

## Product datasheet for MR226548

### Nfkbia (NM\_010907) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Nfkbia (NM\_010907) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Nfkbia  
 Synonyms: A1462015; Nfkb1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR226548 representing NM\_010907  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTTTCAGCCAGCTGGGCACGGCCAGGACTGGGCCATGGAGGGCCGCGGGATGGCCTCAAGAAGGAGC  
 GCTTGGTGGACGATCGCCACGACAGCGGCTGGACTCCATGAAGGACGAGGAGTACGAGCAAATGGTGAA  
 GGAGCTGCGGGAGATCCGCCTGCAGCCGAGGAGGCGCCGCTGGCCGCGAGCCCTGGAAGCAGCAGCTC  
 ACGGAGGACGGAGACTCGTTCCTGCACTTGGCAATCATCCACGAAGAGAAGCCGCTGACCATGGAAGTCA  
 TTGGTCAGGTGAAGGGAGACCTGGCCTTCTCAACTTCCAGAACAACCTGCAGCAGACTCCACTCCACTT  
 GGCTGTGATACCAACCAGCCAGGAATTGCTGAGGCATTCTGAAAGCTGGCTGTGATCCTGAGCTCCGA  
 GACTTTCGAGGAAATACCCCTCTACATCTTGCCCTGTGAGCAGGGCTGCCTGGCCAGTGTAGCAGTCTTGA  
 CGCAGACCTGCACACCCAGCATCTCCACTCCGTCTGCAGGCCACCAACTACAATGGCCACACGTGTCT  
 GCACCTAGCCTCTATCCACGGCTACCTGGCCATCGTGGAGCACTTGGTGACTTTGGGTGCTGATGTCAAC  
 GCTCAGGAGCCCTGCAATGGCCGGACAGCCCTCCACCTTGCCTGGACCTGCAGAATCCTGACCTGGTTT  
 CGCTCTTGTTGAAATGTGGGGCTGATGTCAACAGGGTAACCTACCAAGGCTACTCCCCCTACCAGTTAC  
 CTGGGGCCGCCAAGTACCCGGATACAGCAGCAGCTGGCCAGCTGACCCCTGGAAAATCTCCAGATGCTA  
 CCCGAGAGCGAGGATGAGGAGAGCTATGACACGGAGTCAGAATTCACAGAGGATGAGCTGCCCTATGATG  
 ACTGTGTGTTTGGAGGCCAGCGTCTGACATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR226548 representing NM\_010907  
 Red=Cloning site Green=Tags(s)

```
MFQPAGHGQDWAMEGPRDGLKKERLVDDRHD SGLDSMKDEEYEQMVKELREIRLQPQEAPLAAEPWKQQL
TEDGDSFLHLAI IHEEKPLTMEVIGQVKGDLAFLNFQNNLQQTPLHLAVITNQPGIAEALLKAGCDPELR
DFRGNTPLHLACEQGCLASVAVLTQTCTPQHLHSVLQATNYNGHTCLHLASIHGYLAIVEHLVTLGADVN
AQEPCNGRTALHLAVDLQNPDLVSLLLKCGADVNRVTYQGYSPYQLTWGRPSTRIQQQLTLENLQML
PESEDEESYDTESEFTEDEL PYDDCVFGGQRLTL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9032\\_g09.zip](https://cdn.origene.com/chromatograms/mm9032_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

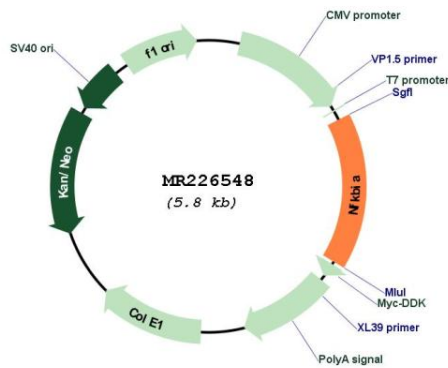
**UniProt ID:** [Q9Z1E3](#)

**Cytogenetics:** 12 C1

**MW:** 35.5 kDa

**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 RELA to translocate to the nucleus and activate transcription.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226548