGCGGTGTGGAGGACGGGCCTGAAGCAGAGGCAGC  AGGGCACACCTATGATCGCTCCATTGTAGTGGACGAGAGAAGAGGCATCACTCATGGTCTA  CGACATTTGGGAGCAGGACGNGGCCGCTGGTTGCCCGGCCACTGCATGGCCATGGGGGA  TGCCTATGTCATTGTGTACTCAGTGACGGACAAGGGCAGCTTTCGAGAGGCCTCAGAACT  GCGGGTTCAGCTCGGCGTGCACGGCANACAGATGATGTGCCCATCATCCTCGTGGGCAA  CAGAGCGACCTGNTGCGCTCTCGTGAGGTCTCGNTGGATGAAGGCCCGGCCCTGCGCGC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004165 unedited  CCTCCGTAGCACCATTGGATGATGGCACTTCCCAGNCCAGNAGAGCACTGGGGAAGGG  GTACACAGGGCATGCCACCCGGTTCTGTTTCAGGAAAAGCTATGACCGCGGCCGCAATCT  AGAGTCGAGTTTTTTTTTTTTTTTTTATCAGGAAAATAGCCCTTTATTACANAAAATCT  GGCATGTAAAACAATATAGCTTACCGCACTAGAAGAGCCTCCCTCCAGGGCAGGCACACC  CGGGCTGTAAAAAAAAGGCAGAGTCTCTCCCGCACGCAGGCCCTGCCCGCGGCTGCCG  TGCGGCTGCTTGGGACGCATATGAGCCTGCGCATGCATCTCTGTGGGCCAGCCCTCACT  GGCCCCTGAGAGCCACTTCGAGGGCAGCACTGTCTATCTGTCCATGACCATGAGGTTGG  GGGTGCCCGGCTGGCAGCTCCGAGGGACCCAGAGTCTGAGCCTGCTCTGAGGCACCCGGG  GCAGTTGGCTGGGCCAGCCACCAACCCTTCCGTTCTGCTCCCACCATAGTGGGAGCGGG  TGGGACCTAGAGAACCGAGAGGTCTGGCAGGACTTGGATTTGGCGGAAAGGCCATCTT  GCGGCTGTACGAGCTACGATGCGGCCCAAGAAGCGCTTCGCCTTTTTGCCAAGGCTCTC  TCGCCTCCGGGTGCCTGCTTGCCTGCTGCGTTGGCTTCTTTGCTGTTCTGCGCAGGCG  TATCTGGCGCACGACACCTTCAAACAGCGCCTGGACATTGTGGTGAATGCCGCTGATGT  CTCAATGAACTTGCAAGTCAAAGACCACCGCGCAGGCCCGGCCCTCATCCACCGAGACCTC  ACGAGAGCGCACCNAGTCGCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004165
<b>Insert Size:</b>	1100 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).

**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\\_004165.1](#), [NP\\_004156.1](#)

**RefSeq Size:** 1443 bp

**RefSeq ORF:** 927 bp

**Locus ID:** 6236

**UniProt ID:** [P55042](#)

**Cytogenetics:** 16q22.1

**Domains:** ras, RAS, RAB

**Gene Summary:** May play an important role in cardiac antiarrhythmia via the strong suppression of voltage-gated L-type Ca(2+) currents. Regulates voltage-dependent L-type calcium channel subunit alpha-1C trafficking to the cell membrane (By similarity). Inhibits cardiac hypertrophy through the calmodulin-dependent kinase II (CaMKII) pathway. Inhibits phosphorylation and activation of CAMK2D.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) uses an alternate splice junction in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.