

Product datasheet for SC300298

IKB beta (NFKBIB) (NM_001001716) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB beta (NFKBIB) (NM_001001716) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKB beta
Synonyms:	IKBB; TRIP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300298 representing NM_001001716. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAATGGTGGCAGACGGCCTGGGCTCCCTGGGTCCGGACGACGCGGCCCGGAGGACCTGGGTTGG
 GCGCGGAGTTGGGCCGGGGCTGTCGTGGGCTCCCTCGTCTTCGGCTACGTCACTGAGGATGGGGACA
 CGCTTCTCGGCCGCACTGAGTACATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTGGCA
 GCCATCTGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGGCGCCGGGCTGTGTGTGGCGGAG
 CGTAGGGGCCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGCACACGCTGTGCCCGTGCCCTGCTT
 CAGCCCCGCCCGCGCCCCAGGGAAGCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCC
 GACACCAACCATACCCCTGTGCGCTTGTACCCGATTCCGACTTGAGAGAAGGAAGAGGAGAGTGAG
 GAGGACTGGAAGCTGCAGCTGGAGGCTGAAAACACGAGGGCCACACCCACTCCACGTGGCCGTTATC
 CACAAAGATGTGGAGATGGTCCGGCTGCTCCGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCACG
 TGCGGCCGGAGCCCCCTTCATTTGGCAGTGGAGGCCAGGCAGCCGATGTGCTGGAGCTTCTCCTGAGG
 GCAGGCGCGAACCCTGCTGCCCGCATGTACGGTGGCCGCACCCCACTCGGCAGTGCCATGCTCCGGCCC
 AACCCATCCTCGCCCGCTCCTCCGTGCACACGGAGCCCTGAGCCCGAGGGCGAGGACGAGAAATCC
 GGCCCCTGACGAGCAGTAGCGACAGCGACGCGAGACGAGGGCGTGAGTCAGGAGGAGAGACAGGGC
 AGCCCACTGGGGGTCAGGA**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001001716
Insert Size:	921 bp


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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	<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_001001716.1
RefSeq Size:	2213 bp
RefSeq ORF:	921 bp
Locus ID:	4793
Cytogenetics:	19q13.2
Protein Families:	Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, B cell receptor signaling pathway, Chemokine signaling pathway, Cytosolic DNA-sensing pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway
MW:	32.8 kDa

Gene Summary:

The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jul 2011]