

## Product datasheet for **RR204289**

### **Irak2 (NM\_001025422) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Irak2 (NM_001025422) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irak2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR204289 representing NM\_001025422  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTTGCTACATCTACCAGCTGCCGTCTGGTACTGGACGACCTGTGCCGAATATCGACACGCTCA  
 GTGAGTGGGACTGGATGCAGTTCGCTTCCTATGTGATCACAGACCTGACACAGCTGAGGAAGATCAAGTC  
 CATGGAGAGGGTTCAGGGGGTGAGCATCACCCGGAGCTGCTGTGGTGGTGGTCCATGCGCAGGCCACT  
 GTCCAGCAGCTGGTGGACCTCCTGTGTACCTGGAACCTACCGAGCTGCCAGATTGTCTGAGCTGGA  
 AGCCGGCTCCTGACAGCTGTCTCCCTCTCGGCCTCCAGAGGCTGTGAAGCCAGGCTCTGTGGCTAC  
 TTCTGGAAGAACTCAAGGATGACCAGAAGAAGGCCAGCCTGTGAAACCATGCTCCTTTCTGAGCTCA  
 GGGACCACCATGGCTGGCGCCAGCAGCAGGCCTCATGCCAACGTCATGCGAGGAGGATGCCCTTGTT  
 CCCTGAAAAGTGTACCTGACTCTCTCCAATCTAAGTATTGTAGCACGTCATCCCAAGCAGGAAAA  
 GCTTTTGAATTTGCCCGGAGACAGGCTTTTCTGGAGTGAAGCAGATATCGTTCAAGCAACTGAGGACTTT  
 GACCAAAGCCACCGAATCAGTGAGGGGACCTTTGCCGATATCTACCGGGGACAAAGGAATGGCGTGGCCT  
 TTGCCTTCAAGAGGCTCAGGGAGGTGACTGGCTCAAGTCCAGGGTCCATGGACAGATTCTCGAGCGCGA  
 GATGCAGCTCTGCCTCAGATGCTGCCACCCCAACATCCTACCTCTGCTGGGCTTCTGCACTGGAAGACAG  
 TTCCACAGCCTCATCTACCCCTACATGGCCAATGGCTCTCTGCAGGACAGACTCTGGGCTCAGGGCGACT  
 CAGACATGTTGTCTGGCCACAGCGTGCCAGCATCTGCTCAGGGCTTCTTCTAGCTGTGGAACACCTGCA  
 TAGCCTGGATATCATCCACAGTAATGTGAAGAGTGCCAACGTTTTGCTGGACCAGCATCTAACCCCAAG  
 CTAGCCCATCCAGTAGCTCACCCGTGTCCACCAATAAAAAGACCAAAATACTGTAATGAAGACTCACC  
 GTTCCAGGCCTCAGCTGCGTATCTGCCTGAAAACCTTCATCCGAGTGGGACAGCTCACCAAGCAAGTAGA  
 CATCTTACAGCTGTGGAATTGTATTGGCCGAGGTTCTACCGGCATCCCTGCAATGGACAAGGACCGCAGT  
 CCAGTTTACCTGAAGATTTGCTTCTCAGTGAGATTCCAGCAATACTTCTCAGTCCACTCCAGGAAGA  
 CCAGCATGGGGAAGGTGGTGGTGAAGAGATCTGCCAGAAGCACTTGGAGAGGAAGGCAGGGCTACTGCC  
 TGAGGCCTGCGCGGAACTGGGCCACCGCTGTGAGCGTCTGCCTGCGGAGACGGGAGGCCAGCCTGGAG  
 GAGGCACGAGTCTCCATGGCTGGGTAGAGGAGCAGCTCAGAGGGCAGCTGTCCCTCCCTGGAGCAGGG  
 TTTCTGAGGATACGGCTCATCTTCTAATACCCAGAGGAAACGGATGACGTTGACAATCCAGCCTCAG  
 TGTCCCTCTTCTGTTATGGTGGTGTATGTGCAAGGTTTTCTCCCTCCACCATCCATGGGAAATGGG  
 ACAGCACAGCCATCTACCAGTGGGAGGCAGGAGGCTGACTCCTCCTCGAGGCTTGTGCAGGCCACAGC  
 CACCTCAGGAAGCTACAGAGACTTCATGAAAAATTGAGATCAATGAGGCCAAAAGGAGACTGATGGAGAA  
 CATCTACTGTATAAAGAAGAGAACTGGACAGCGTTGAGCTTTTGGACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204289 representing NM\_001025422  
 Red=Cloning site Green=Tags(s)

MACYIYQLPSWVLDLRCRNIIDLSEWDMQFASYVITDLTQLRKIKSMERVQGVISITRELLWWWSMRQAT  
 VQQLVDLLCHLELYRAAQIVLSWKPAPDSLSPLSAFPEAVKPGPVATSGRNLKDDQKKGQVPKPCSFLSS  
 GTTMAGAQQQASCQRPEEDAPCSLKTDPDSLQSKYCSSTIPKQEKLLNLPGRDLFWSEADIVQATEDF  
 DQSHRISEGTAFADIYRQQRNGVAFKRLREVTGSSPGSMDFLQAEMLCLRCCHPNILPLLGFTGRQ  
 FHSLIYPYMANGLQDRLWAQGDSDMLSWPQRASICSGLLLAVEHLHSLDIHNSNVKSANVLLDQHLNPK  
 LAHPVAHPCPTNKKTKYVMKTHLFQASAAYL PENFIRVGQLTKQVDIFSCGIVLAEVLTGIPAMDKDRS  
 PVYLDKLLLEIPSNSSVHSRKTSMGKVVVKEICQKHLERKAGLLPEACAETWATAVSVCLRRREASLE  
 EARVSMAGVEEQLRGQLSLPWSRVEDTGSSTNPEETDDVDNSSLVSPSSVMVVCARVSSPPSMGNG  
 TAQPSTSGRQEADSSSEACAGPQPPEATETSWKIEINEAKRRLMENILLYKEEKLDSEVLFPG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_001025422

**ORF Size:** 1872 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\\_001025422.1](#), [NP\\_001020593.1](#)
**RefSeq Size:** 2977 bp

**RefSeq ORF:** 1875 bp

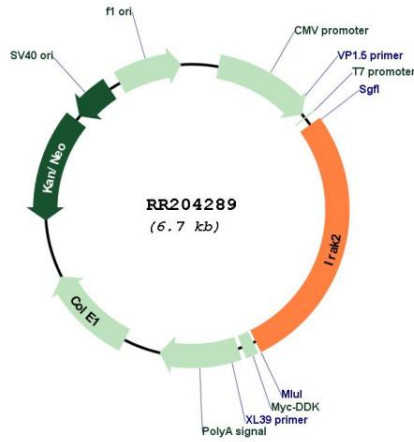
**Locus ID:** 362418

**UniProt ID:** [Q4QQS0](#)
**Cytogenetics:** 4q42

**MW:** 69.2 kDa

**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 RR204289