

Product datasheet for SC114468

IRAK4 (NM_016123) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: IRAK4 (NM_016123) Human Untagged Clone
Tag: Tag Free
Symbol: IRAK4
Synonyms: IMD67; IPD1; IRAK-4; NY-REN-64; REN64
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_016123 edited
 ATGAACAAACCCATAACACCATCAACATATGTGCGCTGCCTCAATGTTGGACTAATTAGG
 AAGCTGTCAGATTTTATTGATCCTCAAGAAGGATGGAAGAAGTTAGCTGTAGCTATTAAA
 AAACCATCTGGTGATGATAGATAACAATCAGTTTCACATAAGGAGATTTGAAGCATTACTT
 CAAACTGGAAAAAGTCCCACTTCTGAATTACTGTTTGACTGGGGCACCACAAATTGCACA
 GTTGGTGATCTTGTGGATCTTTTGATCCAAAATGAATTTTTTGCTCCTGCGAGTCTTTTG
 CTCCCAGATGCTGTTCCCAAACTGCTAATACACTACCTTCTAAAGAAGCTATAACAGTT
 CAGCAAAAACAGATGCCTTTCTGTGACAAAAGACAGGACATTGATGACACCTGTGCAGAAT
 CTTGAACAAAGCTATATGCCACCTGACTCCTCAAGTCCAGAAAAAAAAGTTTAGAAGTT
 AGTGATACACGTTTTTACAGTTTTTCATTTTATGAATTGAAGAATGTCACAAATAACTTT
 GATGAACGACCCATTTCTGTTGGTGGTAATAAAAATGGGAGAGGGAGGATTTGGAGTTGTA
 TATAAAGGCTACGTAAATAACACAACCTGTGGCAGTGAAGAAGCTTGCAGCAATGGTTGAC
 ATTACTACTGAAGAACTGAAACAGCAGTTTGATCAAGAAAATAAAAGTAATGGCAAAGTGT
 CAACATGAAAACCTTAGTAGAACTACTTGGTTTCTCAAGTGATGGAGATGACCTCTGCTTA
 GTATATGTTTACATGCCTAATGGTTTCAATGCTAGACAGACTCTCTTGCTTGGATGGTACT
 CCACCCTTTCTTGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGCATCAAT
 TTTCTACATGAAAATCATCATATTCATAGAGATATTAAGTGAAGTGAAGTATCTTACTGGAT
 GAAGCTTTTACTGCTAAAATATCTGACTTTGGCCTTGCACGGGCTTCTGAGAAGTTTGGC
 CAGACAGTCATGACTAGCAGAATTGTGGGAACAACAGCTTATATGGCACCAGAAGCTTTG
 CGTGGAGAAATAACACCCAAATCTGATATTTACAGCTTTGGTGGTTTTACTAGAAATA
 ATAACCTGGACTTCCAGCTGTGGATGAACACCGTGAACCTCAGTTATTGCTAGATATTA
 GAAGAAATTGAAGATGAAGAAAAGACAATTGAAGATTATATTGATAAAAAGATGAATGAT
 GCTGATCCACTTCAGTTGAAGCTATGTACTCTGGTGCTAGCCAATGTCGGCATGAAAAG
 AAAATAAGAGACCAGACATTAAGAAGTTCAACAGCTGCTGCAAGAGATGACAGCTTCT
 TAA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_016123 unedited GTAACGTACAAATTTTGTAAATACGAACTCACTATAGGGCGGCCGCGAATTCGCACGAGGG TTCTTCTGTGCGCCGGCTTCAGCAGCCCGCGCCCGGGCAGGAATAGAAGATGAACAAACCC ATAACACCATCAACATATGTGCGCTGCCTCAATGTTGGACTAATTAGGAAGCTGTCAGAT TTTATTGATCCTCAAGAAGGATGGAAGAAGTTAGCTGTAGCTATTAATAAACCATCTGGT GATGATAGATAACAATCAGTTTCACATAAGGAGATTTGAAGCATTACTTCAAACCTGGAAAA AGTCCCACCTTCTGAATTACTGTTTGACTGGGGCACCACAATTGCACAGTTGGTGATCTT GTGGATCTTTTGATCCAAAATGAATTTTTGCTCCTGCGAGTCTTTTGTCCAGATGCT GTTCCAAAACCTGCTAATACACTACCTTCTAAAGAAGCTATAACAGTTCAGCAAAAACAG ATGCCTTTCTGTGACAAAAGACAGGACATTGATGACACCTGTGCAGAATCTTGAACAAAGC TATATGCCACCTGACTCCTCAAGTCCAGAAAAATAAAGTTTGAAGTTAGTGATACACGT TTTACAGTTTTTCATTTTATGAATTGAAGAATGCACAAATAACTTTGATGAACGACCC ATTTCTGTTGGTGGTAATAAAAATGGGAGAGGGAGGATTTGGAGTTGTATATAAAGGCTAC GTAATAACACAACCTGTGCAGTGAAGAAGCTTGCAGCAATGGTTGACATTACTACTGGA GAACTGAAACAGCAGTTTGTCAAGAAAATAAAGTATGGCAAAGTGTCAACATGAAAAC TTAGTAGAACTACTTGGTTTCTCAAGTGATGGAGATGACCTCTGCTTAGTATATGTTTAC ATGCCTAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_016123 unedited GGGGGAACCTGGGGGGATGNNGNCNCCTGNGTACCTGATTGTATTTATTTATGACTGGAG AGTCTCACTACTGTACCCAGGGCTGAAGTGCCCGGCCCCCTTTTTTTTTTTTTT TTTTTGGGGGNGNCNNTGNNCCAGCCTGAACNCCANATGGTGGGACTACAGGT GTCCACCACCACGCTCGTCTAATTTTTGTATTTTAGAAAAATTTGTTGTTTTACCATGTT GGCCAGGCCGGTCTTTTTCTGTTGACCTCAGGTGATCTGCCTGCCTCGGCCCCCAAGT GCTGGGATTTACGGGTATGAGCCACCACATCCAGCCAATGTGACCCATTATCTTTTTTT TTTTATATCAAAAGTCCCGCACAGAACAATTGATTCTCATACTGAGGATCATGCAAAGC TGAAATCCAGGTGTACGCCAGGCTGTGGTTATCATCTGAAGCTTGGAGTACTCTTTTAA GCTGACTCAGATTTTCGGGAGAATTCACCTCCTGGGGTTGCAACTGAGGCCCAATTTT TTTTCTGCTTGTAGACTGGGAGGAAGGGCTCATCTCCTAGAGGCCACCTTTAGGTT TTAGCCAATGGGGCCCTCACATACTTCTTTAGGCTTACCAGGGAAATCTTCTTGCAA GGGTTGCATTGATTAATGGAGGCCCTTTAAAAGTCCGAAAGGGAGTGGTTTGGCACCTTA ACGGCTGGGCCAAATCCCTGAACCGTGGCTGCAACTAATTCTTATGGGGCGGGTAAA TTTGGCGCCCTCATAAGGGATATTTCTAATGGGGAAAAAGACAATCTGTGGCCCTTA TTTTCGAAGTTCCCGGTCAAACGAATTTGTCAACTGATGCAATAAACTTTAACACGAG GGATTCTCTTCCATTTAACGACGGAGTTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_016123
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_016123.1, NP_057207.1</u>
RefSeq Size:	2817 bp
RefSeq ORF:	1383 bp
Locus ID:	51135
UniProt ID:	<u>Q9NWZ3</u>
Cytogenetics:	12q12
Domains:	DEATH, pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway
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 (2) differs in the 5' UTR compared to variant 1. 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>