

## Product datasheet for **RR214308**

### **Irak4 (NM\_001106791) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Irak4 (NM_001106791) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irak4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR214308 representing NM\_001106791  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAAGCCTTTGACACCGTCAACGTACGTACGCAGCCTCAATGTTGGAATCCTCAGGAAGCTGTCGG  
 ATTTTATTGATCCCCAAGAAGGCTGGAAGAACTAGCAGTAGCTATTAAGGCCATCGGGTATGACAG  
 ATACAATCAGTTCATATAAGGAGATTCGAAGCCCTACTTCAGACTGGAAAGAGCCCACTTGTGAAGT  
 CTGTTTACTGGGGACCACTGCAAGTGGGCGACCTTGTGGATCTTCTGATCCAGATTGAGCTGT  
 TTGCCCTGCCACTCTCTGCTGCCAGATGCTGTTCCCAAGCCGTCCACAGCCTACCTCTAGAGAAGC  
 AGCAACAGTGGCGCAGGCACACAGGCCCTGCCAGGAAAAGAACAGGACAACCGTAACGCCTGCGCTTGG  
 CAGAAGCTAGAACCAGCTGTGAGCTGCCGACTCCTCCAGTCCAGGCCATCAAAGTGTAGAATTTAGCG  
 AACTCGATTTCAGTTTCTCATTATGAAGTGAAGAGCATCACGAATGACTTCGACGAGCGACCTGT  
 GTCTATCGGGGCAACGAATGGGAGAGGGGGGATTTGGAGTGGTGTACAAAGGCTGTGTGAACAACACA  
 ACCGTAGCGGTGAAGAAGCTTGGAGCAATGGTGGAAATCAGTACTGAAGAACTAAAGCAACAGTTTGACC  
 AAGAAATTAAGTAATGGCAAGTGTGAGCAGCAAAACCTGGTGGAGCTGCTGGGCTTCTCGAGCGACAG  
 TGACAACCTGTGCTTAGTGATGCTTACATGCCCAATGGTTCCTTGTCTAGACAGACTGTCTGCCTGGAC  
 GGAACGCCACCACTTTCTGGCAGATGAGATGCAAGATTGCTCGGGTGCAGCAACGGCATCCGTTTTT  
 TGCATGAAATCATCATATTCACAGAGATTAAGAGTGCAATATCTTACTAGACCAAGACTTTACTGC  
 CAAATATCTGACTTTGGGCTTGACGGCTTCCGCGAAGCTTGCAAAACGGTCATGACCAGCCGAATT  
 GTGGGCACAACGGCTTATATGGACCTGAAGCTTTGCGAGGAGAAATAACACCAATCTGACATCTACA  
 GCTTCGGTGTGGTTTATTGGAGCTGATAACCGGACTTGGGCTGTGGATGAAACCGCGAACCTCAACT  
 ACTACTGGATATTAAGAAGAGATTGAAGACAAGGAGAAGACGATCGAAGATTGCACAGACGAGAAGATG  
 AGCGATGCGGACCTGCGTCGGTCGAGGCGATGTACTCTGTTGCTAGCCAGTGTCTGCACGAGAAGAAAA  
 ACAGACGCCAGACATTGCAAGGTTCAACAGCTGCTACAAGAGACCTCTGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214308 representing NM\_001106791  
 Red=Cloning site Green=Tags(s)

MSKPLTPSTYVRSNLNVGILRKLSDFIDPQEGWKKLAVAIKKPSGDDRYNQFHIRRFEALLQTGKSPTCEL  
 LFDWGTNCTVGDLVDLLIQIELFAPATLLLPDAVPQAVHSLPPREAATVAQHRPCQEKNRRTTVPALA  
 QKLEPSCELPDSSSPGHQSVEFSDTRFHSFSFYELKSITNDFDERPVSIGGNRMGEGGFVVYKGCVNNT  
 TVAVKKLGAMVEISTEELKQQFDQEIKVMAKCQHENLVELLGFSSDSNCLVYAYMPNGSLLDRLSCLD  
 GTPPLSWHMRCKIARGAANGIRFLHENHHIHRDIKSANILLDQDFTAKISDFGLARASAKLAQTVMTSRI  
 VGTAYMAPEALRGEITPKSDIYSFGVVLLELITGLAAVDENREPQLLLDIKEEIEDKEKTIEDCTDEKM  
 SDADPASVEAMYSVASQCLHEKKNRPDIAKVQQLQETSA

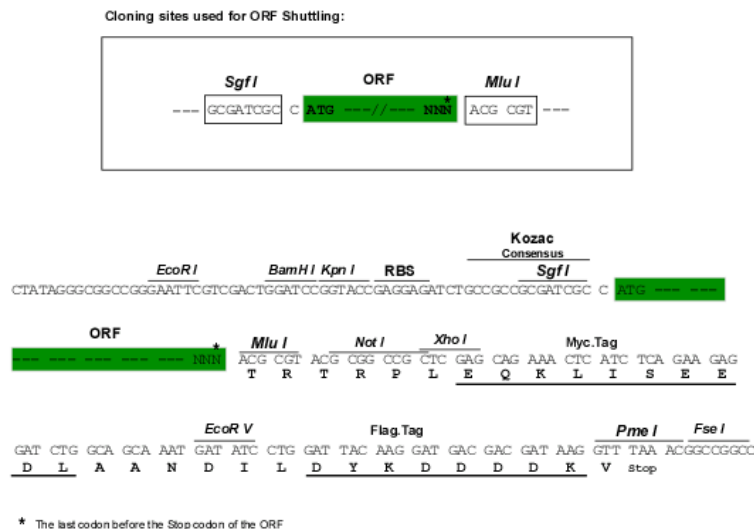
**TR**TRPLE**QKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja3041\\_a05.zip](https://cdn.origene.com/chromatograms/ja3041_a05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001106791

**ORF Size:** 1383 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

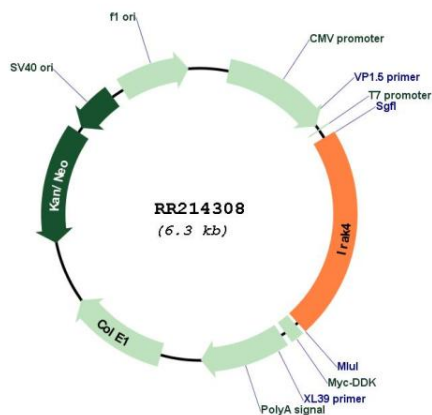
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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\_001106791.2, NP\_001100261.2  
 RefSeq Size: 2323 bp  
 RefSeq ORF: 1386 bp  
 Locus ID: 300177  
 Cytogenetics: 7q35  
 MW: 51.1 kDa

### Product images:



Circular map for RR214308