

## Product datasheet for **RC213365**

### **NFkB p100 / p52 (NFKB2) (NM\_001077494) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NFkB p100 / p52 (NFKB2) (NM_001077494) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFKB2
Synonyms:	CVID10; H2TF1; LYT-10; LYT10; NF-kB2; p49/p100; p52; p100
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC213365 representing NM\_001077494  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGTTGCTACAACCCAGGCTCGGATGGTATTATTGAATATGATGATTTCAAATTGAACTCCTCCA  
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 GCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGT  
 GAGAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACACGAGGGACCAGCCAAGATCGAGGTGG  
 ACCTGGTAACACACAGTGACCCACCTCGTGCTCATGCCACAGTCTGGTGGCAAGCAATGCTCGGAGCT  
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 AGGGCCTTACGGAGGCCGAGCAGCGGGAGCTGGAGCAAGAGGCCAAAGAAGTGAAGAAGGTGATGGATCT  
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 CCAGTCATCTCCAGCCATCCATGACAGCAAATCTCCGGGGCATCAAACCTGAAGATTTCTCGAATGG  
 ACAAGACAGCAGGCTCTGTGCGGGTGGAGATGAAGTTTATCTGCTTTGTGACAAGTGCAGAAAGATGA  
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 CCTGCGCAGTACGAGCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTA  
 GAGGAGGGAGTGAAGCTGCTGAGGGTCCAGAAACCCGAGACAAGCTGCCAGCAGCAGAGGTGAAGG  
 AAGACAGTGCCTACGGGAGCCAGTCACTGGAGCAGGAGGCAGAGAAGCTGGGCCACCCCTGAGCCACC  
 AGGAGGGCTCTGCCACGGGCACCCCAAGCTCAGGTGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213365 representing NM\_001077494  
 Red=Cloning site Green=Tags(s)

MESCYNPLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQGRFRFRYGCEGPSHGGLPGASS  
 EKGRKTYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCELGICAVSVGPKDMTAQFNNGVLH  
 VTKKNMGTMIQKLQRQLRSRQGLTEAEQRELEQEAKELKKVMDLSIVRLRFSAFLRASDGSFSLPLK  
 PVISQPIHDSKSPGASNLKISRMDKTAGSVRGGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPDT  
 VHKQYAIVFRTPPYHKMKIERPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRKALPTFSQPF  
 GGGSHMGGGSGGAAGGYGGAGGGSLGFFPSSLAYSYPYQSGAGPMGCYPGGGGAQMAATVPSRDSGEEA  
 AEPSAPSRTPQCEPQAPPEMLQRAREYNARLFGLAQRSARALLDYGVTAADARALLAQQRHLLTAQDENGDT  
 PLHLAIIHGQTSVIEQIVYVIHHAQDLGVVNLTNHLHQTPHLAVITGQTSVVSFLLRVGADPALLDRHG  
 DSAMHLALRAGAGAPPELLRALLQSGAPVQQLHMPDFEGLYPVHLAVRARSPECLDLLVDSGAEVEATE  
 RQGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAAGLYPTLTRLLKAGADIHAENEE  
 PLCPLSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTKVKTLLLNAAQNTMEPPLTPPSPAGPGLSL  
 GDTALQNLQLLDGPEAQGWAELAERLGLRSLVDTYRQTTSPSGSLRSYELAGDLAGLLEALSDMGL  
 EEGVRLLRGPETRDKLPSTAEVKEDSAYGSQSVEQAEKLGPPPEPPGGLCHGHPQPQVH

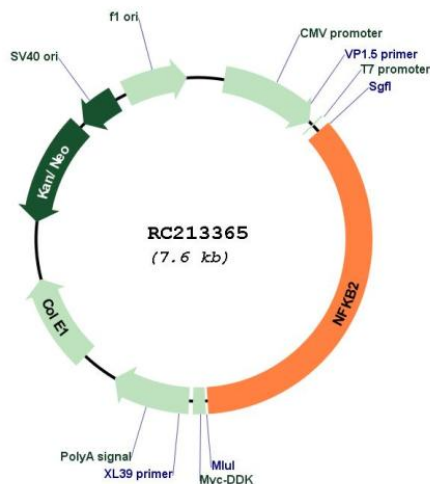
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001077494

**ORF Size:** 2700 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<a href="#">NM_001077494.3</a>
RefSeq Size:	3123 bp
RefSeq ORF:	2703 bp
Locus ID:	4791
UniProt ID:	<a href="#">Q00653</a>
Cytogenetics:	10q24.32
Protein Families:	Transcription Factors
Protein Pathways:	MAPK signaling pathway, Pathways in cancer
MW:	96.7 kDa
Gene Summary:	<p>This gene encodes a subunit of the transcription factor complex nuclear factor-kappa-B (NFkB). The NFkB complex is expressed in numerous cell types and functions as a central activator of genes involved in inflammation and immune function. The protein encoded by this gene can function as both a transcriptional activator or repressor depending on its dimerization partner. The p100 full-length protein is co-translationally processed into a p52 active form. Chromosomal rearrangements and translocations of this locus have been observed in B cell lymphomas, some of which may result in the formation of fusion proteins. There is a pseudogene for this gene on chromosome 18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2013]</p>