

## Product datasheet for **MG207686**

### **Irak2 (BC085324) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Irak2 (BC085324) 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:**

>MG207686 representing BC085324  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGGGGCCAGCGCAGCGTCCGTGCGAGATGGATGCCCTTGTTCCCTGAAAAGCTGATGCACCCG  
 ACTCTCCCAAGTCTAAGTATTGCACTACTCCACATCTGCCCAAGCAAGAAAGCTTTGGGTTTGCC  
 CGGAGACAGGCTTTTCTGGAGTGAAGCAGATGTCGTCCAAGCACTGAGGACTTTGACCAAAGCCACCGA  
 ATCAGCGAGGGCACCTTTGCCGATATCTACCAGGGTCAAAGGAACGGTGTGGCCTTCGCCTTCAAGAAGC  
 TCAGGGAGGTGGCCGGCTCCAGTCCAGGGTCCATGGACAGATTCTACAGGCAGAGATGCAGCTCTGCCT  
 CAGATGCTGCCACGGAACGTCTACCTCTGCTGGGTTTCTGCACTGGAAGACAGTTCCACAGCCTCATC  
 TACCCCTACATGGCAAATGGCTCTCTGCACGACAGACTCTGGGCTCAGGGCAACTCAGACATGCTGCCCT  
 GGCCACAGCGGGCCAGCATCTGCTCAGGGCTGCTTCTAGCCGTGGAGCACCTGCATAGCCTGGACATCAT  
 CCACAGCAATGTTAAGAGTGCCAAAGTCTTGTCTGGACCAGCATTTTAACCCCAAGCTGGCTCATCTGTG  
 GCTCACCCCTCATCCCACAATAAAAAGACCAAATATACCGTCATGAGGACTCACCTGTTCCAGGCCCTCAG  
 CTGCATATCTGCCGGAACACTTCATCAGAGTGGGGCAGCTGACCAAGCAGGTGGACATCTTCAGCTGTGG  
 AATTGTATTGGCCGAGGTCTTACCGGCATCCCTGCGATGGACAAGGACCGCAGTCCAGTTTACCTGAAG  
 GATTTGCTTCTCAGTGAGATTCCCAACAGTACTTCTTCAGTCTGCTCCAGGAAGACCAGCATGGGGAAGG  
 CAGTGGTGAAGAGATCTGCCAGAGACATGTGGAGAAGAGGGCAGGGCTGCTGCCTGAGGCTGTGAGGA  
 AGCCTGGGCCACCGCTGTGAGTGTCTGCCTGCGGAGGCGCAATGCCAGCGTGGAGGAGGCACGAGTCTCC  
 CTGGCCGGGGTGGAGGAGCAACTCCGAGGGCAGCTGTCCCTTCCGGGAGCAGGGTTTCTGAGGCCACAG  
 GCTCATCTTCCAATACCCCGGAGGAAACAGATGACGTTGACAATCCAGCCTCAGCGTCCCTTCTTGGT  
 TATGATGGCATCGTGCCAGGGGCTGCCTCTCCACTCTTACGGGACATGGAGCAGCACAGCCATCC  
 ACCAGTGGGAGACAGGAGGCTGACTCCTCGTCAGAGGCTTGCACAGGCCACAGACACCCAGAACGCTA  
 CAGAGACTTATGAAAATTGAGATCAATGAAGCCAAAAGGAGACTGATGGAGAACATCGTACTCTACAA  
 AGAAGAGAGACTGGACAGCAGCGAGCTCTTTGGACCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207686 representing BC085324  
 Red=Cloning site Green=Tags(s)

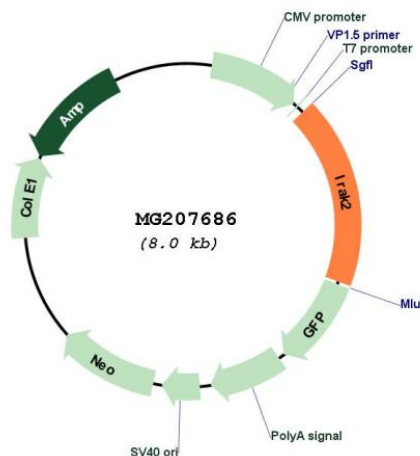
MAGAQRQRPCMDAPCSLKTDPDPSQSKYCSTSTSAPKQERLLGLPGDRLFWEADVQATEDFDQSHR  
 ISEGTFADIIYQQRNGVAFKFLREVAGSSPGSMDRFLQAEMQLCLRCCHANVLP LLGFCTGRQFHSLI  
 YPYMANGSLHDRLWAQNSDMLPWPQRASICSGLLLA VEHLHSLDIIHSNVKSANVLLDQHFNPKLAHPV  
 AHPHPDNKTKYTVMRTHLFQASAAYLPEHFIRVGQLTKQVDIFSCGIVLAEVLTGIPAMDKDRSPVYK  
 DLLLSEIPNSTSSVCSRKTSMGKAVVKEICQRHVEKRAGLLPEACEEAWATAVSVCLRRRNASVEEARVS  
 LAGVEEQLRGQLSLPGSRVSEATGSSSNTPEETDDVDNSSLVPSLVMMASCPGAASSPLFTGHGAAQPS  
 TSGRQEADSSSEACTGPQTPQATETSWKIEINEAKRRLMENIVLYKEERLDSSELFGP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** BC085324

**ORF Size:** 1439 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:** [BC085324](#), [AAH85324](#)

**RefSeq Size:** 3049 bp

**RefSeq ORF:** 1439 bp

**Locus ID:** 108960

**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]