

## Product datasheet for **SC302380**

### IRAK (IRAK1) (NM\_001025243) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK (IRAK1) (NM_001025243) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAK
Synonyms:	IRAK; pelle
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001025243 edited  
 CCCAGGCCCGCGCCCGCGGGCCCTGAGAGGCCCGGCAGGTCCCGGCCGGCGGGC  
 AGCCATGGCCGGGGGCGGCCCGGGGAGCCCGCAGCCCCGGCGCCAGCACTTCTT  
 GTACGAGGTGCCGCCCTGGGTATGTGCCGCTTACAAAGTGATGGACGCCCTGGAGCC  
 CGCCGACTGGTGCCAGTTCGCCGCCCTGATCGTGCCGACCAGACCGAGCTGCGGCTGTG  
 CGAGCGCTCCGGGACGCGACGGCCAGCGTCTGTGGCCCTGGATCAACCGCAACGCCCG  
 TGTGGCCGACCTGTGCACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT  
 CACAGCCTGGCACCCCTCCCGCCCGCTTCGTCCCGAGGACCCTGCCCCGAGGCCAG  
 CAGCATCCCTGCACCCGCGAGGCCGAGGCCTGGAGCCCCGGAAGTTGCCATCCTCAGC  
 CTCACCTTCTCTCCAGCTTTTCCAGGCTCCAGACCCATTAGGGCCTGAGCTCGG  
 CCTGGTCCAAGCCCTGCTTCCCTGTGGCTCCACCGCCATCTCCAGCCCTTCTTCTAC  
 CAAGCCAGGCCAGAGAGCTCAGTGTCCCTCCTGCAGGGAGCCCGCCCTCTCCGTTTTG  
 CTGGCCCTCTGTGAGATTTCCCGGGCACCCACAACCTCTCGGAGGAGCTCAAGATCGG  
 GGAGGTGGCTTTGGGTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAA  
 GAGGCTGAAGGAGAACGCTGACCTGGAGTGGACTGCAGTGAAGCAGAGCTTCTGACCGA  
 GGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTTTGCTGGCTACTGTGC  
 TGAAGCGGCTTACTGCCTGGTGTACGGCTTCTGCCAACGGCTCCCTGGAGGACCG  
 TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCT  
 TCTGGGTACAGCCCGGGCAATTCAGTTTCTACATCAGGACAGCCCGAGCCTATCCATGG  
 AGACATCAAGAGTTCCAACGCTCTTCTGGATGAGAGGCTGACACCAAGCTGGGAGACTT  
 TGGCCTGGCCCGGTTAGCCGCTTTCGGGGTCCAGCCCCAGCCAGAGCAGCATGGTGGC  
 CCGGACACAGACAGTGGGGGACCCCTGGCCTACCTGCCGAGGAGTACATCAAGACGGG  
 AAGGCTGGCTGTGGACACGGACACCTTACGCTTTGGGGTGGTGTGTAGAGACTTGGC  
 TGGTCAGAGGGCTGTGAAGACGCACGGTGCAGGACCAAGTATCTGGTGTACGAGAGGCT  
 AGAGAAGCTGCAGGCAAGTGGTGGCGGGGTGCCGGGCATTTGGAGGCCCGCAGTGCAT  
 CCCCCCTCCCGCAGGAGAATCCTACGTGTCCAGCACTGGCAGAGCCACAGTGGGGC  
 TGCTCCATGGCAGCCCTGGCAGGCCATCAGGAGCCAGTCCCAGGCAGCAGAGCAGCT  
 GCAGAGAGGCCCAACCAGCCGTGGAGAGTGACGAGAGCCTAGGCGGCCCTCTGTCTGC  
 CCTGCGCTCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGAGGC  
 CGGCTGTCTCAGGGGACACGGCAGGAGAATCGAGCTGGGGAGTGGCCAGGATCCCG  
 GCCCACAGCCGTGGAAGGACTGGCCCTTGGCAGCTCTGCATCATCGTGTGAGAGCCACC  
 GCAGATTATCATCAACCTGCCCGACAGAAGATGGTCCAGAAGCTGGCCCTGTACGAGGA  
 TGGGGCCCTGGACAGCCTGCAGCTGCTGTGTCCAGCTCCCTCCCAGGCTTGGGCCTGGA  
 ACAGGACAGGCAGGGGCCGAAGAAAGTGTGAATTTAGAGCTGATGTGTTACCTGGG  
 CAGATCCCCCAAATCCGGAAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAG  
 TCCTCAGCACTCTGCCGCGAGTGGGGTGGGGGCCATGCCCGCGGGGAGAGAAGGAGG  
 TGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAACCTGCCTCCATG  
 CCAGCATCTGGGGCAAGGAAGGCTGGCATCATCCAGTGAAGGAGGCTGGCGCATGTTGGG  
 AGGCTGTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGCAGGGGTGGA  
 GTAGGGAGCTGGCTCCCTGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTCTGGCAGC  
 AGCTTTTGGCCATCTCTTTGGACAGTGGCCACCCTGCACAATGGGGCCGACGAGGCCTA  
 GGGCCCTCTACCTGCTTACAATTTGAAAAAGTGTGGCCGGTGCAGTGGCTCACGCCTG  
 TAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTGGAGCCAGTAGGTCAAGAC  
 CAGCCAGGGCAACATGATGAGACCCTGTCTTGCCAAAAAATTTTTAACTATTAGCCT  
 GGCGTGGTAGCGACGCCTGTGGTCCCAGCTGCTGGGAGGCTGAAGTAGGAGGATCATT  
 TATGCTTGGGAGGTCGAGGCTGCAGTGAATGATTGTATGACTGCACTCCAGCCTGGG  
 TGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCTGGGAAAAGTGAAGTATGGCTGTA  
 AGTCTCATGGTTCAGTCTAGCAAGAAGCGAG

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001025243

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by two amino acids.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001025243.1, NP_001020414.1</u>
<b>RefSeq Size:</b>	3352 bp
<b>RefSeq ORF:</b>	1902 bp
<b>Locus ID:</b>	3654
<b>UniProt ID:</b>	<u>P51617</u>
<b>Cytogenetics:</b>	Xq28
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>Protein Pathways:</b>	Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon, as compared to variant 1. The encoded isoform 3 thus lacks an internal segment, as compared to isoform 1.</p>