

Product datasheet for **MC222145**

Irag1 (NM_194464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irag1 (NM_194464) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Irag1
Synonyms:	BB115629; Irag; Mrvi1; R; Ris1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222145 representing NM_194464
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCCACATTCCTGAGGATGAGGAGCCCCCGGAGAGCCACAGGCAGCCAGACCCAAGACTCTCCCT
 CTGCAGGACCATTTCCAGCCCTCCACAAATCGTCTGACGGGGATGCCAGTTCACCTGAAGGAGAGAC
 TGACAAAAACCTAGTCAACAGGGCTCCAGCCCTCACCGAGGCTTTCCACCGACACCTGAAGGTCTCC
 ACTGCTTCGCTGACTTCTGTGGACCCCTCGGGGCATGTCATTGACCTGGTGAATGACCAGCTGCCGGACA
 TCAGCATCTCAGAAGAGGACAAGAAAAAACCTGGCACTTCTGGAAGAAGCCAAGTTGGTGAAGGAGCG
 GTTCTGACCCGCGTGGGAGGAAATCAAGGAGCAGCCTCGGAGACTCCCATCAGCTGTTTCTCCAAAC
 CTCAGCTCTGGGGCTTCTCCTGCATCCTCAGGAGCTGCTCCCTACCATCTCCACATCACCAGGTTTGG
 ACATATGCAGTGGCCCTCAGTCCCCTCTGCCAGGAGCACCACCACAGCAAAGGGACATGAGGACGGGT
 CTCTCGCCTTGGCCGGAGAGCCTAATGTCTCCAAAGGCTAGTGACCTGAAGCAGAATGACCAGAGA
 AAAGTGTCTCAAGGCAGACTGGCTCCTCGCTCTCCACAGTGGAGAAAACCAAGGAATACAGTAGAAC
 AAAAGGAAAACCTTGTATCCCTTCAGCAGTGGAGGCCACGCCATGGCTCAGGCTTCTGGAGCAAGCAT
 CAGTGGGAAAATGGCTCTGAACAGCCCCAGCCTGGCCCTGCTGAGATGGAGCTGGGAGGCAGCTCCTG
 AAGACAGCCCGGAAGGCAACCTCTGCCCAGAACCACAGCCAGGGCTCAGGAGGAACGGTCTCCCCAC
 ATTCCTGGGGCAGGGCTCTGCTGGAGAGCCTATGGGACCAAGGCTGGCTCCAAGGCTGAGCTGAGGTC
 CCCTGTGTCCCGCCCCCTGATTCGGGGGTCTCTGGGACAGCAGCCCTGAAGAACCAGGTCCTCCCTG
 CTGCAGAAGGTGCTCGCTAAGCTGCCCCGGCAGAGGAAGAGAAGCGGTTCCAGGCAAAGCAAGCCAG
 CCAAGGCACTGGGCTCAAAGACTTCCAGATCAAGTGCAGCCGGTGCATGCAGAAGTGAACCAAGT
 CCGGGAGGAACACATCCTGATGAGAAACAGAACCCTGGTGGGTTCAAGCTCCCTGAAGTGAAGTGGCC
 GCGGAGCAGGACAAGGAGTCTACCTGAACTCGCCCCAGCAGCTGAGGAAGAAGTCCAAAGTGGTC
 TGGATGTGATGCCAACATTTCTGACATATTGCTGCGCAAACCTAGGGTTCACAAGTCACTCACTGGAAG
 CGCCCTCCACTCACTGAAAAGGAAAGTTGAGAAGTGTGTTGTACAACCTGCTTGGCCTTTAGAAATGAC
 AGCTACACCTTGGAGTCTAGAATTAACCAGGCTGAAAGGGAGCGCAACCTGACAGAAGAGAACACGGAGA
 AGGAACTGAAAACCTCAAAGCCTCCATAACGTCCTCAGCAAACATCTGGTACCCTGCGAACACCGGGA
 GACCTATCAGAACTTCTGGAAGACATCGCCGTCTTGCATCGTCTGGCTGCCCGCTCTCCAGTCCGGCT
 GAAGTGGTGGGTGCTGTTCCGCCAGAAAAGCGCATGTCAAAGGCCACGGAAGTATGATGCAGTATGTGG
 AGAATCTGAAGAGAACGTATGAGAAGGACCATGCTGAGCTCATGGAATTTAAGAACTTGAACATCAGAA
 TTCCAGTTCGACAGCTGTGGCCCTCTGAAGACGGGGTTCCTCGAACGGCGCGATCTATGTCCTCACAAATG
 GGAAAGAACATGCCCGCCGGAGGGTCAAGCTTGTGTTTCCCAAGTTAATGCCCTGAACCTGCCTG
 GCCAAGCCCCGAGCTCTTACCCATGCCTTCCCTACCAGCTCTGTCTGAATCGTCCAATGGGAGAGCAG
 CATCTCCGTCTCCCCAGCGCTGCCTGCACTTTTGGAAAATGGAAGACAAATGCAGAGGCTAACTGCGAA
 GTGGGTGCCCTGTGCCACTCCAAGCTGTCTGGAGGAGACGAGCCAGGAGCAAGGCCAAGGCAGAGG
 AAGAAGCTACAGCAAAGGATACCAGGAAGGGTAAAGAAGACCGAAGAACTTCAAGACCTGAAGGAGGA
 GGAGGAGGAAGAACAAGACGAGAGTCCCAGGAACCAAGAGGTAGAAGAAACCCAGGAGGACGAG
 AAGGACCAGGGAAGCAGCAAACCTGAAGAAGTGGTCCACTTCTACAAGTCAATGATCCTAAATTGTGTC
 AACACTGGCAAGTATCTGGATGATGGCCGAGTATGCTGGTCTTGAAGTGTGTTCTCGGGCTGTACAG
 TTCCTATAACTCCTGCACAGAGGAGGCCGATGGGCCCTGGGAGATCCACCTGCTCTGCAGCCAGCGG
 GACTCCTGGTGGAGCTCCGGACTCCAGCAAAGAGCTGCCAGCAGAGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_194464
Insert Size: 2571 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:	<ol style="list-style-type: none">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_194464.3 , NP_919446.2
RefSeq Size:	6211 bp
RefSeq ORF:	2571 bp
Locus ID:	17540
Cytogenetics:	7 57.9 cM
Gene Summary:	<p>This gene is a putative tumor suppressor gene that is frequently disrupted by mouse AIDS-related virus (MRV). The encoded protein participates in signaling by nitric oxide (NO) to inhibit intracellular calcium release and platelet aggregation in cardiovascular tissue. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) has a shorter N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>