

Product datasheet for **MR221913**

Irag1 (NM_194464) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Irag1 (NM_194464) 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:

>MR221913 representing NM_194464
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCCACATTCCTGAGGATGAGGAGCCCCCGGAGAGCCACAGGCAGCCAGACCCAAGACTCTCCCT
 CTGCAGGACCATTCCAGCCCTCCACAAATCGTCTGACGGGGATGCCAGTTCACCTGAAGGAGAGAC
 TGACAAAAACCTAGTCAACAGGGCTCCAGCCCTCACCGAGGCTTTCCACCGACACCTGAAGGTCTCC
 ACTGCTTCGCTGACTTCTGTGGACCCCTCGGGGCATGTCATTGACCTGGTGAATGACCAGCTGCCGGACA
 TCAGCATCTCAGAAGAGGACAAGAAAAAACCTGGCACTTCTGGAAGAAGCCAAGTTGGTGAAGTGAAGC
 GTTCTGACCCGCGTGGGAGGAAATCAAGGAGCAGCCTCGGAGACTCCCATCAGCTGTTTCTCCAAAC
 CTCAGCTCTGGGGCTTCTCCTGCATCCTCAGGAGCTGCTCCCTACCATCTCCACATCACCAGGTTTGG
 ACATATGCAGTGGCCCTCAGTCCCCTCTGCCAGGAGCACCACCACAGCAAAGGGACATGAGGACGGGT
 CTCTCGCCTTGGCCGGAGAGCCTAATGTCTCCAAAGGCTAGTGACCTGAAGCAGAATGACCAGAGA
 AAAGTGTCTCAAGGCAGACTGGCTCCTCGCTCTCCACAGTGGAGAAAACCAAGGAATTACAGTAGAAC
 AAAAGGAAAACCTTGTATCCCTTCAGCAGTGGAGGCCACGCCATGGCTCAGGCTTCTGGAGCAAGCAT
 CAGTGGGAAAATGGCTCTGAACAGCCCCAGCCTGGCCCTGCTGAGATGGAGCTGGGAGGCAGCTCCTG
 AAGACAGCCCGGAAGGCAACCTCTGCCAGAACACAGCCAGGGCTCAGGAGGAACGGTCTCCCCAC
 ATCCCTGGGGCAGGGCTCTGCTGGAGAGCCTATGGGACCAAGGCTGGCTCCAAGGCTGAGCTGAGGTC
 CCCTGTGTCCCGCCCCCTGATTCGGGGGTCTCTGGGACAGCAGCCCTGAAGAACCAGGTCCTCCCTG
 CTGCAGAAGGTGCTCGCTAAGCTGCCCCGGCAGAGGAAGAGAAGCGGTTCCAGGCAAAGCAAGCCAG
 CCAAGCCACTGGGCTCAAAGACTTCAGATACAAGTGCAGCCGGTGCAGATGCAGAAGTGAACAACT
 CCGGGAGGAACACATCCTGATGAGAAACAGAACCCTGGTGGGGTTCAAGCTCCCTGAAGTGAAGTGGCC
 GCGGAGCAGGACAAGGAGTCTCACCTGAACTCGCCCCAGCAGCTGAGGAAGAAGTCCAAGAGTGGTC
 TGGATGTGATGCCAACATTTCTGACATATTGCTGCGCAAACCTAGGGTTCACAAGTCACTCACTGGAAG
 CGCCCTCCACTCACTGAAAAGGAAAGTTGAGAAGTGTGTTGTACAACCTGCTTGGCCTTTAGAAATGAC
 AGCTACACCTTGGAGTCTAGAATTAACCAGGCTGAAAGGGAGCGCAACCTGACAGAAGAGAACACGGAGA
 AGGAACTGAAAACCTCAAAGCCTCCATAACGTCTCAGCAAACATCTGGTACCCTGCGAACACCCGGGA
 GACCTATCAGAACTTCTGGAAGACATCGCCGTCTTGCATCGTCTGGCTGCCCGCTCTCCAGTCGGGT
 GAAGTGGTGGGTGCTGTTCCGCCAGAAAAGCGCATGTCAAAGGCCACGGAAGTATGATGCAGTATGTGG
 AGAATCTGAAGAGAACGTATGAGAAGGACCATGCTGAGCTCATGGAATTTAAGAACTTGAACATCAGAA
 TTCCAGTCGCAGCTGTGGGCCCTCTGAAGACGGGGTTCCTCGAACGGCGCGATCTATGTCCCTACAATG
 GGAAAGAACATGCCCCGCGGAGGGTCAAGCTTGTGTTCCCAAGTTAATGCCCTGAACCTGCCTG
 GCCAAGCCCCGAGCTCTTACCCATGCCTTCCCTACCAGCTCTGTCTGAATCGTCCAATGGGAGAGCAG
 CATCTCCGTCTCCCCAGCGCTGCCTGCACTTTTGGAAAATGAAAAGACAAATGCAGAGGCTAACTGCGAA
 GTGGGTGCCCTGTGCCACTCCCAAGCTGTCTGGAGGAGACGAGCCAGGAGACCAAGGCCAAGGCAGAGG
 AAGAAGCCTACAGCAAAGGATACCAGGAAGGGTAAAGAAGACCGAAGAACTTCAAGACCTGAAGGAGGA
 GGAGGAGGAAGAACAAGAGCAGGAGTCCCAGGAACCAAGAGGTAGAAGAAACCCAGGAGGACGAG
 AAGGACCAGGGAAGCAGCAAACCTGAAGAAGTGGTCCACTTCTACAAGTCATGTATCCTAAATTGTGTC
 AACACTGGCAAGTATCTGGATGATGGCCGAGTGTGCTGGTCTTGAAGTGTGTTCTCGGGCTGTACAG
 TTCCTATAACTCTGCACAGAGGAGGCCGATGGGCCCTGGGAGATCCACCTGCTCTGCAGCCAGCGG
 GACTCCTGGTGGAGCTCCGACTCCAGCAAGAGCTGCCAGCAGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221913 representing NM_194464
 Red=Cloning site Green=Tags(s)

MPHIPEDDEEPPGEPQAAQTQDSPSAGPFPSPPTIVLTGDASSPEGETDKNLVNRAPSPHRRLSHRHLKVS
 TASLTSVDPSPGHVIDLVNDQLPDISISEEDKKNLALLEEAKLVSERFLTRRGRKSRSSLDSPSAVSPN
 LSSGASPASSRSCSLTISTSPGLDICSQPQSPPLGAPPQQKHEDGVSSPCPGEPNVSKGLADLKQNDQR
 KVSQGR LAPRSPTVEKTKELTVEQKENFDPLQHVEATPMAQASGASISGKMALNSPQGPAPMELGRQLL
 KTAREGNPLPRTTAQGSGGTVSPHSLGQGSAGEPMGPKAGSKAELRSPVSRPPLIRGVSWDSSPEEPGPL
 LQKVLAKLPLAEEEEKRFPGKAKPAKPPGLKDFQIQVQPVVMQKLTCLREEHILMRNQNLVGFKLPELSEA
 AEQDKGVSPELAPAAAAEESKGLDVMPIISDILLRKLRVHKS LTGSAPPLTEKEVENVFVQLSLAFRND
 SYTLESRIQAERERNLTEENTEKELENFKASITSSANIWYHCEHRETYQKLLIEDIAVLHRLAARLSSRA
 EVVGAVRQEKRMKATEVMMQYVENLKRTYEKDHAELEMEFKLANQNSSRSCGPSSEDPVPTARSMSLTM
 GKNMPPRRRVSAVVPKFNALNLPQAPSSSPMPSLPALSESSNGKSSISVSPALPALLENGKTNAEANCE
 VGAPVPLPSCLEETSQETKAKAEEEEAYSKGYQEGVKKTEELQDLKEEEEEQKTESPEEPEEVEETQEDE
 KDQGSKLEELVHFLQVMYPKLCQHWQVIWMAAVMLVLSVVLGLYSSYNSCTEEADGPPGRSTCSAAQR
 DSWWSSGLQQELPAEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_g01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

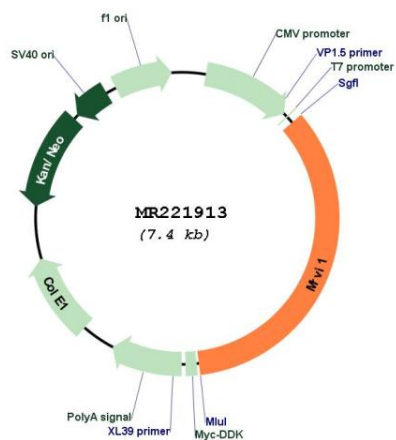
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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|-------------------------------|---|
| 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: | <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_194464.3 , NP_919446.2 |
| RefSeq Size: | 5835 bp |
| RefSeq ORF: | 2571 bp |
| Locus ID: | 17540 |
| Cytogenetics: | 7 57.9 cM |
| MW: | 93.6 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 MR221913