

## Product datasheet for MR205604

### Nfkbie (NM\_008690) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Nfkbie (NM_008690) Mouse Tagged ORF Clone                         |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Nfkbie  |
| Synonyms:                 | I-kappa-B-epsilon; IκB-E; IκB-epsilon; IKBE; NF-kappa-BIE         |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR205604 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGATGCGCGGAAGGGGCCGACGAGGCGGATGATAGCCAGTGTGACTCTGGCATAGAGTCGCTGC  
GCTCTCTACGCTCCCTGCCTGAACCTACTGCGGCCAGGCTCCGGATCATCCCAAAGCGGCTGCCACA  
GCCTTGGAGACATGCTCCGGAGACCCACAAGGAACCAGAGAAAGAAGATGCGGATGGAGAGCGAGCGGAC  
TCCACTTATGCCTCCTCCTCTCACTGAATCCTTCCCCTTACTGGAGAGACCCGAAGCCAAGGATCCAA  
GCCCTCCCGCCCAGGATCGCCGCTGCCCCCGCGGGGTGCTGAGCCCTCAGCAACTCGAGGCGCTCAC  
ATACATCTCTGAGGATGGAGACAGCTGCTCCACCTGGCAGTGATTCACGAAGCCCGTCCGGTGCTATTC  
TGGTGGCTTGGCTTTCCTGCCCGAGGAAGTCTGGACATTCAGAACAACCTTTACCAGACAGCACTGCATC  
TGGCCGTTACCTGGATCAGCCAGATGTTGTCCGGCGCTGGTGTGAAGGGGGCCAGCCGAATTCGCA  
GGATCAGCATGGTGACACGGCCCTGCATGTGGCCTGTCCGGCCAGAATCTGGCCTGCGCGTGTGTCTG  
CTGGAGGAGCAGCCAGAGCCAGGACAGCTTCTCATCCCCTGGACCTCCAAGTGAAGAACTGGCAAG  
GTCTGGCCTGTCTCCACATTGCCACATTGCAGAGGAACCAACCGCTCATAGAAGTGTTCAGAAATGG  
AGCTGACATTGATGTACAGGAGGACAGAGTGGAAAGACTGCCCTGCACCTGGCTGTGAAACCCAGGAG  
CGCAGCCTGGTGCAGTTTCTGCTCCAGCCGGTGCCCGGTAGATGCCCGCATGCTTAACGGGTGCACAC  
CTTTACACCTGGCAGCTGGCCGGGCCTCAACAGCATCTCATCCACTCTGTGTGAGGCGCGTGCCGACTC  
TCTGCTGCTGAATGTAGAAGATGAGACACCCAGGACCTGGCTGAGGACCTCCTTCTTATTTGCCCTTC  
GATGACCTGAAAATCTCTGGCAAACCACTGCTATGTAAGTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205604 protein sequence  
Red=Cloning site Green=Tags(s)

```
MSDARKGPDEADDSQCDSGIESLRSLRSLPEPTAAPGSGSSQSGCPQWRHAPETHKEPEKEDADGERAD
STYASSSLTESFPLLERPEAKDPSPAPGSPPLPAGVLSPOQLEALTYISEDGDTLLHLAVIHEAPSVLF
CCLAFLPQEVLDIQNNLYQTALHLAVHLDQPDVVRALVLKASRILQDQHGDTALHVACRRQNLACACCL
LEEQPEPGRQLSHPLDLQLKNWQGLACLHIATLQRNQPLIELLLQNGADIDVQEGTSGKTALHLAVETQE
RSLVQFLLQAGARVDARMLNGCTPLHLAAGRGLNSISSTLCEAGADSLLLNVEDETPQDLAEDLLSYLPF
DDLKISGKPLLCTD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_008690

**ORF Size:** 1095 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\\_008690.2](#)

**RefSeq Size:** 2422 bp

**RefSeq ORF:** 1095 bp

**Locus ID:** 18037

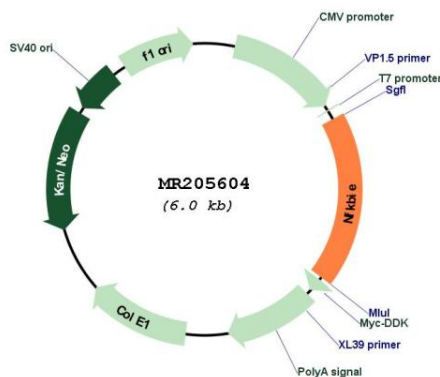
**UniProt ID:** [O54910](#)

**Cytogenetics:** 17 B3

**MW:** 39.2 kDa

**Gene Summary:** Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. Inhibits DNA-binding of NF-kappa-B p50-p65 and p50-c-Rel complexes (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205604