

Product datasheet for **SC115680**

IRAKM (IRAK3) (NM_007199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAKM (IRAK3) (NM_007199) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAKM
Synonyms:	ASRT5; IRAKM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_007199 edited
 ATGGCGGGAACTGTGGGGCCCGCGCGCTGTGGCGCACACGCTGCTGTTTCGACCTG
 CCGCCCGCGTCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGGCGCGCTGGGC
 TGGCGCGGCTGGCAGAGAGACTTTCAAGCAGCTGGCTGGATGTTCTGTCATATTGAAAAG
 TATGTAGACCAAGGTAAGTGGAAACAAGAGAATTACTTTGGTCTGGGCACAGAAAAAC
 AAGACCATCGGTGACCTTTACAGGTCTCCAGGAGATGGGACATCGTCGAGCTATTCAT
 TTAATTACAAACTATGGAGCAGTGTGAGTCTTCAGAGAAGATTATCAGGAAGTGGA
 TTTCCAAATATATTATCAAGGAAACAGCCAATGTCACCGTGGATAATGTTCTTATTCCT
 GAACATAATGAAAAAGGAGTACTGCTTAAATCTTCCATCAGCTTTCAAAATATCATAGAA
 GGAAGTAGAAATTTCCACAAAGACTTCTAATTGGAGAAGGAGAGATTTTTGAGGTATAC
 AGAGTGGAGATTCAAAACCTAACATATGCTGTCAAATTTTAAACAGGAGAAAAAATG
 CAGTGTAAGAAGCATTGGAAGAGGTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCAT
 CACCCAAACATACTAGAGTTGGCTGCATATTTACAGAGACTGAGAAGTTCTGTCTGATT
 TATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAGTGTGTAGGTGACACGGCC
 CCACTCCCTTGGCACATTGCAATCGGTATTAATAGGAATATCCAAAGCCATTCACTAC
 CTGCACAACGTTCAACCATGCTCGGTATCTGTGGCAGTATATCAAGTGCAAACATCCTT
 TTGGATGATCAGTTTTCAACCCAACTAAGTATTTGCCATGGCACACTTCCGGTCCCAC
 CTAGAACATCAGAGTTGTACCATAAATATGACCAGCAGCAGCAGTAAACATCTGTGGTAC
 ATGCCAGAAGAGTACATCAGACAGGGGAACTTTCCATTAACAGATGTCTACAGCTTT
 GGAATTGTAATAATGGAAGTTCTAACAGGATGTAGAGTAGTGTAGATGATCCAAAACAT
 ATCCAGCTGCGGGATCTCCTTAGAGAATTGATGGAGAAGAGAGCCTGGATTCATGTCTC
 TCATTTCTAGATAAGAAAGTGCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTTCTGT
 TTGGCAGGCCGGTGTGCTGCAACGCGGGCAAAGTTAAGACCATCAATGGATGAAGTTTTA
 AATACTTTGAAAGTACTCAAGCCAGCTTGATTTTTGCTGAAGATCCTCCACATCACTA
 AAGTCTTCAGGTGCTCTCTCCTATTCTGGAGAATGTACCAAGATTCCAGTGGA
 GATGATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGA
 ATGACTCAGAAAACCTCTTTGAAATGCAGCCAGTCTGAGGTTATGTTTCTGAGCTTGGAC
 AAAAAGCCAGAGACAAGAGAAATGAGGAAGCTTGAACATGCCAGTCTTCTTGTGAA
 GAAAGTTGGTTCCCAAAGTATATAGTTCATCCCAGGACTTAAGGCCCTATAAGGTAAT
 ATAGATCTTCTCAGAAGCTCCAGGGCATTCTGCAGGAGCAGGCCAGTGGAGAGCAGC
 TGTTCTCCAAATTTTCTGGGATGAATATGAACAGTACAAAAAGAATAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_007199 unedited
 AATGTCAAATTTGTATACGACTCACTATAGGCGGCCGCGACTTCGGCACCAGAGGCCTG
 TCGCAGGCGTGCAGGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCCAT
 GGCGGGAACTGTGGGGCCCGCGCGCTGTGGCGCACACGCTGCTGTTTCGACCTGCC
 GCCCGCTGCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGGCGCGCTGGGCTG
 GCGCGCCTGGCAGAGAGACTTTCAAGCAGCTGGCTGGATGTTTCGTCATATTGAAAAGTA
 TGTAGACCAAGGTAAGTGGAAACAAGAGAATTACTTTGGTCTGGGCACAGAAAAACAA
 GACCATCGGTGACCTTTTACAGGTCTCCAGGAGATGGGACATCGTCGAGCTATTCATTT
 AATTACAAACTATGGAGCAGTGTGAGTCTTCAGAGAAGAGTTATCAGGAAGGTGGATT
 TCCAAATATATTATCAAGGAAACAGCCAATGTCACCGTGGATAATGTTCTTATTCCTGA
 ACATAATGAAAAAGGAGTACTGCTTAAATCTTCCATCAGCTTTCAAAATATCATAGAAGG
 AACTAGAAATTTCCACAAAGACTTCTAATTGGAGAAGGAGAGATTTTTGAGGTATACAG
 AGTGGAGATTCAAAACCTAACATATGCTGTCAAATTTTAAACAGGAGAAAAAATGCA
 GTGTAAGAAGCATTGGAAGAGGTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCATCA
 CCCAAACATACTAGAGTTGGCTGCATATTTACAGAGACTGAGAAAGTTCTGTCTGATT
 ATCCATACATGAGAAATGGNACACTTTTTGACAGATTTGCAGTGTGTAGTGACACGGCCC
 CACTCCTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007199 unedited GGGGGTTGGGGGCCAAACACGAACTTCTCCNNNNGNNTTACNTTGNACGCGGNCC GCTTTTANGATCGNGTTTTTTTTTTTTTTTTTTTTTTTCCAAAGGTATCTATTAACA TTTACAAATTAGACATTTCTACAACCCGTGCAAGCAAGCTAAACCAAACGATGGAATCC AACTGAATGTTCTTGGCAGATGGAGGCTCTGAGGACTCACACTGAGGATGATGGAGAGGA CATTACAATCCAGTCCCTTTTTGGTAGGTTTTGATTGTTTTGTTGGCTGAAGTCAAAC CCATGATCTTAAGGAATTTGAATGGCTAATTGAGCGTGGATTGGTCATGAGACAAT TATCCTGATAAAACAATTTTTAAGGCACTCTGTTTGAGGGTTTGGGAAAAAAGAAATGG AATTATCCAAATTGTTTATCTGCATCACCCAAACTCACTATTGATCATTCTTTGGCATT GCTTATGGAGCCAATGTCTTCCCAAGGCATACCTATGCTCAGGTGCCTATGCAATACTT GCTTTTTCTTTATCTTCTGGTAGAATTTATTCTTTTTGTACTGTTTCATATTCATCCCA GGAAAAATTTGGAGGAACAGCTGCTCTCCACTGGCCTGCTCTGCAAGAATGCCCTGAAGC TTCTGAAGAAGGATCTATATTTACCTTATAGGGCCTTAAGTCCTGGGATGGAACATATA CTTTGGGAACCACTTTTTTACAAAAAGAACTGGGCATGTTGCAAGCTTCTAATTACT CTTGCTCTTTGGCTTTTTGGCCAAGCTCAAAAACATAACCTCAAACCTGGCTGAATTTAA AAAAGAGTTTTTTGGAGCATTTTTGTCTTATCCTAAGGCCTCTATCAAAAGGTAAAAAAA TTGTTATTCTTGCCTTTTCATCATTTTTCCCATGAAATACCTGGGAACCATTTCCCAGGAAA AAG
Restriction Sites:	NotI-NotI
ACCN:	NM_007199
Insert Size:	2500 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_007199.1</u> , <u>NP_009130.1</u>
RefSeq Size:	2288 bp
RefSeq ORF:	1791 bp
Locus ID:	11213
UniProt ID:	<u>Q9Y616</u>
Cytogenetics:	12q14.3
Domains:	DEATH, pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Apoptosis, Neurotrophin signaling pathway

Gene Summary: This gene encodes a member of the interleukin-1 receptor-associated kinase protein family. Members of this family are essential components of the Toll/IL-R immune signal transduction pathways. This protein is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. Mutations in this gene are associated with a susceptibility to asthma. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.