

Product datasheet for **SC318891**

IRAK4 (NM_001114182) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK4 (NM_001114182) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAK4
Synonyms:	IMD67; IPD1; IRAK-4; NY-REN-64; REN64
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318891 representing NM_001114182.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAACAAACCCATAACACCATCAACATATGTGCGTGCCTCAATGTTGGACTAATTAGGAAGCTGTCA
GATTTTATTGATCCTCAAGAAGGATGGAAGAAGTTAGCTGTAGCTATTAACAAACCATCTGGTGATGAT
AGATACAATCAGTTTACATAAAGGAGATTTGAAGCATTACTTCAAACGGAAAAAGTCCCACTTCTGAA
TACTGTTTGACTGGGGACCACAAATTGCACAGTTGGTATCTTGTGGATCTTTTATCCAAAATGAA
TTTTTGTCTCTGCGAGTCTTTTGTCCAGATGCTGTTCCAAAACCTGTAATACACTACCTTCTAAA
GAAGCTATAACAGTTCAGCAAAAACAGATGCCTTTCTGTGACAAAAGACAGGACATTGATGACACCTGTG
CAGAATCTTGAACAAAGCTATATGCCACCTGACTCCTCAAGTCCAGAAAAATAAAGTTTAGAAGTTAGT
GATACACGTTTTTACAGTTTTTTCATTTTATGAATTGAAGAATGCACAAAATAACTTTGATGAACGACCC
ATTTCTGTTGGTGGTAAATAAATGGGAGAGGGAGGATTTGGAGTTGTATATAAAGGCTACGTAATAAC
ACAACGTGGCAGTGAAGAAGCTTGCAGCAATGGTTGACATTACTACTGAAGAAGTGAACAGCAGTTT
GATCAAGAAATAAAGTAAATGGCAAGTGTCAACATGAAAACCTAGTAGAACTACTTGGTTTCTCAAGT
GATGGAGATGACCTCTGCTTAGTATATGTTACATGCCTAATGGTTCATTGCTAGACAGACTCTCTTGC
TTGGATGGTACTCCACCACTTTCTTGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGCATC
AATTTTCTACATGAAAATCATCATATTCATAGAGATATTAAGTGAATAATCTTACTGGATGAAGCT
TTTACTGCTAAAATATCTGACTTTGGCCTTGCACGGGCTTCTGAGAAGTTTGGCCAGACAGTCATGACT
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GATAAAAAGATGAATGATGCTGATTCCACTTCAGTTGAAGCTATGTAAGTCTGTTGCTAGTCAATGCTG
CATGAAAAGAAAATAAGAGACCAGACATTAAGAAGGTTCAACAGCTGCTGCAAGAGATGACAGCTTCT
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-MluI

ACCN: NM_001114182

Insert 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 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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_001114182.2
RefSeq Size:	4351 bp
RefSeq ORF:	1383 bp
Locus ID:	51135
UniProt ID:	Q9NWZ3
Cytogenetics:	12q12
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway
MW:	51.5 kDa
Gene Summary:	<p>This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1, 2, and 13 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>