

## Product datasheet for **SC315630**

### NFkB p100 / p52 (NFKB2) (NM\_001077494) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NFkB p100 / p52 (NFKB2) (NM\_001077494) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** NFkB p100 / p52  
**Synonyms:** CVID10; H2TF1; LYT-10; LYT10; NF-kB2; p49/p100; p52; p100  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001077494 edited  
CTCCACCGGATCTCACCCGCCACACCCGGACAGGCGGCTGGAGGAGCGGGCGTCTAAAA  
TTCTGGGAAGCAGAACCTGGCCGAGCCACTAGACAGAGCCGGCCTAGCCCAGAGACAT  
GGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTCAAATTGAA  
CTCCTCCATTGTGGAACCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCTACCTGGT  
GATCGTGGAAACAGCCTAAGCAGAGAGGCTTTTCGATTTTCGATATGGCTGTGAAGGCCCTC  
CCATGGAGGACTGCCCGGTGCCTCCAGTGAGAAGGGCCGAAAGACCTATCCCAGTGTCAA  
GATCTGTAACACGAGGGACCAGCAAGATCGAGGTGGACCTGGTAACACACAGTGACCC  
ACCTCGTGCTCATGCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC  
CGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAACAACTGGGTGTCTGCATGT  
GACTAAGAAGAACATGATGGGGACTATGATACAAAACCTCAGAGGCAGCGGCTCCGCTC  
TAGGCCCCAGGGCCTTACGGAGCCGAGCAGCGGGAGCTGGAGCAAGAGGCCAAAGAACT  
GAAGAAGGTGATGGATCTGAGTATAGTGC GGCTGCGCTTCTCTGCCTTCCTTAGAGCCAG  
TGATGGCTCCTTCTCCCTGCCCTGAAGCCAGTCATCTCCAGCCCATCCATGACAGCAA  
ATCTCCGGGGGCATCAAACCTGAAGATTCTCGAATGGACAAGACAGCAGGCTCTGTGCG  
GGGTGGAGATGAAGTTTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGTTCC  
GTTCTATGAGGATGATGAGAATGGATGGCAGGCCTTTGGGGACTTCTCTCCACAGATGT  
GCATAAACAGTATGCCATTGTGTTCCGGACACCCCTATCACAAGATGAAGATTGAGCG  
GCCTGTAAACAGTGTCTGCAACTGAAACGCAAGCGAGGAGGGACGTGTCTGATTCCAA  
ACAGTTACCTATTACCTCTGGTGAAGACAAGGAAGGTGCAGCGGAAGCGGAGGAA  
GGCCTTGCCACCTTCTCCAGCCCTTCGGGGGTGGCTCCACATGGGTGGAGGCTCTGG  
GGGTGCAGCCGGGGGCTACGGAGGAGCTGGAGGAGGTGGCAGCCTCGGTTTCTTCCCTC  
CTCCCTGGCCTACAGCCCTACAGTCCGGCGCGGGCCCATGGGCTGCTACCCGGGAGG  
CGGGGGCGGGGCGCAGATGGCCGCCACGGTGCCAGCAGGGACTCCGGGGAGGAAGCCGC  
GGAGCCGAGCGCCCTCCAGGACCCCTCAGTGCAGCCGAGGCCCCGGAGATGCTGCA  
GCGAGCTCGAGAGTACAACGCGCCTGTTCCGGCTGGCGCAGCGCAGCGCCCGAGCCCT  
ACTCGACTACGGGTACCGCGGACGCGCGCGCTGCTGGCGGGACAGCGCCACCTGCT



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GACGGCGCAGGACGAGAACGGAGACACACCACTGCACCTAGCCATCATCCACGGGACAGAC
CAGTGTCAATTGAGCAGATAGTCTATGTCATCCACCACGCCAGGACCTCGGCGTTGTCAA
CCTCACCACCACTGCACCAGACGCCCTGCACCTGGCGGTGATCACGGGGCAGACGAG
TGTGGTGAGCTTTCTGCTGCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGA
CTCAGCCATGCATCTGGCGCTGCGGGCAGGCGCTGGTGCCTCTGAGCTGCTGCGTGCAC
GTTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGACTTTGAGGGACT
GTATCCAGTACACCTGGCGGTCCGAGCCCGAAGCCCTGAGTGCCTGGATCTGCTGGTGA
CAGTGGGGCTGAAGTGGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGCATCTAGC
CACAGAGATGGAGGAGCTGGGGTTGGTCACCCCTCTGGTCAACAAGCTCCGGGCCAACGT
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CCTGTGCCACTGCCTTACCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGA
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GGAGGGAGTGAGGCTGCTGAGGGGTCCAGAAACCCGAGACAAGCTGCCAGCACAGAGGT
GAAGGAAGACAGTGCCTACGGGAGCCAGTCACTGGAGCAGGAGGAGGAGAGAAGCTGGGCC
ACCCCTGAGCCACCAGGAGGGCTCTGCCACGGGCACCCCGCCTCAGGTGCACTGACC
TGTTGCCTGCCCCAGCCCCCTTCCCGGACCCCTGTACAGGGTCCCCCCTATTTCAA
TTTTATTTAACACCCACACCCACCCCTCAGTTGGGACAAATAAAGGATTTTCATGGGAA
GGGGAGGACCCCTCCTTCCCCCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA
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- Restriction Sites:** NotI-NotI
- ACCN:** NM\_001077494
- Insert Size:** 3000 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:** The ORF of this clone has been fully sequenced and found to contain 1 amino acid deletion compared with the protein encoded by NM\_001077494.1.
- 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001077494.1, NP_001070962.1</u>
<b>RefSeq Size:</b>	3128 bp
<b>RefSeq ORF:</b>	2703 bp
<b>Locus ID:</b>	4791
<b>UniProt ID:</b>	<u>Q00653</u>
<b>Cytogenetics:</b>	10q24.32
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway, Pathways in cancer
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 5 both encode the same isoform (a).</p>