

Product datasheet for **RG239371**

IRAG1 (NM_001206880) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAG1 (NM_001206880) 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:

>RG239371 representing NM_001206880.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGTAAAAGCTCCCCAGAGTGAAGAGAGGCTGGCCAGAGGAGAAAGGAGAATAACTCAGTTTTAGCC
TGTGGAGCCCAGGCCTCTTGGAGCATCTTTGGGCTGACGCAGCGGAGGTTCCGGGCACACGTGGCCAC
TCCCAGCAGGAGGCTGCCATGCCCCACATTCCCGAGGACGAGGAGCCCCCGGAGAGCCACAGGCAGCC
CAGAGCCCTGCCGGCAAGGTCCTCTGCCGAGGAGTATCTTGACAGTCCAACCTCCACGATTGTCTCTG
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TCCTATAACTCTTGTGACAGCAGGCTGATGGGCCCTTGAAGATCCACTTGCTCGGCAGCCAGAGG
GACTCCTGGTGGAGCTCAGGACTCCAGCATGAGCAGCCTACAGAGCAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239371
 Blue=ORF Red=Cloning site Green=Tag(s)

MVKAPQSEERLARGGKENNSVLACGAQASWSIFGADAAEVPGTRGHSQQEAMPHIPEDEEPPGEPQAA
 QSPAGQGPPAAGVSCSPTPTIVLTGDAT SPEGETDKNLANRVHSPHKRLSHRHLKVSTASLTSVDPAGH
 IDLVNDQLPDISISEEDKKNLALLEAKLVSERFLTRRGRKSRSSPGDSPSAVSPNLSASPTSSR
 SNSLTVPTPPGLDVCSGPPSPLPGAPPQKGEADVSSPHGPEPHILMRNQNLVGLKLPDLSEAAEQEK
 GLPSELSPAIEEEESKSGLDVMPNISDVLLRKL RVHRSLPGSAPPLTEKEVENVFVQLSLAFRNDSYTL
 ESRINQAERERNLTEENTEKELENFKASITSSASLWHHCEHRETYQKLLIEDIAVLHRLAARLSSRAEVV
 GAVRQEKRMKATEVMMQYVENLKRTYEKDHAELEMEFKLANQNSRSCGSEDGVPRTARMSLTLGK
 NMPRRRVSVAVVPKFNALNLPQQTPSSSSIPSLPALSESPNGKGSPLVTSALPALLENGTNGDPDCEA
 SAPALTLSCLEELSQETKARMEEEAYSKGFQEGLEKTKELQDLKEEEEEEQKSESPPEEVEEETEEEEK
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 DSWWSSGLQHEQPTEQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001206880

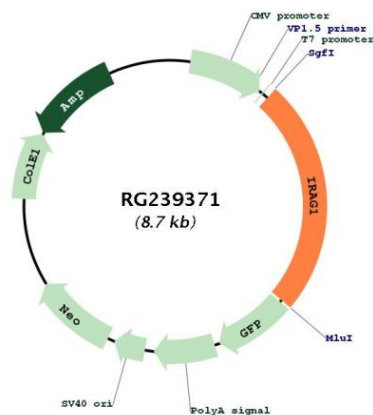
ORF Size: 2118 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).
RefSeq:	NM_001206880.2
RefSeq Size:	5758 bp
RefSeq ORF:	2121 bp
Locus ID:	10335
UniProt ID:	Q9Y6F6
Cytogenetics:	11p15.4
Protein Families:	Transmembrane
Protein Pathways:	Vascular smooth muscle contraction
MW:	77.3 kDa
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 RG239371