

## Product datasheet for **SC316790**

### **IRAG1 (NM\_001100167) Human Untagged Clone**

#### **Product data:**

|               |   |
|---------------|---|
| Product Type: | Expression Plasmids                       |
| Product Name: | IRAG1 (NM_001100167) Human Untagged Clone |
| Tag:          | Tag Free                                  |
| Symbol:       | IRAG1                                     |
| Synonyms:     | IRAG; JAW1L; MRV11                        |
| Vector:       | <u>pCMV6 series</u>                       |



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|                             |   |
|-----------------------------|---|
| <b>Fully Sequenced ORF:</b> | <p>&gt;NCBI ORF sequence for NM_001100167, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGGCCCTGAACAGCCCTCAGCCTGGCCCCGTGGAGAGCGAGCTGGGGAAGCAGCTCTTG AAAACGGGCTGGGAGGGCAGCCCTCTGCCGAGAAGTCCAACCCAGGATGCGGCAGGAGTG GGTCCCCCAGCCTCCCAGGGGAGAGGCCAGCTGGAGAGCCGATGGGGCCCGAGGCTGGC TCCAAAGCTGAGCTTCCACCCACTGTGTCCCGCCCCCGCTGCTGCGAGGGCTCTCCTGG GACAGTGGCCCTGAAGAACCTGGCCCCCGGCTGCAGAAAGTGCTTGCCAAGCTGCCACTG GCAGAGGAAGAAAAGCGTTTTGCAGGCAAGGCCGCGGCAAGCTGGCCAAGGCCCTGGT CTCAAAGACTTTTCAGATACAAGTGCAGCCCGTGCGGATGCAGAAACTGACCAAGCTCCGA GAGGAGACATCCTGATGAGAAATCAGAACTTAGTGGGGCTCAAGCTTCCAGACCTTAGT GAAGCAGCTGAGCAGGAAAAAGGCTTCTTCTGAACTCTCCCAGCTATTGAGGAAGAA GAGTCAAAGAGTGGCTTAGATGTCATGCCTAATATTTCTGATGTGCTGCTGCGCAAAGTG CGGGTCCACAGGAGTCTCCCTGGAAGTGGCCCTCCACTCACTGAAAAGGAAGTTGAGAAC GTGTTTGTGCAACTGTCCTTGGCCTTTAGAAATGACAGCTACACTCTGGAATCTAGAATT AACCAGGCTGAAAGGGAACGCAACCTGACAGAGGAGAACTGAGAAAGAACTGGAAAAC TTCAAAGCTTCCATTACGTCCTCAGCTTCACTCTGGCACCCTGTGAGCACCAGGAAACC TACCAGAAAGTTGCTGGAGGACATCGCTGTCTGCACCGCCTGGCTGCCCGCCTCTCCAGC CGAGCTGAGGTGGTAGGCGCCGTCGCCAGGAAAAAGCGCATGTCGAAAGCAACGGAAGTG ATGATGCAGTATGTGGAGAATCTAAAGAGGACGTATGAGAAGGACCATGCGGAGCTCATG GAGTTTAAAAAGCTTGCAAAATCAGAAATCAAGCCGACGCTGTGGCCCTCTGAAGATGGG GTCCCTCGCACGGCAGGTCCATGTCCCTCACGCTGGGAAAGAATATGCCTCGCCGGAGG GTCAGCGTTGCTGTGGTTCTTAAGTTAATGCCCTGAATCTGCCTGGCCAACTCCCAGC TCATCATCCATTCCCTCCTTACCAGCCTGTGCGAATCACCCAATGGGAAAGGCAGCCTA CCTGTCACTTCAGCACTGCCTGCACCTTTTGAAAAATGGAAGACAAATGGGGACCCAGAT TGTGAAGCCTCTGCTCCTGCGCTGACCCTGAGCTGCCTGGAGGAGCTTAGTCAGGAGACC AAGGCCAGGATGGAGGAAGAAGCCTACAGCAAGGGATTCCAAGAAGGTCTAAAGAAGACC AAAGAACTTCAAGACCTGAAGGAGGAGGAGGAAGAAGAGAGTGAGAGTCCTGAGGAA CCTGAAGAGGTAGAAGAACTGAGGAAGAGGAAAAGGGCCCAAGAAGCAGCAAATTGAA GAATTGGTCCATTTCTTACAAGTCATGTATCCCAAAGTGTGTGAGCACTGGCAAGTGATC TGGATGATGGCTGCAGTGATGCTGGTCTTGACTGTTGTGCTGGGGCTCTACAATTCCTAT AACTCTTGTGAGAGCAGGCTGATGGGCCCTTGAAGATCCACTTGCTCGGCAGCCAG AGGGACTCCTGGTGGAGCTCAGGACTCCAGCATGAGCAGCCTACAGAGCAG </pre> |
| <b>Restriction Sites:</b>   | Please inquire  |
| <b>ACCN:</b>                | NM_001100167  |
| <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>OTI Annotation:</b>      | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.  |
| <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).  |

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| <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>NM_001100167.1, NP_001093637.1</u>   |
| <b>RefSeq Size:</b>           | 6021 bp   |
| <b>RefSeq ORF:</b>            | 1794 bp   |
| <b>Locus ID:</b>              | 10335   |
| <b>UniProt ID:</b>            | <u>Q9Y6F6</u>   |
| <b>Cytogenetics:</b>          | 11p15.4   |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Vascular smooth muscle contraction  |
| <b>Gene Summary:</b>          | <p>This gene is similar to a putative mouse tumor suppressor gene (Mrvi1) 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. This protein is a substrate of cGMP-dependent kinase-1 (PKG1) that can function as a regulator of IP3-induced calcium release. Studies in mouse suggest that MRV integration at Mrvi1 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. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene, and alternative translation start sites, including a non-AUG (CUG) start site, are used. [provided by RefSeq, May 2011]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (c) is shorter at the N-terminus, compared to isoform a. Both variants 4 and 6 encode the same isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. CCDS Note: This CCDS representation uses a downstream AUG start codon compared to CCDS44539.1. It is supported by the mRNA AK127209.1, which lacks the exon containing the alternative non-AUG (CUG) start codon described in PMID:10321731.</p> |