

Product datasheet for **RG215686**

IRAG1 (NM_001100163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAG1 (NM_001100163) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRAG1
Synonyms:	IRAG; JAW1L; MRV11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG215686 representing NM_001100163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

CTGACTGGGGATGCCACTTCACCAGAAGGAGAAACCGACAAAAACCTGGCCAACAGAGTTACAGTCCCC
 ACAAGAGGCTTTCTCACCAGACACTTGAAGGTGTCCACTGCCTCCCTGACATCTGTGGACCCCGGGGCA
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 GCGCTGTGGAAGAAGCCAAGTTGGTGAAGTGAAGGATTCTGACCCGCCGTGGGAGGAAGTCCAGGAGCA
 GCCCCGGAGACTCCCATCAGCTGTTTCCCGAACCTCAGCCCCAGCGTTCTCTACATCTCTCGGAG
 CAACTCACTTACAGTCCCCACCCGCCAGGTTTGGATGTGTGCAGTGGCCCGCCATCCCCTCTGCCTGGA
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 GGCTAGCTGACAGGAAGCAGAATGACCAGAGGAAAGTGTCTCAGGGCAGGCTGGCTCCTCGTCTCTCC
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 ACACCCAAAGGCCTAGCTCCTGTTACAAACAGCAGTGGGAAAATGGCCCTGAACAGCCCTCAGCCTGGCC
 CCGTGGAGAGCGAGCTGGGAAGCAGCTTTGAAAACGGGCTGGGAGGGCAGCCCTCTGCCGAGAAGTCC
 AACCCAGGATGCGGCAGGAGTGGGTCCCCAGCCTCCCAGGGGAGAGGCCAGCTGGAGAGCCGATGGGG
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 GGGACAGTGGCCCTGAAGAACCTGGCCCCGGCTGCAGAAAGTGTGGCCAAGTGGCAAGTGGCAAGTGGCAGAGGA
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 CAAGTGCAGCCCGTGGGATGCAGAAACTGACCAAGCTCCGAGAGGAGCACATCTGATGAGAAATCAGA
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 CCATTTCTTACAAGTATGTATCCCAAAGTGTGCAGCACTGGCAAGTATCTGGATGATGGCTGCAGT
 ATGCTGGTCTTACTGTTGTGCTGGGGCTCTACAATTCCTATAACTCTTGTGCAGAGCAGGCTGATGGGC
 CCCTTGAAGATCCACTTGTGCGCAGCCAGAGGGACTCCTGGTGGAGCTCAGGACTCCAGCATGAGCA
 GCCTACAGAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215686 representing NM_001100163
 Red=Cloning site Green=Tags(s)

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LTGDATSPEGETDKNLANRVHSPHKRLSHRHLKVSTASLTSVDPAGHIIDL VNDQLPDISISEEDKKKLN
ALLEEAKLVSERFLTRRGRKSRSSPGDSPA VSPNLSASPTSSRSNSLTVPTPPGLDVCSGPPSPLPG
APPQKGDEADVSSPHPGEPNVPKGLADRKQNDQRKVSQGR LAPRPPVVEKSKEIAIEQKENFDPLQYPET
TPKGLAPVTNSSGKMALNSPQGPVSELGKQLLKTGWEGSPLPR SPTQDAAGVGPPASQGRGPAGEPMG
PEAGSKAELPPTVSRPPLL RGLSWDSGPEEPGPR LQKVLAKLPLAEE EKRFAGKAGGKLAKAPGLKDFQI
QVQPVRMQKLT KLRREEHILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEEKSGLDVMPNISDVL
LRKLRVHRSLPGSAPPLTEKEVENVFVQLSLAFRND SYTLESRINQAERERNLTEENTEKELENFKASIT
SSASLWHHCEHRETYQKLL EDIAVLHRLAARLSSRAEVGAVRQEKRM SKATEVMMQYVENLKRTYEKDH
AELMEFKLANQNSSRSCG PSEDGVPRTARSMSLTLGKNM PRRRVSVAVVPKFNALNLPGQTPSSSSIPS
LPALSESPNGKGS L PVT SALPALLENGKTNGDPDCEASAPAL TLSCLEELSQETKARMEEEAYSKGFQEG
LKKTKELQDLKEEEEQKSE SPEEPEEVEETEEEEKGRSSKLEELVHFLQVMPKLCQHWQVIWMAAV
MLVLT VVLLGLYNSYNSCAEQADGPLGRSTCSAAQRDSWWS SGLQHEQPTEQ
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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: [NM_001100163.3](#)

RefSeq Size: 6323 bp

RefSeq ORF: 2466 bp

Locus ID: 10335

UniProt ID: [Q9Y6F6](#)

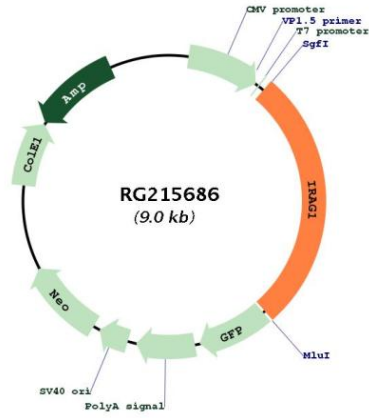
Cytogenetics: 11p15.4

Protein Families: Transmembrane

Protein Pathways: Vascular smooth muscle contraction

Gene Summary: 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]

Product images:



Circular map for RG215686