

Product datasheet for **MR221865**

Irag1 (NM_010826) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irag1 (NM_010826) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irag1
Synonyms:	BB115629; Irag; Mrvi1; R; Ris1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221865 representing NM_010826
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAAAACCAAAGACTCATCTGTGGCTCTTGGATCCTGGAAATGGAACCCAGTTTGGGACAGGGATGG
 GAAGGAGTTTGACTTGTCTTTTGGCATCTCCCCAGCCTGCGGAGCCCAAGCCTCTTGGAGCATCTTTGG
 GTTGGCACAGCAGAGGTTCCAGGCACGCACAGCCACTCCAACCAGGCGGCTGCCATGCCCCACATTCTCT
 GAGGATGAGGAGCCCCCGGAGAGCCACAGGCAGCCAGACCCAAGACTCTCCCTCTGCAGGACCATTTTC
 CCAGCCCTCCCACAATCGTCTGACGGGGATGCCAGTTCACCTGAAGGAGAGACTGACAAAAACCTAGT
 CAACAGGGCTCCCAGCCCTACCGGAGGCTTCCACCGACACCTGAAGGTCTCCACTGCTTCGCTGACT
 TCTGTGGACCCCTCGGGCATGTATTGACCTGGTGAATGACCAGCTGCCGGACATCAGCATCTCAGAAG
 AGGACAAGAAAAAACCTGGCACTTCTGGAAGAAGCCAAGTTGGTGAGTGAGCGGTTCTGACCCGCCG
 TGGGAGGAAATCAAGGAGCAGCCTCGGAGACTCCCATCAGCTGTTTCTCAAACCTCAGCTCTGGGGCT
 TCTCTGCATCCTCCAGGAGCTGCTCCCTACCATCTCCACATCACCAGGTTTGGACATATGCAGTGGCC
 CTCAGTCCCCTCTGCCAGGAGCACCACCACAGCAAAAGGGACATGAGGACGGGGTCTCCTCGCCTTGCCC
 CGGAGAGCCTAATGTCTCAAAGGGCTAGCTGACCTGAAGCAGAAATGACCAGAGAAAAGTGTCTCAAGGC
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 GGCAACCTCTGCCAGAACCACAGCCAGGGCTCAGGAGGAACGGTCTCCACATTCCCTGGGGCAGG
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 CCCCTGATTCGGGGGGTCTCCTGGGACAGCAGCCCTGAAGAACCAGGTTCCCTGCTGCAGAAGGTGCTC
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 TGAAGAAGAAAGTTGAGAACGTGTTGTACAAGTGTCTTGGCCTTTAGAAATGACAGCTACACCTTGGAG
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 TCTGGATGATGGCCGAGTGTGCTGGTCTTGTGTTGTTCTCGGGCTGTACAGTTCTATAAATCCTG
 CACAGAGGAGGCCGATGGGCCCTGGGAGATCCACCTGCTCTGCAGCCAGCGGACTCCTGGTGGAGC
 TCCGACTCCAGCAAGAGCTGCCAGCAGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >MR221865 representing NM_010826
 Red=Cloning site Green=Tags(s)

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MQNQRAHLWLLDPGNGTQFGTGMGRSLTCPFGISPACGAQASWSIFGVGTAEVPGTHSHSNQAAAMPHIP
EDEEPPGEPQAAQTQDPSAGPFPSPPTIVLTGDASSEGETDKNLVNRAPSPHRRLSHRHLKVSTASLT
SVDPSGHVIDLVNDQLPDISISEEDKKNLALLEEAKLVSERFLTRRGRKSRSSLDGSPSAVSNLSSGA
SPASSRCSLTIISTSPGLDICSQPQLPGAPPQQKGHEDGVSSPCGEPNVSKGLADLKQNDQRKVSQG
RLAPRSPTVEKTKELTVEQKENFDPLQHV EATPMAQASGASISGKMALNSPQPGPAEMELGRQLLKTA
GNPLPRTTAQGGSTVSPHSLGQGSAGEPMGPKAGSKAELRSPVSRPPLIRGVSWDSSPEEPGPLLQKVL
AKLPLAEEEEKRFPGKAKPAKPPGLKDFQIQVQPVVMQKLTCLREEHILMRNQNLVGFKLPELSEAAEQDK
GVSPELAPAAAAEESKGLDVMPNISDILLRKL RVHKS LTGSAPPLTEKEVENVFVQLSLAFRND SYTLE
SRINQAERERNLTEENTEKEL ENFKASITSSANIWYHCEHRETYQKLEDI AVLHRLAARLSSRAEVVGA
VRQEKRM SKATEVMMQYVENLKR TYEKDHAELMEFKKLANQNSSRSCG SEDGVPRTARMSLTMGKNMP
RRRVSVAVVPKFNALNLPQAPSSPMPSPAL SESSNGKSSISVSPALPALLENGKTNAEANCEV GAPV
PLPSCLEETSQETKAKAE EEA YSKGYQEGVKKTEELQDLKEEEEEEQKTESPEEPEEVEETQEDEK DQGS
SKLEELVHFLQVMYPKLCQH WQVIWMAAVMLVLSVVLGLYSSYNSCTEEADGPPGRSTCSAAQRDSWWS
SGLQQELPAEQ
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



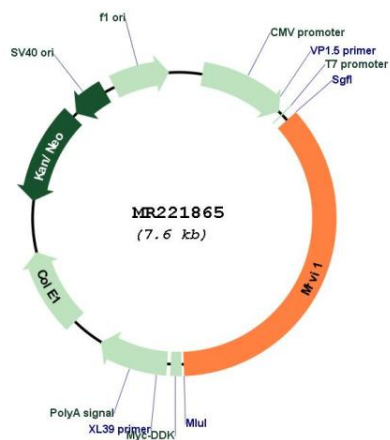
* The last codon before the Stop codon of the ORF

ACCN: NM_010826

ORF Size: 2763 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:	<ol style="list-style-type: none">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_010826.5 , NP_034956.2
RefSeq Size:	5958 bp
RefSeq ORF:	2766 bp
Locus ID:	17540
Cytogenetics:	7 57.9 cM
MW:	100.3 kDa
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 MR221865