

Product datasheet for **SC326041**

IRAKM (IRAK3) (NM_001142523) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAKM (IRAK3) (NM_001142523) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAKM
Synonyms:	ASRT5; IRAKM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001142523 edited
 GCCTGTGCGAGGCGTGCAGGGACCTGGACTCCGCTCGTCCCCGGGGCTCGGGCAGCCGA
 GCCATGGCGGGAACTGTGGGGCCCGGGCGCGCTGTGCGGCACACGCTGCTGTTTCGAC
 CTGCCGCCGCGCTGCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGGCGCGCTG
 GGCTGGCGCGGCTGGGAGCAGTGTGAGTCTTACAGAGAAGAGTTATCAGGAAGTGGA
 TTTCCAAATATATTATCAAGGAAACAGCCAATGTCACCGTGGATAATGTTCTTATTCT
 GAACATAATGAAAAGGAGTACTGCTTAAATCTCCATCAGCTTCAAATATCATAGAA
 GGAAC TAGAAATTTCCACAAAGACTTCTAATTGGAGAAGGAGATTTTTGAGGTATAC
 AGAGTGGAGATTCAAACCTAACATATGCTGTCAAATATTTAAACAGGAGAAAAAATG
 CAGTGTAGAAGCATTGGAAGAGTTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCAT
 CACCCAAACATACTAGAGTTGGCTGCATATTTACAGAGACTGAGAAGTTCTGTCTGATT
 TATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAGTGTGTAGGTGACACGGCC
 CCACTCCCTTGGCACATTGCAATCGGTATTAATAGGAATATCCAAAGCCATTCCTACTAC
 CTGCACAACGTTCAACCATGCTCGGTCATCTGTGGCAGTATATCAAGTCAAACATCCTT
 TTGGATGATCAGTTTCAACCCAACTAACTGATTTTGCCATGGCACACTCCGGTCCCAC
 CTAGAACATCAGAGTTGTACCATAAATATGACCAGCAGCAGCAGTAAACATCTGTGGTAC
 ATGCCAGAAGAGTACATCAGACAGGGGAACTTTCCATTAACAGATGTCTACAGCTTT
 GGAATTGTAATAATGGAAGTTCTAACAGGATGTAGAGTAGTGTAGATGATCCAAAACAT
 ATCCAGCTGCGGGATCTCCTTAGAGAATTGATGGAGAAGAGAGGCCTGGATTCATGTCTC
 TCATTTCTAGATAAGAAAGTGCCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTTCTGT
 TTGGCAGCCGGTGTGCTGCAACGCGGGCAAAGTTAAGACCATCAATGGATGAAGTTTTA
 AATACTCTTGAAGTACTCAAGCCAGCTTGTATTTTGTGAAGATCCTCCACATCACTA
 AAGTCCTTCAGGTGTCCTTCTCCTTATTCCTGGAGAATGTACCAAGTATTCCAGTGGAA
 GATGATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGA
 ATGACTCAGAAAACCTTTTTGAATGCAGCCAGTCTGAGTTATGTTTTCTGAGCTTGGAC
 AAAAAGCCAGAGAGCAAGAGAAATGAGGAAGCTTGAACATGCCAGTCTTCTTGTGAA
 GAAAGTTGGTTCCCAAAGTATATAGTTCCATCCCAGGACTTAAGGCCCTATAAGGTAAAT
 ATAGATCCTTCTCAGAAGCTCCAGGGCATTCTTGCAGGAGCAGGCCAGTGGAGAGCAGC
 TGTTCTCCAAATTTCTGGGATGAATATGAACAGTACAAAAAGAATAA

Restriction Sites: Please inquire

ACCN: NM_001142523

Insert Size: 1700 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).

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:

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_001142523.1](#), [NP_001135995.1](#)

RefSeq Size: 8168 bp

RefSeq ORF: 1608 bp

Locus ID: 11213

UniProt ID: [Q9Y616](#)

Cytogenetics: 12q14.3

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 (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to 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.