

Product datasheet for **MG227415**

Irak3 (NM_028679) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irak3 (NM_028679) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irak3
Synonyms:	4833428C18Rik; AI563835; IRAK-M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG227415 representing NM_028679
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGCCGGTGGGGGCCCGTGGCGGCTGTCCGCACAGTTGCTGCTCTTCGACCTGCCGCCGCAC
 TGCTGGGAGAGCTTTGCGGGATCCTGGACAGCTGCGATGGCCCGCTCGGCTGGCGGGCCTGGCGGAGCG
 ACTTTCAAACAGCTGGCTGGATGTTCTGTCATATTGAAAAGTACGTAAACCAAGGTAAAAGTGAACAAGA
 GAATTGCTCTGGTCTGGGCACAGAAAAACAAGACGATCGGGACCTTTTAGAGGTTCTCCAGGACATGG
 GGCATCAACGAGCTATCCACTTAATCATCAACTATGGAGTAAGCTGGACTCCTTCAGTGCAGACGCATCA
 CGAGTTCATTCCAGCTTCCACCTGAGGTGAAGCATGCGTGCAGAGAAAACGACCTGGACCTCTG
 GAACCAGCCAATGTCACAGTGGATAATGTTCTTGTTCCTGAACATAATGAAAAAGGAACACTGCAGAAAA
 CCCCTATCAGCTTCCAGAGTATCCTAGAAGGAACCAACATTTCCACAAAGACTTCTGATTGGAGAAGG
 GGAGATATTCGAAGTATACAGAGTGGACATTCGAAACCAAGCATATGCTGTTAAATTGTTTAAACAGGAG
 AAAAAATGCAACTAAAGAAGCACTGGAAGAGATTTTTATCAGAACTGGAAGTTCTACTCCTGTTCCGTC
 ACCCCACATACTAGAGCTGGCTGCATATTTACGGGAGACTGAGAACTTTGCTGGTTTATCCCTATAT
 GAGCAACGGGACGCTTTTCGACAGATTACAGTGCACAAATGGCACAACCCCGCTTTCTGGCACGTTTCGA
 ATCAGCGTATTGATAGGAATAGCCAAAGCCATCCAATACTTGACAACACTCAGCCGTGCGCCGTCATCT
 GTGGCAACGTTTCCAGTGCAAACATACTTTGGATGACCAGCTCCAACCCAACTAACGGATTTTGTCTG
 AGCGCACTTCCGACCAATCTAGAGCAGCAGAGTTCTACCATAAATATGACCGCGGTGGCAGGAAACAT
 CTGTGGTACATGCCAGAAGAATACATCAGACAGGGAAGACTTTCGGTTAAAAGTGTCTACAGCTTCG
 GAATCGTGATCATGGAGTTTCTAACGGGTGCAAAGTGGTGTGATGACCCGAAACAGCTTCAGTTCGG
 GGACCTCCTCATGGAAGTATGGAGAAAAGAGCCCTAGACTCCTGCCTGTCCTTTAGACAGGAAGATA
 CCACCCTGCTCCTCGAACTTCTCTGCAAAGCTTCTCTCTGCGGGCCGGTGTGTGGCAACGAAGGCCA
 AGTTAAGACCCACGATGGACGAAGTCTGTCTCTGAGAGCACCAGCCTAGCTTGTATTTGCAGA
 AGACCCTCCACGTCCTTGAAGTCTTCAAGGTGCTCTTCCACTGTTCTTGGATAATGTCCCAAGTATT
 CCAGTAGAAGATGATGAAAACCAGAATAACCATTCAGTACCTCCAAGGAAGTTTGGGGACAGATAGAG
 TGACTCAGAAAACCCCTTTGAATGCAGCCAGTCTGAGGTCACCTTTCTAGGCTTGGACCGAAACAGAGG
 GAACAGGGGAAGTGAAGCGGATTGCAACGTGCCAGTTCTTCTCATGAGGAATGCTGGTCCCGAGGCTT
 GTGGGCCATCCAGGACTTAAGTCTACTGTGATCAGTTTGGGCTCGTCTTGGGAAGTACCAGGCCATT
 CTTATGGGAGCAAGCCAATGGAGAAGAGGTGTTCTCTGGGCTCTTTGCAGTGAGCATGAACAGTCCAA
 AAAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG227415 representing NM_028679
 Red=Cloning site Green=Tags(s)

MAGRCGARGALSPQLLLFDLPPALLGELCGILDSCDGPLGWRGLAERLSNSWLDVRHIEKYVYVQKSGTR
 ELLWSWAQKNKTIGDLLEVLQDMGHQRAIHLIINYGVSWTPSVQTHHELFPFSPPEVKHACRENDPGL
 EPANVTVDNVLVPEHNEKGLQKTPISFQSILEGTKHFHKDFLIGEGEIFEVYRVDIRNQAYAVKLFKQE
 KKMQLKHKWRFLSELEVLFRPHILELAAYFTETEKLCVYPYMSNGTLFDRLQCTNGTTPLSWHVR
 ISVLIGIAKAIQYLHNTQPCAVICGNVSSANILLDDQLQPKLTDFAAAHFRPNLEQQSSTINMTGGGRKH
 LWYMPEEYIRQGRLSVKTDVYSFGIVIMEVLTGCKVVLDDPKHVQLRDLLMELMEKRGDLSCLSFDRKI
 PPCPRNFSAKLFLAGRCVATKAKLRPTMDEVLSSESTQPSLYFAEDPPTSLSKSFRCPSPLFLDNVPSI
 PVEDDENQNNHSVPPKEVLGTDRTVQKTPFECSQSEVTFGLGLDRNRNGRSEADCNVPSSSHEECWSP
 VAPSQDLSPVTISLGSSEVPGHSYGSKPMKRCSSGLFCSEHEQSKKQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_028679

ORF Size: 1827 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 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.

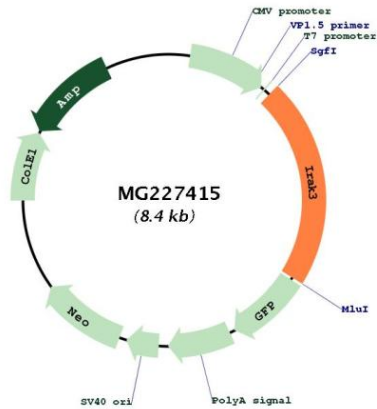
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_028679.4](#)

RefSeq Size: 2969 bp
 RefSeq ORF: 1830 bp
 Locus ID: 73914
 UniProt ID: [Q8K4B2](#)
 Cytogenetics: 10 D2
 Gene Summary: 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]

Product images:



Circular map for MG227415