

## Product datasheet for **MG218568**

### **Irak2 (NM\_172161) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Irak2 (NM_172161) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irak2
Synonyms:	6330415L08Rik; AI649099; IRAK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218568 representing NM\_172161  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTGCTACATCTACCAGCTGCCGTCTGGGTGCTGGACGACCTGTGCCGAATATCGACACGCTCA  
 GTGAGTGGGACTGGATGCAGTTCGTTCCCTACGTGATCACAGACCTGACACAGCTGAGGAAGATCAAGTC  
 CATGGAGAGGGTCCAGGGGTGAGCATACCCGGGAGCTACTGTGGTGGTGGTCCATGCGCAGGCCACG  
 GTCCAGCAGCTGGTGGACCTCCTGTGTACCTGGAACCTACCGAGCTGCCAGATTGTCTTGAGCTGGA  
 AGCCGGTTCCTGAGAGCACATCTCCCTCCAGCCTCCAGAGGCTGTGAAGCCAGGGGCTGTGGCTAC  
 TTCTAGAAGAAACCTCAAGGATGAACAGGAGAAAGTCCGGCTGTGAAGCCACGTTCCCTCTAGACACA  
 GGGCCCATCATGGCTGGGCCCAGCGGCAGCGTCCGTGCGAGATGGATGCCCTTGTTCCTGAAAAGT  
 ATGACCCGACTCTCCAGTCTAAGTATTGCAGTACTCCACATCTGCCCAAGCAAGAAAGGCTTTT  
 GGGTTTGGCCGAGACAGGCTTTTCTGGAGTGAAGCAGATGTCGTCGAAGCAACTGAGGACTTTGACCAA  
 AGCCACCGAATACGCGAGGGCACCTTTGCCGATATCTACCAGGGTCAAAGGAACGGTGTGGCCTTCGCT  
 TCAAGAAGCTCAGGGAGGTGGCCGGCTCCAGTCCAGGGTCCATGGACAGATTCTACAGGAGAGATGCA  
 GCTCTGCCTCAGATGCTGCCACGCAACGCTCTACCTCTGCTGGGTTTCTGCACTGGAAGACAGTCCAC  
 AGCCTCATCTACCCCTACATGGCAAATGGCTCTCTGCACGACAGACTCTGGGCTCAGGGCAACTCAGACA  
 TGCTGCCCTGGCCACAGCGGGCCAGCATCTGCTCAGGGCTGCTTCTAGCCGTGGAGCACCTGCATAGCCT  
 GGACATCATCCACAGCAATGTTAAGAGTGCCAACGCTTCTGCTGGACCAGCATCTTAACCCCAAGCTGGCT  
 CATCTGTGGCTCACCTCATCCGACAATAAAAAGACCAAATATACCGTCATGAGGACTCACCTGTTCC  
 AGCCCTCAGCTGCATATCTGCCGAACACTTCATCAGAGTGGGGCAGCTGACCAAGCAGGTGGACATCTT  
 CAGCTGTGGAATTGTATTGGCCGAGGTCCTTACCGGCATCCCTGCGATGGACAAGGACCGCAGTCCAGTT  
 TACCTGAAGGATTTGCTTCTCAGTGAGATTCCCAACAGTACTTCTTCACTGCTCCAGGAAGACCAGCA  
 TGGGGAAGGCAGTGGTGAAGAGATCTGCCAGAGACATGTGGAGAAGAGGGCAGGGCTGCTGCCTGAGGC  
 CTGTGAGGAAGCCTGGGCCACCGCTGTGAGTGTCTGCCTGCGGAGGCGCAATGCCAGCGTGGAGGAGGCA  
 CGAGTCTCCCTGGCCGGGTGGAGGAGCAACTCCGAGGGCAGCTGTCCCTCCCTGGAGCAGGGTTTCTG  
 AGGCCACAGGCTCATCTCCAATACCCCGAGGAAACAGATGACGTTGACAATCCAGCCTCAGCGTCCC  
 TTCTTTGGTTATGATGGCATCGTCCCAGGGGCTGCCTCCTCCTCACTCTTACGGGACATGGAGCAGCA  
 CAGCCATCCACAGTGGGAGACAGGAGGCTGACTCCTCGTCAGAGGCTTGACAGGCCACAGACACCCC  
 AGAACGCTACAGAGACTTCAATGGAAAATTGAGATCAATGAAGCCAAAAGGAGACTGATGGAGAACATCGT  
 ACTCTACAAAGAAGAGAGACTGGACAGCAGCGAGCTTTTGGACCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218568 representing NM\_172161  
 Red=Cloning site Green=Tags(s)

MACYIYQLPSWLDLDCRNIDTLSEWDMQFASYVITDLTQLRKIKSMERVQGVSIITRELLWWWSMRQAT  
 VQQLVDLLCHLELYRAAQIVLSWKVPPESTPLPAFPEAVKPGAVATSRRLNKDEQEKVVPKPRSLDDT  
 GPIMAGAQRPCEMDAPCSLKTADPSPQSKYCSTSTSAPKQERLLGLPGDRLFWEADVQATEDFDQ  
 SHRISEGTFADIYQQRNGVAFKFKLREVAGSSPGSMDRFLQAEMQLCLRCCHANVLP LLGFCTGRQFH  
 SLIYPYMANGSLHDRLWAQNSDMLPWPQRASICSGLLLA VEHLHSLDI IHSNVKSANVLLDQHLNPKLA  
 HPVAHPHPDNKKTKYTVMRTHLFQASAAYLPEHFIRVGQLTKQVDIFSCGIVLAEVLTGIPAMDKDRSPV  
 YLKDLLLLSEIPNSTSSVCSRKTSMGKAVVKEICQRHVEKRAGLLPEACEEAWATAVSVCLRRRNASVEEA  
 RVSLAGVEEQLRGQLSLPWSRVSEATGSSSNTPEETDDVNSSLSVPSLVMMASCPGAASSPLFTGHGAA  
 QPSTSGRQEADSSSEACTGPQTPQATETSWKIEINEAKRRLMENIVLYKEERLDSSELFGP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_172161

**ORF Size:** 1866 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\\_172161.4](#), [NP\\_751893.3](#)

**RefSeq Size:** 3209 bp

**RefSeq ORF:** 1869 bp

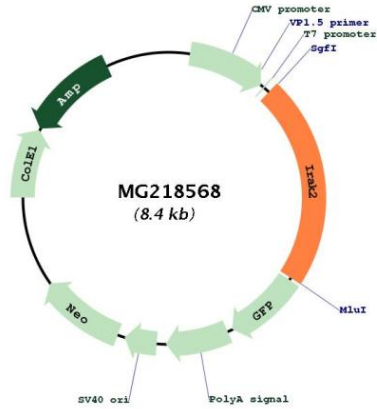
**Locus ID:** 108960

**UniProt ID:** [Q8CFA1](#)

**Cytogenetics:** 6 52.82 cM

**Gene Summary:** Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG218568