

Product datasheet for **RG201147**

NFkB p100 / p52 (NFKB2) (NM_001077493) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NFkB p100 / p52 (NFKB2) (NM_001077493) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | NFKB2 |
| Synonyms: | LYT-10; LYT10; p52 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG201147 representing NM_001077493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGTTGCTACAACCCAGGCTCGGATGGTATTATTGAATATGATGATTTCAAATTGAACTCCTCCA
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 GCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGT
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 CCAGTCATCTCCAGCCATCCATGACAGCAAATCTCCGGGGCATCAAACCTGAAGATTTCTCGAATGG
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 ACAGTGCCTACGGGAGCCAGTCACTGGAGCAGGAGGCAGAGAAGCTGGGCCACCCCTGAGCCACCAGG
 AGGGCTCTGCCACGGGACCCCAAGCCTCAGGTGCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >RG201147 representing NM_001077493
 Red=Cloning site Green=Tags(s)

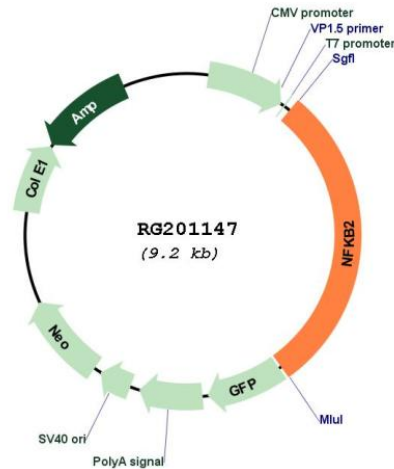
MESCYNPLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRFRRYGCCEGSPSHGGLPGASS
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 GGGSHMGGSGGAAGGYGGAGGGSLGFFPSSLAYSYPYQSGAGPMGCYPGGGGAQMAATVPSRDSGEEA
 AEPSAPSRTPQCEPQAPPEMLQRAREYNARLFGLAQRSARALLDYGVTADARALLAQQRHLLTAQDENGDT
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 RQGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPHLAAGLYPTLTRLLKAGADIHAENEE
 PLCPLSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTKVKTLLLNAAQNTMEPPLTPPSPAGPGLSL
 GDTALQNLQLLDGPEAQGWAELAERLGLRSLVDTYRQTTSPSGSLRSYELAGDLAGLLEALSDMGL
 EEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLCHGHPQPQVH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001077493

ORF Size: 2697 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_001077493.1](#), [NP_001070961.1](#)

RefSeq Size: 3061 bp

RefSeq ORF: 2699 bp

Locus ID: 4791

Cytogenetics: 10q24.32

Protein Families: Transcription Factors

Protein Pathways: MAPK signaling pathway, Pathways in cancer

Gene Summary: 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]