Product datasheet for SC324958

IRAK4 (NM_001145258) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK4 (NM_001145258) Human Untagged Clone
Tag:	Tag Free
Symbol:	IRAK4
Synonyms:	IMD67; IPD1; IRAK-4; NY-REN-64; REN64
Vector:	pCMV6 series
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145258, the custom clone sequence may differ by one or more nucleotides

ATGCCTTTCTGTGACAAAGACAGGACATTGATGACACCTGTGCAGAATCTTGAACAAAGC
TATATGCCACCTGACTCCTCAAGTCCAGAAAATAAAAGTTTAGAAGTTAGTGATACACGT
TTTCACAGTTTTTCATTTTATGAATTGAAGAATGTCACAAATAACTTTGATGAACGACCC
ATTTCTGTTGGTGGTAATAAAATGGGAGAGGGAGGATTTGGAGTTGTATATAAAGGCTAC
GTAAATAACACAACTGTGGCAGTGAAGAAGCTTGCAGCAATGGTTGACATTACTACTGAA
GAACTGAAACAGCAGTTTGATCAAGAAATAAAAGTAATGGCAAAGTGTCAACATGAAAAC
TTAGTAGAACTACTTGGTTTCTCAAGTGATGGAGATGACCTCTGCTTAGTATATGTTTAC
ATGCCTAATGGTTCATTGCTAGACAGACTCTCTTGCTTGGATGGTACTCCACCACTTTCT
TGGCACATGAGATGCAAGATTGCTCAGGGTGCAGCTAATGGCATCAATTTTCTACATGAA
AATCATCATATTCATAGAGATATTAAAAGTGCAAATATCTTACTGGATGAAGCTTTTACT
GCTAAAATATCTGACTTTGGCCTTGCACGGGCTTCTGAGAAGTTTGCCCAGACAGTCATG
ACTAGCAGAATTGTGGGAACAACAGCTTATATGGCACCAGAAGCTTTGCGTGGAGAAATA
ACACCCAAATCTGATATTTACAGCTTTGGTGTGGTTTTACTAGAAATAATAACTGGACTT
CCAGCTGTGGATGAACACCGTGAACCTCAGTTATTGCTAGATATTAAAGAAGAAATTGAA
GATGAAGAAAAGACAATTGAAGATTATATTGATAAAAAGATGAATGATGCTGATTCCACT
TCAGTTGAAGCTATGTACTCTGTTGCTAGTCAATGTCTGCATGAAAAGAAAAATAAGAGA
CCAGACATTAAGAAGGTTCAACAGCTGCTGCAAGAGATGACAGCTTCT

Restriction Sites:	Please inquire
ACCN:	NM_001145258
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.

View online »

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_001145258.1, NP_001138730.1
RefSeq Size:	3987 bp
RefSeq ORF:	1011 bp
Locus ID:	51135
UniProt ID:	Q9NWZ3
Cytogenetics:	12q12
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	This gene encodes a kinase that activates NF-kappaB in both the Toll-like receptor (TLR) and T-cell receptor (TCR) signaling pathways. The protein is essential for most innate immune responses. Mutations in this gene result in IRAK4 deficiency and recurrent invasive pneumococcal disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011] Transcript Variant: This variant (5) lacks three alternate exons and uses a downstream start codon, compared to variant 1. The resulting isoform (b), also known as the short form, has a shorter N-terminus, compared to isoform a. Variants 3-10 all encode the same isoform (b). 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.