OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC323662

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:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC323662 sequence for NM_007199 edited (data generated by NextGen Sequencing)

ATGGCGGGGAACTGTGGGGCCCGCGGCGCGCTGTCGGCGCACACGCTGCTGTTCGACCTG
CCGCCCGCGCTGCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGGCGCGCTGGGC
TGGCGCGGCCTGGCAGAGAGACTTTCAAGCAGCTGGCTGGATGTTCGTCATATTGAAAAG
TATGTAGACCAAGGTAAAAGTGGAACAAGAGAATTACTTTGGTCCTGGGCACAGAAAAAC
AAGACCATCGGTGACCTTTTACAGGTCCTCCAGGAGATGGGACATCGTCGAGCTATTCAT
TTAATTACAAACTATGGAGCAGTGTTGAGTCCTTCAGAGAAGAGTTATCAGGAAGGTGGA
TTTCCAAATATATTATTCAAGGAAACAGCCAATGTCACCGTGGATAATGTTCTTATTCCT
GAACATAATGAAAAAGGAGTACTGCTTAAATCTTCCATCAGCTTTCAAAATATCATAGAA
GGAACTAGAAATTTCCACAAAGACTTCCTAATTGGAGAAGGAGAGATTTTTGAGGTATAC
AGAGTGGAGATTCAAAACCTAACATATGCTGTCATGTTATTTAAACAGGAGAAAAAAATG
CAGTGTAAGAAGCATTGGAAGAGGTTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCAT
CACCCAAACATACTAGAGTTGGCTGCATATTTTACAGAGACTGAGAAGTTCTGTCTGATT
TATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAGTGTGTAGGTGACACGGCC
CCACTCCCTTGGCACATTCGAATCGGTATATTAATAGGAATATCCAAAGCCATTCACTAC
CTGCACAACGTTCAACCATGCTCGGTCATCTGTGGCAGTATATCAAGTGCAAACATCCTT
TTGGATGATCAGTTTCAACCCAAACTAACTGATTTTGCCATGGCACACTTCCGGTCCCAC
CTAGAACATCAGAGTTGTACCATAAATATGACCAGCAGCAGCAGTAAACATCTGTGGTAC
ATGCCAGAAGAGTACATCAGACAGGGGAAACTTTCCATTAAAACAGATGTCTACAGCTTT
GGAATTGTAATAATGGAAGTTCTAACAGGATGTAGAGTAGTGTTAGATGATCCAAAACAT
ATCCAGCTGCGGGATCTCCTTAGAGAATTGATGGAGAAGAGAGGCCTGGATTCATGTCTC
TCATTTCTAGATAAGAAAGTGCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTTCTGT
TTGGCAGGCCGGTGTGCTGCAACGCGGGCAAAGTTAAGACCATCAATGGATGAAGTTTTA
AATACTCTTGAAAGTACTCAAGCCAGCTTGTATTTTGCTGAAGATCCTCCCACATCACTA
AAGTCCTTCAGGTGTCCTTCTCCTCTATTCCTGGAGAATGTACCAAGTATTCCAGTGGAA
GATGATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGA
ATGACTCAGAAAACTCCTTTTGAATGCAGCCAGTCTGAGGTTATGTTTCTGAGCTTGGAC
AAAAAGCCAGAGAGCAAGAGAAATGAGGAAGCTTGCAACATGCCCAGTTCTTCTTGTGAA
GAAAGTTGGTTCCCAAAGTATATAGTTCCATCCCAGGACTTAAGGCCCTATAAGGTAAAT
ATAGATCCTTCTTCAGAAGCTCCAGGGCATTCTTGCAGGAGCAGGCCAGTGGAGAGCAGC
TGTTCCTCCAAATTTTCCTGGGATGAATATGAACAGTACAAAAAAGAATAA

Clone variation with respect to NM_007199.2
439 a=>g;575 a=>t;576 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_007199 unedited
ACCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA
ACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGGGCCTGTCGCAGGC
GTGCAGGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCCATGGCGGGGAACTGTGGGGC
CCGCGGCGCGCTGTCGGCGCACACGCTGCTGTTCGACCTGCCGCCCGCGCTGCTCGGAGAGCTCTGCGCT
GTTCTGGACAGCTGCGACGGGCGCGCTGGGCTGGGCGCGGCCTGGCAGAGAGAACTTTTCAAGCAGGCTG
TGGCGGGGATGGTTCGTCCATATTGAAAAAGTATGGTAAGACACCAAGGGTTAAAGTGTGGACAAGAGAA
AATAACCTTTGGTCCCTGGGGCCCAGAAAAAACAAGAACCATCGTTGAACCCTTTAACAGGGTCCCTCCC
AGAAGAATGGACACATCGCCAAACTATTTTCTTTTATTTTCCAAACCAATGGGACCCTGGGTTGAATTCC
TTTCAAAAAAAAATTTTTACGGGAGGGGGGGATTTCCCAAATATTTTTTTCAGGGGAACCCCCCAAGGGT
CCCCGGGGGAAAAGTGTTTTATTTTCCGGCCCATAGGGAAGGGGGTCTGGGGTTTAACTTTTCCCCTCCC
CTTTTTAAAAATTCTAAAAAGGGACCTAAAATTTTTCCACAAAAAAATCTCCAATTGGGGAAAAGGAAGA
AATTTTTTTGGGGGTACCAAAGAGGGGAATATACAAACCCACCCCACATCTGGTCCCGGTGCGGTTTAAC
ACACGGGAAGAAAATAGCATGTCGTTGTGAAGACACCTGTGGGAAGAGATGTGTTTCTCGGCATCGCATG
TATTTTACGGATGTGCTGTACTCCCGCAACATCACTAGTGGTGTGCGTATATTATTCGACAGCAACGCA

Kinase Domain Sequence:	>SC323662 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation CCATGMGCAATGGGCGKAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGGGCCTGTCGCAGGCGTGCAGG GACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCCATGGCGGGGAACTGTGGGGCCCGCGGC GCGCTGTCGGCGCACACGCTGCTGTTCGACCTGCCGCCCGCGCTG
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_007199.1, NP_009130.1
RefSeq Size:	2288 bp
RefSeq ORF:	1791 bp
Locus ID:	11213
UniProt ID:	Q9Y616
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.