

Product datasheet for **SC323497**

IRAK (IRAK1) (NM_001569) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK (IRAK1) (NM_001569) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAK
Synonyms:	IRAK; pelle
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001569, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGGGGGGCCGGGCCCGGGGAGCCCGAGCCCCGGCGCCAGCACTTCTTGTACGAGGTGCCGC
CCTGGGTATGTGCCCTTCTACAAAGTATGGACGCCCTGGAGCCCGCCACTGGTCCAGTTCGCCGC
CCTGATCGTGCAGACCAGACCCAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCTCCTG
TGGCCCTGGATCAACCGCAACGCCCGTGTGGCCGACCTCGTGCACATCCTCACGCACCTGCAGTGTCC
GTGCGCGGGACATCATCACAGCCTGGCACCCCTCCCGCCCCGCTTCGCTCCCAAGGACCCTGCCCGAG
GCCAGCAGCATCCCTGCACCCGCCGAGGCCGAGGCTGGAGCCCCGGAAGTTGCCATCCTCAGCCTCC
ACCTTCTCTCCCGAGCTTTTCCAGGCTCCAGACCCATTAGGGCTGAGCTCGGCTGGTCCCAAGCC
CTGCTTCCCTGTGGCTCCACCGCCATCTCCAGCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGT
GTCCCTCTGCAGGGAGCCGCCCTTTCGTTTTGCTGGCCCTCTGTGAGATTCCCGGGGCACCCAC
AACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGGGTGCGTGTACCGGGCGGTGATGAGGAACA
CGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTGGACTGCAGTGAAGCAGAGCTTCT
GACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTTTGCTGGCTACTGTGCTCAG
AACGGTCTACTGCCTGGTGTACGGCTTCTGCCAACGGCTCCCTGGAGGACCTCTCCACTGCCAGA
CCCAGGCTGCCACCTCTCTCCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCGGCAATTCA
GTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGCTCTTCTGGATGAG
AGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGTTTACGCGCTTTGCCGGTCCAGCCCGAGCC
AGAGCAGCATGGTGGCCCGACACAGACAGTGGGGGACCCTGGCTACCTGCCGAGGAGTACATCAA
GACGGGAAGGCTGGCTGTGGACACGGACACCTTACGCTTTGGGGTGGTAGTGTAGAGACCTTGGCTGGT
CAGAGGGCTGTGAAGACGACCGTGGCAGGACCAAGTATCTGAAAGACCTGGTGGAAAGAGGAGGAGG
AGGCTGGAGTGGCTTTGAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGGCTGC
TCCCATGCCATGCAGATCTACAAGAAGCACCTGGACCCAGGCCGGGCCCTGCCACCTGAGCTGGGC
CTGGGCTGGCCAGCTGGCCTGCTGCTGCCTGCACCGCCGGGCCAAAAGGAGGCCCTCTATGACCCAGG
TGTACGAGAGGCTAGAGAAGCTGCAGGCAGTGGTGGCGGGGTGCCCGGCATTCCGAGGCCGCCAGCTG
CATCCCCCTTCCCGCAGGAGAACTCTACGTGTCCAGCACTGGCAGAGCCACAGTGGGGCTGCTCCA
TGGCAGCCCTGGCAGGCCATCAGGAGCCAGTGGCCAGGCAGCAGAGCTGCAGAGAGGCCCAACC
AGCCCGTGGAGAGTGACGAGAGCCTAGGCGCCTCTCTGCTGCCCTGCGCTCTGGCACTGACTCCAAG
CTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCAGGGGGACACGGCAGGAGAATCGAGC
TGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAGCTCTGCATCATCGT
CGTCAGAGCCACCGCAGATTATCATCAACCCTGCCGACAGAAGATGGTCCAGAAGCTGGCCCTGTACGA
GGATGGGGCCCTGGACAGCCTGCAGCTGCTGCTGCCAGTCCCTCCAGGCTTGGGCTGGAACAGGAC
AGGCAGGGGCCGAAGAAAGTATGAATTCAGAGCTGA
    
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5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_001569 unedited
 CCCGCCGTCTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTG
 ACACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTGGCACGAGGGCCCGCGCGGC
 AGCCATGGCCGGGGGCCGGGCCGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTTGTACGAGGTG
 CCGCCCTGGGTATGTCCGCTTCTACAAAGTATGGGACGCCCTGGAGCCCGCCACTGGTGCCAATT
 TCCCCCCTGATCGTGCACAACAGCCAGCTGGCGGTGTGCAAACGCTTCGGGTAGCAAAGGGGGG
 GGGGGGGGTGA

Kinase Domain Sequence: >SC323497 kinase domain raw sequence. By performing [BLASTX](#) analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation
 GWWTGTGGCGGTSYGGAGACTAGATCGGGGAGGGTGGCTTTGGGTGCGTGTACCGGGCGGTGATGAGGA
 ACACGGTGTATGCTGTGATGAGGCTGAAGGAGAACGCTGACCTATGCTGTGATGAGGAACACGGTGTATG
 CTGTGATGAGGCTGAAGGAGAACGCTGACCTATGCTGTGATGAGGAACACGGTGTATGCTGTGATGAGGC
 TGAAGGAGAACGCTGACCTATGCTGTGATGAGGAACACGGTGTAT

Restriction Sites:	Please inquire
ACCN:	NM_001569
Insert Size:	3600 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:	<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_001569.3 , NP_001560.2
RefSeq Size:	3589 bp
RefSeq ORF:	2139 bp
Locus ID:	3654
UniProt ID:	P51617
Cytogenetics:	Xq28
Domains:	DEATH, pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longest isoform (1).