OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC118626

NFkB p100 / p52 (NFKB2) (NM_002502) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFkB p100 / p52 (NFKB2) (NM_002502) 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)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC118626 sequence for NM_002502 edited (data generated by NextGen Sequencing)

ATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTG
AACTCCTCCATTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCTACCTG
GTGATCGTGGAACAGCCTAAGCAGAGAGGCTTTCGATTTCGATATGGCTGTGAAGGCCCC
TCCCATGGAGGACTGCCCGGTGCCTCCAGTGAGAAGGGCCGAAAGACCTATCCCACTGTC
AAGATCTGTAACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGTAACACACAGTGAC
CCACCTCGTGCTCATGCCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGC
GCCGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAACAACCTGGGTGTCCTGCAT
GTGACTAAGAAGAACATGATGGGGACTATGATACAAAAACTTCAGAGGCAGCGGCTCCGC
TCTAGGCCCCAGGGCCTTACGGAGGCCGAGCAGCGGGAGCTGGAGCAAGAGGCCAAAGAA
CTGAAGAAGGTGATGGATCTGAGTATAGTGCGGCTGCGCTTCTCTGCCTTCCTTAGAGCC
AGTGATGGCTCCTTCTCCCTGCCCCTGAAGCCAGTCATCTCCCAGCCCATCCATGACAGC
AAATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTG
CGGGGTGGAGATGAAGTTTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTT
CGGTTCTATGAGGATGATGAGAATGGATGGCAGGCCTTTGGGGACTTCTCTCCCACAGAT
GTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAAGATGAAGATTGAG
CGGCCTGTAACAGTGTTTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCC
AAACAGTTCACCTATTACCCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGG
AAGGCCTTGCCCACCTTCTCCCAGCCCTTCGGGGGTGGCTCCCACATGGGTGGAGGCTCT
GGGGGTGCAGCCGGGGGCTACGGAGGAGCTGGAGGAGGTGGCAGCCTCGGTTTCTTCCCC
TCCTCCCTGGCCTACAGCCCCTACCAGTCCGGCGCGGGCCCCATGGGCTGCTACCCGGGA
GGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGCCCAGCAGGGACTCCGGGGAGGAAGCC
GCGGAGCCGAGCGCCCCCTCCAGGACCCCCCAGTGCGAGCCGCAGGCCCCGGAGATGCTG
CAGCGAGCTCGAGAGTACAACGCGCGCCTGTTCGGCCTGGCGCAGCGCAGCGCCCGAGCC
CTACTCGACTACGGCGTCACCGCGGACGCGCGCGCGCTGCTGGCGGGACAGCGCCACCTG
CTGACGGCGCAGGACGAGAACGGAGACACACCACTGCACCTAGCCATCATCCACGGGCAG
ACCAGTGTCATTGAGCAGATAGTCTATGTCATCCACCACGCCCAGGACCTCGGCGTTGTC
AACCTCACCAACCACCTGCACCAGACGCCCCTGCACCTGGCGGTGATCACGGGGCAGACG
AGTGTGGTGAGCTTTCTGCTGCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGA
GACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGCTGGTGCTCCTGAGCTGCTGCGTGCA
CTGCTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGACTTTGAGGGA
CTGTATCCAGTACACCTGGCGGTCCGAGCCCGAAGCCCTGAGTGCCTGGATCTGCTGGTG
GACAGTGGGGCTGAAGTGGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGCATCTA
GCCACAGAGATGGAGGAGCTGGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAAC
GTGAACGCTCGCACCTTTGCGGGAAACACACCCCTGCACCTGGCAGCTGGACTGGGGTAC
CCGACCCTCACCCGCCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGAAAACGAGGAG
CCCCTGTGCCCACTGCCTTCACCCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCT
GAGAAGGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTTGCAGCACC
AAGGTGAAGACCTTGCTGCTAAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCCG
CCCAGCCCAGCAGGGCCGGGACTGTCACTTGGTGATACAGCTCTGCAGAACCTGGAGCAG
CTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCGTCTGGGGCTG
CGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGC
TACGAGCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTA
GAGGAGGGAGTGAGGCTGCTGAGGGGTCCAGAAACCCGAGACAAGCTGCCCAGCACAGAG
GTGAAGGAAGACAGTGCGTACGGGAGCCAGTCAGTGGAGCAGGAGGCAGAGAAGCTGGGC
CCACCCCCTGAGCCACCAGGAGGGCTCTGCCACGGGCACCCCCAGCCTCAGGTGCACTGA

Clone variation with respect to NM_002502.3
153 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002502 unedited
NGGTCANCATTTGTATACGACTCATATAGGGCGGCCGCGATTCGGCACGAGGCTCCACCG
GATCTCACCCGCCACACCCGGCCAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGA
AGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGCCTAGCCCAGAGACATGGAGAGTT
GCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAACTCCTCCA
TTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCTACCTGGTGATCGTGG
AACAGCCTAAGCAGAGAGGCTTTCGATTTCGATATGGCTGTGAAGGCCCCTCCCATGGAG
GACTGCCCGGTGCCTCCAGTGAGAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTA
ACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGTAACACACAGTGACCCACCTCGTG
CTCATGCCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGCCGTTTCTG
TGGGGCCCAAGGACATGACTGCCCAATTTAACAACCTGGGTGTCCTGCATGTGACTAAGA
AGAACATGATGGGGACTATGATACAAAAACTTCAGAGGCAGCGGCTCCGCTCTAGGCCCC
AGGGCCTTACGGAGGCCGAGCAGCGGGAGCTGGAGCAAGAGCCAAAGAACTGAAGAAGGT
GATGGATCTGAGTATAGTGCGGCTGCGCTTCTCTGCCTTCCTTAGAGCCAGNGATGGCTC
CTNTCTCCTGCCCCTGAAGCCAGTCATCTTCCAGCCCATCCATGACAGCAAATCTCCGGG
GGCATCAAACCTGNAAGATTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGGTGGAGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002502 unedited
GACCGCGGCCCGCTTCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTAAGGGGGGAAGGAGGGGTCCTCCCCTTCCCATGAAAATCCTTTAT
TTGTCCCAACTGAGGGGTGGGTGTGGGGTGTTAAATAAAATTTGAAATAGGGGGGGACCC
TGTACAGGGGGTCCGGGAAGGGGGCTGGGGGCAGGCAACAGGTCAGTGCACCTGAGGCTG
GGGGTGCCCGTGGCAAAACCCTCCTGGTGGCTCAGGGGGTGGGCCCAGCTTTTTTGCCTC
CTGCTCCACTGACTGGCTCCCGTACGCACTGTCTTCCTTCACCTTTGGGCTGGGCAGCTT
GTCTCGGGTTTTTGGACCCCTCAGCAGCCTCACTCCCTCCTTTAGGCCCATGTCAAACAG
GGCCTCCAGTAAACCTGCCAGGTCCCCGCCAGCCAGCTCGTAACTGCGCAGGAGGCTGCC
ACTGGGTGAGGTTGTCTGTCGGTACGTGTCTACCAGGCTGCGCAGCCCCAGACGCTCTGC
CAGCTCTGCCCAGCTGCCCTGGGCTTTTGGCCCGTCTAGCAGCTGCTCCAGGTTCTGCAG
AGCTGTATCACCAAGTGACAGTCCCGGCCCTGCTGGGCTGGGCGGGGTCAGGGGTGGCTT
CATGGGGTTCTGAGCAGCATCTAGCAGCAAGGGCTTCACCTTGGTGCTGCAAGTGAGGTC
AAGAGGCGTGTGGCCCCGGAAGCTGCTTCGGGTGGCCTTCTCAGGCCTTTAAAGTCCGAT
CGCTTTAAAGTACGGGGTGGAAGCAGGGGCCACAGAGTTTTTTCTTCTTCTTTGGTTGTA
CCCCCACTCCTCTAGGAAGCGGTTGAGGTTCTCCACCCCCTATACATCCACAGCATGTGT
GTCCCACACCACAGGTATTTACTTTACCATTTAACAACCN

Restriction Sites: NotI-NotI

ACCN: NM_002502

Insert Size: 2900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002502.2, NP_002493.2
RefSeq Size:	3001 bp
RefSeq ORF:	2802 bp
Locus ID:	4791
UniProt ID:	Q00653
Cytogenetics:	10q24.32
Domains:	RHD, DEATH, ANK, IPT
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] Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Variants 2, 3, and 4 encode the same isoform (b). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.