

Product datasheet for RC202182

IKB beta (NFKBIB) (NM_002503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB beta (NFKBIB) (NM_002503) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKB beta
Synonyms:	IKBB; TRIP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202182 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGGTCGCGTGCTTGGGAAAAGCTGCCAGCAGATGAATGGTGCACAGCGCCCTGGGCTCC
TGGGTCCGGACGCAGCGGCCCGGAGGACCTGGGTGGGCGGGAGTTGGGCCCGGGCTGTCTGGGC
TCCCTCGTCTTCGGCTACGTACTGAGGATGGGACACGGCACTGCCTGGCTGTGATTCATCAGCAT
GAACCTTCTCGGATTTCTTAGGCTTCTCGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAG
GCCAGACAGCCCTGCACCTGGCAGCCATCCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGG
CGCCGGGCTGTGTGTGGCGGAGCGTAGGGGCCACACGGCGCTGCACCTGGCTGCCGTGTGGGGGCACAC
GCCTGTGCCCGTGCCTGCTTACGCCCCGCCCGGGCGCCCAAGGAAGCCCCGACACCTACCTCGCTC
AGGGCCCTGACCGTACTCCCGACACCAACCATACCCCTGTGCGCTTGTACCCCGATTCCGACTTGGAGAA
GGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTGGAGGCTGAAAACACGAGGGCCACACCCCA
CTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGTGTCTCCGAGATGCTGGAGCTGACCTTG
ACAAACCGGAGCCACGTGCGGCCGAGCCCCCTCATTGGCAGTGGAGGCCAGGCAGCCGATGTGCT
GGAGCTTCTCTGAGGGCAGGCGCAACCCTGCTGCCCGCATGTACGGTGGCCGACCCCACTCGGCAGT
GCCATGCTCCGGCCCAACCCATCCTCGCCCGCTCCTCCGTGCACACGGAGCCCTGAGCCCGAGGGCG
AGGACGAGAAATCCGGCCCTGCAGCAGCAGTAGCGACAGCGGAGACGAGGCGATGAATACGA
CGACATTGTGGTTCACAGCAGCCGAGCCAAACCCGGCTGCCTCCACCCAGCCTCAAACCTTCTCT
GACGACCCCGCCCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC202182 protein sequence
Red=Cloning site Green=Tags(s)

MAGVACLGAADAEWCDSGLGSLGPDAAAPGGPGLGAELGPGLSWAPLVFGYVTEGDGTALHLAVIHQH
 EPFLDFLLGFSAGTEYMDLQNDLGQTALHLAAIILGETSTVEKLYAAGAGLCVAERRGHTALHLACRVGAH
 ACARALLQPRRRPREAPDTYLAQGPDRTPDTNHTPVLYPDSLEKEEEEESEEDWKLQLEAENYEGHTP
 LHVAVIHKDVEMVRLLRDAGADLDKPEPTCGRSPLHLAVEAQAADVLELLL RAGANPAARMYGGRTPLGS
 AMLRPNPILARLLRAHGAPPEGEDEKSGPCSSSSSDSDSGDEGDEYDDIVVHSSRSQTRLPPTPASKPLP
 DDPRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6309_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002503

ORF Size: 1068 bp

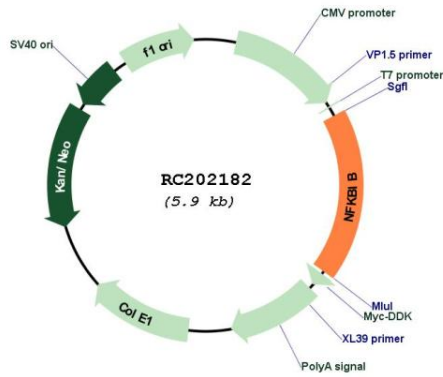
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

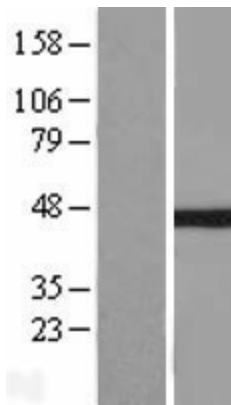
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002503.5
RefSeq Size:	1243 bp
RefSeq ORF:	1071 bp
Locus ID:	4793
UniProt ID:	Q15653
Cytogenetics:	19q13.2
Domains:	ANK
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:	37.8 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]

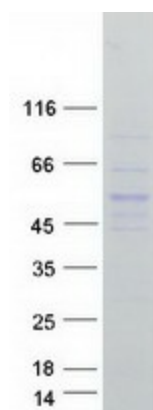
Product images:



Circular map for RC202182



Western blot validation of overexpression lysate (Cat# [LY419285]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202182 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NFKBIB protein (Cat# [TP302182]). The protein was produced from HEK293T cells transfected with NFKBIB cDNA clone (Cat# RC202182) using MegaTran 2.0 (Cat# [TT210002]).