

Product datasheet for **RN200094**

Irag1 (NM_001105210) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irag1 (NM_001105210) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Irag1
Synonyms:	Mrvi1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200094 representing NM_001105210
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCACATTCCTGAGGATGAGGAGCCCCCGGAGAGCCACAGGCAGCCAGACCCAAGACTCTCCCT
 CTGCAGGACCGTTTTGCAGCCCTCCACAAATCATCCTGACGGGGATGCCAGTTCACCTGGAGGAGAGAC
 TGACACAAATCTGGTCAAGAGGGCTCCAGCCCCACCGCAGGCTTTCCACCGACACCTGAAGGTCTCC
 ACTGCCTCGTGACTTCTGTGGACCCCTTGGGGCAGCTATTGACCTGGTAAATGACCAGCTGCCGGACA
 TCAGCATCTCAGAAGAGGACAAGAAGAAAACTGGCCTTCTAGAAGAAGCCAAGTTGGTTAGCGAGCG
 GTTCTGACCCGCGGGGAGGAGATCAAGGAGCAGCCTCGGAGACGCCCATCAGCTGTTTCTCCAAAC
 CTCAGCTCTGGAGCTTCTCCTGCATCCTTAGGAGTTGCTCGTTCACCATCTCCACACCACAGTTTTG
 ACATGACAGTGGCCACAGTCCCCTCTGCCGGGATCACCAGCACAGAAAAGGGACATGAGGATGATGT
 CTTCTCGTCTCACCTCGGAGAGCCTAATGCCTCCAAAGGGCTAGCTGACCGGAAGCAGAATGACCAGAGG
 AAAGTGTCTCAAGGCAGACTGGCTCCTCGCTCTCCACAGTGGAGAAATCCAAAGAACTTTCAGTAGAAC
 AAAAGGAAAATTCGATCCCCTTCAGCATCTGGAGGCCACACCCATGGCTCAGACCTCTGGAGCAAGCGT
 CAGTGGGAAAATGGCGCTGAACAGTCCCAGCCTGGCCCTGCGGAGATGGAGCTGGGGAGGCAGCTTCTG
 AAGACAGCCAGGGAAGACAACCTCTGCCCAGAACCACAGTCCAGGGCTCAGGAGGAACGGCCTCCCCAC
 ATTCTCAGGGACAGGGCTCTGCTGGAGAGCTTATGGGGCCCAAGGCTGGCTCCAAGGCTGAGCCGAGGCC
 TCCTGTGTCCCGCCCCCTCTGATTCGGGGGTCTCCTGGGACAGCAGCCCTGAAGAACCTGGTCCCCTG
 CTGCAAAAGGTGCTCGTAAGCTGCCTCTGGCAGAGGAAGAAAAGCGGTTTCCAGGCAAAGCCAAGCCAG
 CCAAGCCACCGGGCTCAAAGACTTCAGATAACAAGTACAGCCGGTGCAGATGCAGAAGCTGACCAAGCT
 TCGGGAGGAACACATCCTGATGAGAAACAGAACCCTGGTGGGGTTCAAGCTCCCTGAAGTGAAGCT
 GCAGAGCAAGACAAGGAGTCTCATCTGAGCTTCCCCAGCAGCTGAGGAAGAAGAAATCAAAGAGTGGTC
 TGGATGTGATGCCAACATTTCTGACATATTGCTACGTAACCTTAGGGTTCACAAGTCACTCACTGGAAG
 CGCCCCTCGCTCACAGAAAAGGAGTGCAGAACGTGTTGTACAACCTGCTTGGCCTTTAGAAATGAC
 AGCTACACCTTGGAGTCTAGGATTAACCAGGCTGAAAGGGAACGCAACTTGACGGAAGAGAACACCGAGA
 AGGAACTGAAAACCTCAAAGCCTCTATTACGTCCTCAGCATCCATCTGGTACCCTGCGAGCACCGGGA
 GACCTACCAGAAGCTTCTGGAAGACATCGCAGTCTTGCATCGTCTGGCTGCACGCTCTCCAGCCGGCT
 GAAGTGGTGGGTGCTGTGCGCCAGGAAAAGCGCATGTCAAAGGCCACGGAAGTATGATGCAGTATGTGG
 AGAATCTGAAGAGAACGTACGAGAAGGACCATGCTGAGCTCATGGAATTTAAGAACTCGCAATCAGAA
 TTCTAGTCGCAGCTGTGGGCCCTCTGAAGACGGGGTTCCTCGCACGGCGCGATCTATGTCCCTCAGGATG
 GGAAAGAACATGCCCCGTCGGAGGGTCAAGCTTGTGGTTCCCAAGTTAATGCCCTGAACCTGCCTG
 GCCAAGCCCCAGCTCATACCCATGCCCTCTCTCCAGCTCTGTCTGAATCGACCAACGGGAGAAGCAG
 CATCTCCACCTCTCCAGTGTGCTGCACTTTTGGAAAATGGAAGACAATGCAGAGGCTAACTGTGAA
 GTGTGCGCCCCTGTGCCACTCCCAAGCTACCCGGAGGAGACGAGCCAAGAGGCCAAGGCCAGAGCAGAGG
 AAGAAGCCTACAACAAGGATACCAGGAAGGGTAAAGAAGACCGAAGAACTTCAAGACCTGAAGGAGGA
 GGAAGAGGAACAGAAGGCAGAGAGTCTCAGGAACCAGAAGAGTCAAGAAAACCCAGGAAGACGAGAAG
 GACCAGAGAAGCAGCAAACTTGAAGAAGTGGTCCACTTCTACAAGTATGATATCCCAAATTTGTGTAAC
 ACTGGCAAGTATCTGGATGATGCCGCTGTGATGCTGGTCTTGAAGTGTGCTTGGGCTCTACAGTTC
 CTATAACTCTGCACGGAGCAGGCCGACGGGCCCTGGGAGATCCACCTGCTCTGCAGCCAGCGGGAC
 TCCTGGTGGAGCTCGGGACTCCAGCAAGAGCTGCCAGCAGAGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001105210
Insert Size: 2568 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:	<u>NM_001105210.1</u> , <u>NP_001098680.1</u>
RefSeq Size:	6182 bp
RefSeq ORF:	2568 bp
Locus ID:	308899
Cytogenetics:	1q33
Gene Summary:	<p>This gene is similar to a putative mouse tumor suppressor gene that is frequently disrupted by mouse AIDS-related virus (MRV). The encoded protein, which is found in the membrane of the endoplasmic reticulum, is similar to Jaw1, a lymphoid-restricted protein whose expression is down-regulated during lymphoid differentiation. Studies in mouse suggest that MRV integration at the homologous mouse gene induces myeloid leukemia by altering the expression of a gene important for myeloid cell growth and/or differentiation, and thus this gene may function as a myeloid leukemia tumor suppressor gene. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (2) contains an additional 5' exon, is differently spliced at the initial coding exon, and initiates translation from an in-frame, downstream AUG compared to variant 1. The resulting isoform (b) has a shorter N-terminus compared to isoform a.</p> <p>Sequence Note: This RefSeq transcript and protein were derived from genomic sequence because no rat transcript was available. The extent of this transcript and the encoded protein are supported by orthologous mouse data.</p>