

Product datasheet for **RG214683**

IKB epsilon (NFKBIE) (NM_004556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB epsilon (NFKBIE) (NM_004556) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFKBIE
Synonyms:	IKBE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214683 representing NM_004556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAGGCGCGGAAGGGGCCGACGAGGGCGGAGGAGGCCAGTACGACTCTGGCATTGAGTCTCTGC
GCTCTCTGCGCTCCCTACCCGAGTCCACCTCGGCTCCAGCCTCCGGGCCCTCGGACGGCAGCCCCAGCC
CTGCACCCATCTCCGGGACCCGTCAAGGAACACAGGAGAAGGAAGACGCGGATGGGGAGCGGGCTGAT
TCCACCTATGGCTCCTCCTCGCTCACCTACACCCTGTCTTGTGGGGGGCCCGAGGCTGAGGACCCGG
CCCCACGCTGCCACTCCCCACGTGGGGCGCTGAGCCCTCAGCAGCTGGAAGCACTCACTTACATCTC
CGAGGACGGAGACACGCTGGTCCACCTGGCAGTGATTGATGAGGCCCCAGCGGTGCTGCTGTTGCCTG
GCTTTGCTGCCCCAGGAGTCTGGACATTCAAATAACCTTTACCAGACAGCACTCCATCTGGCTGTAC
ATCTGGACCAACCGGGCGCAGTTCGGGCACTGGTGTGAAGGGGGCCAGCCGGGCACTACAGGACCGGCA
TGGTGACACAGCCCTTCATGTGGCTGCCAGCGCCAGCACTTGGCCTGTGCCCGCTGCCTGCTGGAAGGG
CGGCCAGAGCCAGGACAGGAACATCTCACTCTCTGGACCTCCAGCTGCAAACTGGCAAGGTCTGGCTT
GTCTCCACATTGCCACCCTTCAGAAGAACAACCACTCATGGAATTGCTGCTCGGAATGGAGCTGACAT
TGATGTGACAGGAGGCACCAAGTGGTAAGACAGCGCTGCACCTGGCTGTGGAACCCAAAGAGCGGGCCCTG
GTACAGTTCCTGCTCCAGGCTGGTGGCCAGGTAGATGCCCGCATGCTGAACGGGTGCACACCCCTGCACC
TGGCAGCTGGCCGGGTCTCATGGGCATCTCATCCACTCTGTGCAAGGCGGGTGTGACTCCCTGCTGCG
GAATGTGAGGATGAGACGCCCCAGGACCTGACTGAGGAATCCCTTGTCTTTTGCCTTTGATGACCTG
AAGATCTCAGGAAACTGCTGCTGTGTACCGAC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214683 representing NM_004556
 Red=Cloning site Green=Tags(s)

MSEARKGPDEAEESQYDSGIESLRSLRSLPESTSAPASGPSDGGSPQPCTHPPGPVKEPQEKEDADGERAD
 STYGSSSLTYTLLSLLGGPEAEDPAPRLPLPHV GAL SPQQLEAL TYISEDGDTLVHLAVIHEAPAVLLCCL
 ALLPQEVLDIQNNLYQTALHLAVHLDQPGAVRALV LK GASRALQDRHGDTALHVACQRQHLACARCLLEG
 RPEPGRGTSHSLDLQLQNWQGLACLHIATLQKNQPLMELLLRNGADIDVQEGTSGKTALHLAVETQERGL
 VQFLLQAGA QVDARMLNGCTPLHLAAGRGLMGI SSTLCKAGADSLLRNVEDETPQDLTEESLVLLPFDDL
 KISGKLLLCTD

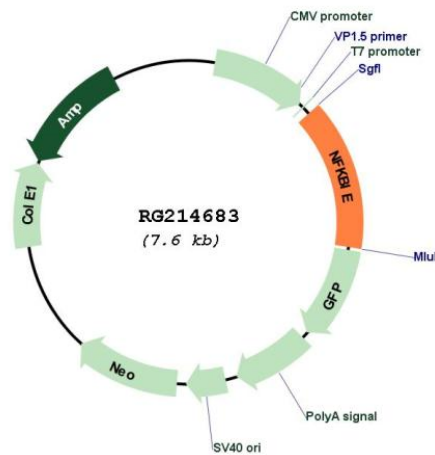
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004556

ORF Size:	1500 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.
RefSeq:	NM_004556.3
RefSeq Size:	2581 bp
RefSeq ORF:	1086 bp
Locus ID:	4794
UniProt ID:	O00221
Cytogenetics:	6p21.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, B cell receptor signaling pathway, Neurotrophin signaling pathway, T cell receptor signaling pathway
Gene Summary:	The protein encoded by this gene binds to components of NF-kappa-B, trapping the complex in the cytoplasm and preventing it from activating genes in the nucleus. Phosphorylation of the encoded protein targets it for destruction by the ubiquitin pathway, which activates NF-kappa-B by making it available to translocate to the nucleus. [provided by RefSeq, Sep 2011]