

## Product datasheet for **MC219634**

### **Irak3 (NM\_028679) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Irak3 (NM_028679) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Irak3
Synonyms:	4833428C18Rik; AI563835; IRAK-M
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219634 representing NM\_028679  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCGGCCGGTGC GG GCGCCGTGGCGCGCTGTCCGCACAGTTGCTGCTCTTCGACCTGCCGCCCGCAC  
TGCTGGGAGAGCTTTGCGGGATCCTGGACAGCTGCGATGGCCCGCTCGGCTGGCGGGCCTGGCGGAGCG  
ACTTTCAAACAGCTGGCTGGATGTTCTGTCATATTGAAAAGTACGTAAACCAAGGTAAAAGTGGAACAAGA  
GAATTGCTCTGGTCTGGGCACAGAAAAACAAGACGATCGGCGACCTTTTAGAGGTTCTCCAGGACATGG  
GGCATCAACGAGCTATCCACTTAATCATCAACTATGGAGTAAGCTGGACTCCTTCAGTGCAGACGCATCA  
CGAGTTCATTCCCGAGCTTCCACCTGAGGTGAAGCATGCGTGCAGAGAAAACGACCTGGACCTCTG  
GAACCAGCCAATGTCACAGTGGATAATGTTCTTGTTCCTGAACATAATGAAAAAGGAACACTGCAGAAAA  
CCCCTATCAGCTTCCAGAGTATCCTAGAAGGAACCAACATTTCCACAAAGACTTCTGATTGGAGAAGG  
GGAGATATTCGAAGTATACAGAGTGGACATTCGAAACCAAGCATATGCTGTTAAATTGTTTAAACAGGAG  
AAAAAATGCAACTAAAGAAGCACTGGAAGAGATTTTTATCAGAACTGGAAGTCTACTCCTGTTCCGTC  
ACCCCCACATACTAGAGCTGGCTGCATATTTACGGGAGACTGAGAACTTTGCTGGTTTATCCCTATAT  
GAGCAACGGGACGCTTTTCGACAGATTACAGTGCACAAATGGCACAACCCCGCTTTCTGGCACGTTTCGA  
ATCAGCGTATTGATAGGAATAGCCAAAGCCATCCAATACTTGACAACACTCAGCCGTGCGCCGTATCT  
GTGGCAACGTTTCCAGTGCAACATACTCTGGATGACCAGCTCCAACCCAACTAACGGATTTTGTCTGC  
AGCGCACTTCCGACCAATCTAGAGCAGCAGAGTTCTACCATAAATATGACCGGGCGGTGGCAGGAAACAT  
CTGTGGTACATGCCAGAAGAATACATCAGACAGGGAAGACTTCCGTTAAAAGTGTCTACAGCTTCG  
GAATCGTGATCATGGAGGTTCTAACGGGCTGCAAAGTGGTGGTGGATGACCCGAAACACGTTTCAGCTGCG  
GGACCTCCTCATGGAAGTATGGAGAAAAGAGGCCTAGACTCCTGCCTGTCTTCTTAGACAGGAAGATA  
CCACCCTGCTCCTCGAACTTCTCTGCAAAGCTTCTCTCTGGCGGGCCGGTGTGTGGCAACGAAGGCCA  
AGTTAAGACCCACGATGGACGAAGTCTGTCTCTGGAGAGCACCCAGCCTAGCTTGTATTTGCAGA  
AGACCCTCCACGTCCTTGAAGTCTTCCAGGTGCTCTTCCACTGTTCTTGGATAATGTCCCAAGTATT  
CCAGTAGAAGATGATGAAAACCAGAATAACCATTCAGTACCTCCAAGGAAGTTTGGGGACAGATAGAG  
TGACTCAGAAAACCCCTTTGAATGCAGCCAGTCTGAGGTCACCTTTCTAGGCTTGGACCGAAACAGAGG  
GAACAGGGGAAGTGAAGCGGATTGCAACGTGCCAGTCTTCTCATGAGGAATGCTGGTCCCGAGAGCTT  
GTGGCGCCATCCAGGACTTAAGTCTACTGTGATCAGTTTGGGCTCGTCTTGGGAAGTACCAGGCCATT  
CTTATGGGAGCAAGCCAATGGAGAAGAGGTGTTCTCTGGGCTCTTTTGCAGTGAGCATGAACAGTCCAA  
AAAGCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_028679  
**Insert Size:** 1830 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_028679.3</a> , <a href="#">NP_082955.2</a>
<b>RefSeq Size:</b>	2969 bp
<b>RefSeq ORF:</b>	1830 bp
<b>Locus ID:</b>	73914
<b>UniProt ID:</b>	<a href="#">Q8K4B2</a>
<b>Cytogenetics:</b>	10 D2
<b>Gene Summary:</b>	Inhibits dissociation of IRAK1 and IRAK4 from the Toll-like receptor signaling complex by either inhibiting the phosphorylation of IRAK1 and IRAK4 or stabilizing the receptor complex. [UniProtKB/Swiss-Prot Function]