

Product datasheet for **MC203237**

Rsad2 (NM_021384) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rsad2 (NM_021384) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rsad2
Synonyms:	2510004L01Rik; cig5; Vig1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC057868
 GTCACCATGGGGATGCTGGTGCCCACTGCTCTAGCTGCTCGGCTGCTGAGCCTGTTCCAGCAGCAGCTGG
 GTTCCCTCTGGAGTGGCCTGGCCATCCTGTTCTGCTGGCTGAGAAATAGCATTAGGGTGGCTAGATCCCGG
 GAAGGAACAGCCACAGGTCCGGGGTGGAGCTGGAGGAGACCCAGGAGACCCAGGAAGATGGGAACAGCACT
 CAGCGCACAAACCCCGTGGAGTGTCAACTACCACTTCACTCGTCAGTGAACACTACAAATGTGGCTTCTGCT
 TCCACACAGCCAAGACATCCTTCGTGCTGCCCTGGAGGAGGCCAAGCGAGGACTGCTTCTGCTCAAACA
 GGCTGGTTTGGAGAAGATCAACTTTTCTGGAGGAGAACCCTTCTTCAGGACAGGGTGAATACTTGGGC
 AAGCTTGTGAGATTCTGCAAGGAGGAGCTAGCCCTGCCCTCTGTGAGCATAGTGAGCAATGGCAGCCTTA
 TCCGGGAGAGATGGTTCAAGGACTATGGGGAGTATTTGGACATTCTTGCTATCTCTCGCAGACTTTCGA
 TGAGCAGGTTAATGCTCTGATTGGCCGTGGTCAAGGAAAAAGAACACGTGGAAAACTTCAAAGCTG
 AGGAGGTGGTGCAGGATTACAAGTGGCTTTCAAGATCAACTCTGTCTAATCGCTTCAACGTGGACG
 AAGACATGAATGAACACATCAAGGCCCTGAGCCCTGTGCGCTGGAAGGTTTTCCAGTGCCTCCTAATTGA
 GGGTGAGAACTCAGGAGAAGATGCCCTGAGGGAAGCAGAAAGATTTCTTATAAGCAATGAAGAATTTGAA
 ACATTCTGGAGCGTCACAAAGAGGTGCTCTGTTTGGTGCCTGAATCTAACCAGAAGATGAAAGACTCCT
 ACCTTATCCTAGATGAATATATGCGCTTCTGAACTGTACCGGTGCCGGAAGGACCCCTTCAAGTCTAT
 TCTGGATGTTGGCGTGAAGAAGCAATAAAGTTCAAGTGGATTTGATGAGAAGATGTTTCTGAAGCGTGGC
 GGAAAGTATGTGTGGAGTAAAGCTGACCTGAAGCTGGACTGGTGGAGCTGAGATGGGAAGGAAACTCCGA
 CCAGCTACAGGGACATTCACGCCAGCTATCCTTCAACAAGCTACATCTTCTGGCTGTCTACAGACTGTT
 GTTATTAGAACACAGTCTGTTTATTTTCTTTCAGTTTACTGAACTAAAAAGGGAGTAAAATTATGCAG
 CAGATAATCGTCTCCACAGGAGAGTTCGGTCTCAGAGGAGCAAGGTCCAGTGACCCCTAAGAACCA
 GCATTTTCAATTTATTTGAATTTTTGTGTGGATTTACTGTGAATCCACATTTCTTTTTCTTTTTGT
 TCCCTTGAGAACTGGGTTATTTTTGCTAACTATGCCAATTTTGTCAACAGGAACTTCAAAAACAC
 ACCCTCAATTAAGTCTGACTATTCTAATGCTTTTCTGCTTTTGGAAATTTGGACTTTTTACTCAAAGTG
 TAGAATCAAGGCATATCTCATAGAACCTTAAGTTAGAATCTTACTTTATGGAAGGAGTTATTTCTAGA
 ACAGGCTGTTTGTTCATGGTCCCAGCCTCTGATGCTGCTGCTTCAAGATGGCTGCTTTATACTGCAGCAA
 TTCCTTACAGGTTCTTGACAAAGCCAAGGTACTTTTACCTCCCAGGGTGTGGCAATGAGGATGCCACTT
 CTGCAGCTGCAACTGCCCTGGCATTGAGGCTGCTTGAAGTCTCTCATGCTGAAAGGTTGTCACACTTTTCT
 GAAAAGCTCAAGGCCATGTGGCACGTCCAGAAGAGTCTGGGGGGATAGACAGGAAGGAGCTTTTCAGGA
 ATATAAAATGTGGCAGCTGGCTTGGTATAAATGTGCTGTGGTTCCTTAGCATATCTTTCAAGAAACACT
 GAAACTTGACCTAGTCTAGGTCAACATGAGAAAAACAAAAAACAAAAACAAAAACAAAAACAAAAACAAAAA AA

Restriction Sites: RsrII-NotI

ACCN: NM_021384

Insert Size: 1089 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: [BC057868](#), [AAH57868](#)

RefSeq Size: 2032 bp

RefSeq ORF: 1089 bp

Locus ID: 58185

UniProt ID: [Q8CBB9](#)

Cytogenetics: 12 A2

Gene Summary: Interferon-inducible iron-sulfur (4FE-4S) cluster-binding antiviral protein which plays a major role in the cell antiviral state induced by type I and type II interferon. Can inhibit a wide range of viruses, including west Nile virus (WNV), dengue virus, sindbis virus, influenza A virus, sendai virus and vesicular stomatitis virus (VSV). Displays antiviral activity against influenza A virus by inhibiting the budding of the virus from the plasma membrane by disturbing the lipid rafts. This is accomplished, at least in part, through binding and inhibition of the enzyme farnesyl diphosphate synthase (FPPS), which is essential for the biosynthesis of isoprenoid-derived lipids. Promotes TLR7 and TLR9-dependent production of IFN-beta production in plasmacytoid dendritic cells (pDCs) by facilitating Lys-63'-linked ubiquitination of IRAK1. Plays a role in CD4+ T-cells activation and differentiation. Facilitates T-cell receptor (TCR)-mediated GATA3 activation and optimal T-helper 2 (Th2) cytokine production by modulating NFKB1 and JUNB activities. Can inhibit secretion of soluble proteins.[UniProtKB/Swiss-Prot Function]