

Product datasheet for **MG226548**

Nfkbia (NM_010907) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfkbia (NM_010907) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfkbia
Synonyms:	A1462015; Nfkb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226548 representing NM_010907 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGCCAGCTGGGCACGGCCAGGACTGGGCCATGGAGGGCCCGGGATGGCCTCAAGAAGGAGC
GCTTGGTGGACGATCGCCACGACAGCGCCTGGACTCCATGAAGGACGAGGAGTACGAGCAAATGGTGAA
GGAGCTGCGGGAGATCCGCCTGCAGCCGAGGAGGCGCCGCTGGCCGCGAGCCCTGGAAGCAGCAGCTC
ACGGAGGACGGAGACTCGTTCCTGCACTTGGCAATCATCCACGAAGAGAAGCCGCTGACCATGGAAGTCA
TTGGTCAGGTGAAGGGAGACCTGGCCTTCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTT
GGCTGTGATACCAACCAGCCAGGAATTGCTGAGGCATCTCTGAAAGCTGGCTGTGATCCTGAGCTCCGA
GACTTTCGAGGAAATACCCCTCTACATCTTGCCTGTGAGCAGGGCTGCCTGGCCAGTGTAGCAGTCTTGA
CGCAGACTGCACACCCAGCATCTCCACTCCGTCTGCAGGCCACCACTACAATGGCCACACGTGTCT
GCACCTAGCCTCTATCCACGGCTACCTGGCCATCGTGGAGCACTTGGTGACTTTGGGTGCTGATGTCAAC
GCTCAGGAGCCCTGCAATGGCCGGACAGCCCTCCACTTGCCTGGACCTGCAGAATCCTGACCTGGTTT
CGCTCTTGTGAAATGTGGGGCTGATGTCAACAGGGTAACCTACCAAGGCTACTCCCCCTACCAGCTTAC
CTGGGGCCGCCAAGTACCCGGATACAGCAGCAGCTGGCCAGCTGACCCCTGGAAAATCTCCAGATGCTA
CCCAGAGCGAGGATGAGGAGAGCTATGACACGGAGTCAGAATTCACAGAGGATGAGCTGCCCTATGATG
ACTGTGTGTTTGGAGGCCAGCGTCTGACATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226548 representing NM_010907
 Red=Cloning site Green=Tags(s)

MFQPAGHGQDWAMEGPRDGLKKERLVDDRHDSDLMSMKDEEYEQMVKELREIRLQPQEAPLAAEPWKQQL
 TEDGDSFLHLAIHHEEKPLTMEVIGQVKGDALFNFNQNNLQQTPLHLAVITNQPGIAEALLKAGCDPELR
 DFRGNTPLHLACEQGCLASVAVLTQTCTPQHLHSVLQATNYNGHTCLHLASIHGYLAIVEHLVTLGADV
 AQEPCNGRTALHLAVDLQNPDLVSLLLKCGADVNRVTYQGYSPYQLTWGRPSTRIQQQLTLENLQML
 PESEDEESYDTESEFTEDELPHYDDCVFVGQRLTL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010907

ORF Size: 942 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:

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_010907.2](#), [NP_035037.2](#)

RefSeq Size: 1592 bp

RefSeq ORF: 945 bp

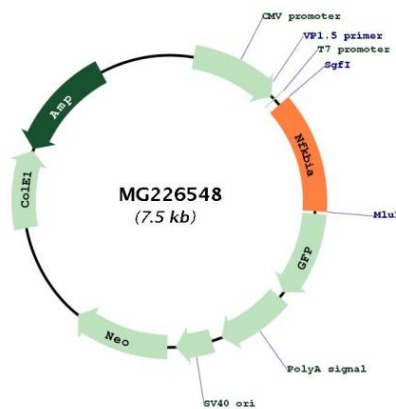
Locus ID: 18035

UniProt ID: [Q9Z1E3](#)

Cytogenetics: 12 C1

Gene Summary: Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric REL α to translocate to the nucleus and activate transcription.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226548