OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG221913

Irag1 (NM_194464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irag1 (NM_194464) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irag1
Synonyms:	BB115629; Irag; Mrvi1; R; Ris1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221913 representing NM_194464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCCACATTCCTGAGGATGAGGAGCCCCCCGGAGAGCCACAGGCAGCCCAGACCCAAGACTCTCCCT
CTGCAGGACCATTTCCCAGCCCTCCCACAATCGTCCTGACGGGGGATGCCAGTTCACCTGAAGGAGAGAC
TGACAAAAACCTAGTCAACAGGGCTCCCAGCCCTCACCGGAGGCTTTCCCACCGACACCTGAAGGTCTCC
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TCAGCATCTCAGAAGAGGACAAGAAAAAAAACCTGGCACTTCTGGAAGAAGCCAAGTTGGTGAGTGAGCG
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CTCAGCTCTGGGGCTTCTCCTGCATCCTCCAGGAGCTGCTCCCTCACCATCTCCACATCACCAGGTTTGG
ACATATGCAGTGGCCCTCAGTCCCCTCTGCCAGGAGCACCACCACAGCAAAAGGGACATGAGGACGGGGT
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CCAAGCCACCTGGGCTCAAAGACTTCCAGATACAAGTGCAGCCGGTGCGCATGCAGAAGCTGACCAAGCT
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GACCTATCAGAAACTTCTGGAAGACATCGCCGTCTTGCATCGTCTGGCTGCCCGCCTCTCCAGTCGGGCT
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TTCCTATAACTCCTGCACAGAGGAGGCCGATGGGCCCCCTGGGAGATCCACCTGCTCTGCAGCCCAGCGG
GACTCCTGGTGGAGCTCCGGACTCCAGCAAGAGCTGCCAGCAGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221913 representing NM_194464
Red=Cloning site Green=Tags(s)

MPHIPEDEEPPGEPQAAQTQDSPSAGPFPSPPTIVLTGDASSPEGETDKNLVNRAPSPHRRLSHRHLKVS
TASLTSVDPSGHVIDLVNDQLPDISISEEDKKKNLALLEEAKLVSERFLTRRGRKSRSSLGDSPSAVSPN
LSSGASPASSRSCSLTISTSPGLDICSGPQSPLPGAPPQQKGHEDGVSSPCPGEPNVSKGLADLKQNDQR
KVSQGRLAPRSPTVEKTKELTVEQKENFDPLQHVEATPMAQASGASISGKMALNSPQPGPAEMELGRQLL
KTAREGNPLPRTTAQGSGGTVSPHSLGQGSAGEPMGPKAGSKAELRSPVSRPPLIRGVSWDSSPEEPGPL
LQKVLAKLPLAEEEKRFPGKAKPAKPPGLKDFQIQVQPVRMQKLTKLREEHILMRNQNLVGFKLPELSEA
AEQDKGVSPELAPAAEEEESKSGLDVMPNISDILLRKLRVHKSLTGSAPPLTEKEVENVFVQLSLAFRND
SYTLESRINQAERERNLTEENTEKELENFKASITSSANIWYHCEHRETYQKLLEDIAVLHRLAARLSSRA
EVVGAVRQEKRMSKATEVMMQYVENLKRTYEKDHAELMEFKKLANQNSSRSCGPSEDGVPRTARSMSLTM
GKNMPRRRVSVAVVPKFNALNLPGQAPSSSPMPSLPALSESSNGKSSISVSPALPALLENGKTNAEANCE
VGAPVPLPSCLEETSQETKAKAEEEAYSKGYQEGVKKTEELQDLKEEEEEEQKTESPEEPEEVEETQEDE
KDQGSSKLEELVHFLQVMYPKLCQHWQVIWMMAAVMLVLSVVLGLYSSYNSCTEEADGPPGRSTCSAAQR
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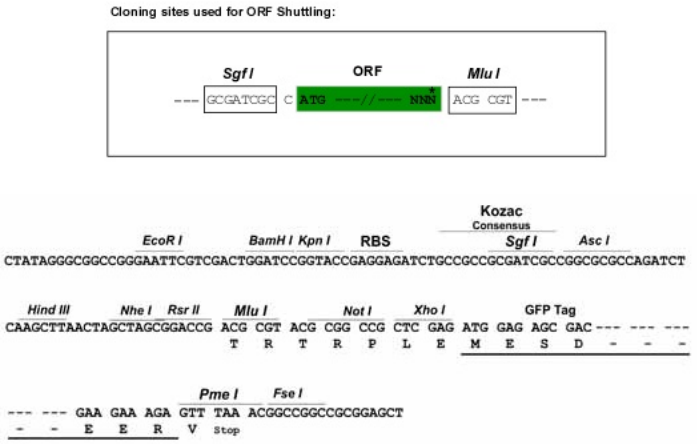
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_194464
ORF Size:	2568 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).

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_194464.3, NP_919446.2

RefSeq Size: 5835 bp

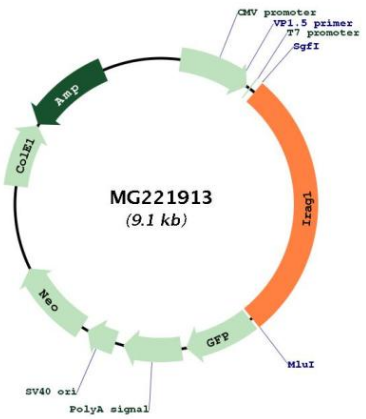
RefSeq ORF: 2571 bp

Locus ID: 17540

Cytogenetics: 7 57.9 cM

Gene Summary: This gene is a putative tumor suppressor gene that is frequently disrupted by mouse AIDS-related virus (MRV). The encoded protein participates in signaling by nitric oxide (NO) to inhibit intracellular calcium release and platelet aggregation in cardiovascular tissue. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2013]

Product images:



Circular map for MG221913