

## Product datasheet for **RN200093**

### Irag1 (NM\_001105211) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Irag1 (NM_001105211) 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:**

&gt;RN200093 representing NM\_001105211

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAAAACCAACAGCTGATTTGTGGCTCTTGGATCCTGGAAAGGGAACCCAGCTTGGAAACAGGGATGG  
 GAAGGAGTTGACTTGTCTTTTGGCGTCTCCCCAGCCTGCGGAGCCCAAGCCTCTTGGAGCATCTTTGG  
 GTTGTACAGCAGAGGTTCCAGGCACGCACAGCCACTCCAACCAGGCGGCTGCCATGCCCCACATTCTCT  
 GAGGATGAGGAGCCCCCGGAGAGCCACAGGCAGCCAGACCCAAGACTCTCCCTCTGCAGGACCGTTTTT  
 GCAGCCCTCCCACAATCATCCTGACGGGGGATGCCAGTTCACCTGGAGGAGAGACTGACACAAATCTGGT  
 CAAGAGGGCTCCCAGCCCCACCGCAGGCTTCCACCGACACCTGAAGGTCTCCACTGCCTCGTGACT  
 TCTGTGGACCCCTTGGGGCACGTATTGACCTGGTAAATGACCAGCTGCCGGACATCAGCATCTCAGAAG  
 AGGACAAGAAGAAAACCTGGCAGTCTAGAAGAAGCCAAGTTGGTTAGCGAGCGGTTCTGACCCGCCG  
 CGGGAGGAGATCAAGGAGCAGCCTCGGAGACGCCCATCAGCTGTTTCTCAAACCTCAGCTCTGGAGCT  
 TCTCTGCATCCTCTAGGAGTTGCTCGTTCACCATCTCCACACCACAGGTTTTGACACATGCAGTGGCC  
 CACAGTCCCTCTGCCGGGATCACCAGCACAGCAAAAGGGACATGAGGATGATGTCTTCTCGTCTCACCT  
 CGGAGAGCCTAATGCCTCCAAAGGGCTAGCTGACCGGAAGCAGAAATGACCAGAGGAAAGTGTCTCAAGGC  
 AGACTGGCTCCTCGCTCTCCACAGTGGAGAAATCCAAAGAACTTTCAGTAGAACAAAAGGAAAACCTTCG  
 ATCCCCCTCAGCATCTGGAGGCCACCCATGGCTCAGACCTCTGGAGCAAGCGTCAGTGGGAAAATGGC  
 GCTGAACAGTCCCAGCCTGGCCCTGCGGAGATGGAGCTGGGGAGGCAGCTTCTGAAGACAGCCAGGGAA  
 GACAACCTCTGCCAGAACCACAGTCCAGGGCTCAGGAGGAACGGCCTCCCCACATTCTCAGGGACAGG  
 GCTCTGCTGGAGAGCTTATGGGGCCCAAGGCTGGCTCCAAGGCTGAGCCGAGGCTCTGTGTCGGGCC  
 CCCTCTGATTGCGGGGGTCTCCTGGGACAGCAGCCCTGAAGAACCTGGTCCCTCGCTGCAAAAGGTGCTC  
 GCTAAGCTGCCTCTGGCAGGAAGAAAAGCGGTTTCCAGGCAAAAGCCAGCCAGCCAAGCCACCGGGGC  
 TCAAAGACTTCCAGATACAAGTACAGCCGGTGCAGATGCAGAAGCTGACCAAGCTTGGGAGGAACACAT  
 CCTGATGAGAAACCAGAACCTGGTGGGGTTCAAGCTCCCTGAACTGAGTGAAGCTGCAGAGCAAGACAAA  
 GGAGTCTCATCTGAGCTTGGCCAGCAGCTGAGGAAGAAGAATCAAAGAGTGGTCTGGATGTGATGCCCA  
 ACATTTCTGACATATTGCTACGTAACCTAGGGTTCACAAGTCACTCACTGGAAGCGCCCTCCGCTCAC  
 AGAAAAGGAAGTCGAGAACGTGTTGTACAAGTGCCTTGGCCTTAGAAATGACAGCTACACCTTGGAG  
 TCTAGGATTAACCAGGCTGAAAGGGAACGCAACTTGACGGAAGAGAACACCGAGAAGGAACTGGAAAAC  
 TCAAAGCCTCTATTACGTCCTCAGCATCCATCTGGTACCCTGCGAGCACCGGGAGACCTACCAGAAGCT  
 TCTGGAAGACATCGCAGTCTTGATCGTCTGGCTGCACGCCTCTCCAGCCGGGCTGAAGTGGTGGGTGCT  
 GTGCGCCAGGAAAAGCGCATGTCAAAGGCCACGGAAAGTATGATGCAGTATGTGGAGAATCTGAAGAGAA  
 CGTACGAGAAGGACCATGCTGAGCTCATGGAAATTAAGAACTCGCAATCAGAAATCTAGTCGAGCTG  
 TGGGCCCTCTGAAGACGGGGTCTCTCGCACGGCGCATATGTCCCTCACGATGGGAAAGAACATGCC  
 CGTCGGAGGTCAGCGTTGCTGTGGTCCCAAGTTAATGCCCTGAACCTGCCTGGCCAAGCCCCAGCT  
 CATCACCCATGCCCTCTCTCCAGCTCTGTCTGAATCGACCAACGGGAGAAGCAGCATCTCCACCTCTCC  
 AGTGTGCTGCCTGCATTTTGGAAAATGGAAGACAAATGCAGAGGCTAACTGTGAAGTGTGCGCCCTGTG  
 CCACTCCCAAGCTACCCGAGGAGACGAGCCAAGAGGCCAAGGCCAGAGCAGAGGAAGAAGCCTACAACA  
 AAGGATACCAGGAAGGGGTAAGAAGACCGAAGAACTTCAAGACCTGAAGGAGGAGGAAGAGGAACAGAA  
 GGCAGAGAGTCTCAGGAACCAGAAGAGGTGGAAGAAACCCAGGAAGACGAGAAGGACCAGAGAAGCAGC  
 AAATTGAAGAACTGGTCCACTTCTACAAGTCAATGATCCCAAATTTGTGCAACACTGGCAAGTATCT  
 GGATGATGGCCGCTGTGATGCTGGTCTTGGTGTGCTTGGGCTCTACAGTTCCTATAACTCTGCAC  
 GGAGCAGGCCGACGGGCCCTGGGAGATCCACCTGCTCTGCAGCCAGCGGGACTCCTGGTGGAGCTCG  
 GGACTCCAGCAAGAGCTGCCAGCAGAGCAGTAG

 A**CGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

<b>ACCN:</b>	NM_001105211
<b>Insert Size:</b>	2763 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>	<u><a href="#">NM_001105211.1</a></u> , <u><a href="#">NP_001098681.1</a></u>
<b>RefSeq Size:</b>	5935 bp
<b>RefSeq ORF:</b>	2763 bp
<b>Locus ID:</b>	308899
<b>Cytogenetics:</b>	1q33
<b>Gene Summary:</b>	<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 (1) encodes the longer isoform (a). 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>