

Product datasheet for **RC235004**

NFkB p100 / p52 (NFKB2) (NM_001261403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFkB p100 / p52 (NFKB2) (NM_001261403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFkB p100 / p52
Synonyms:	CVID10; H2TF1; LYT-10; LYT10; NF-kB2; p49/p100; p52; p100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC235004 representing NM_001261403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAACTCCTCCA
 TTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCTACCTGGTGATCGTGGAAACAGCCTAA
 GCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGT
 GAGAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACACGAGGGACCAGCCAAGATCGAGGTGG
 ACCTGGTAACACACAGTGACCCACCTCGTGCTCATGCCACAGTCTGGTGGCAAGCAATGCTCGGAGCT
 GGGGATCTGCGCCGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAAACCTGGGTGTCTGCAT
 GTGACTAAGAAGAACATGATGGGACTATGATACAAAACCTTACAGAGGCAGCGGCTCCGCTTAGGCCCC
 AGGGCCTTACGGAGGCCGAGCAGCGGGAGCTGGAGCAAGAGGCCAAAGAAGTGAAGAAGGTGATGGATCT
 GAGTATAGTGCAGCTGCGCTTCTGCTTCCCTTAGAGCCAGTGTGGCTCCTTCTCCCTGCCCTGAAG
 CCAGTCACTCCAGCCATCCATGACAGCAAATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGG
 ACAAGACAGCAGGCTCTGTGCGGGTGGAGATGAAGTTTATCTGCTTTGTGACAAGTGCAGAAAGATGA
 CATTGAGGTTTCGGTCTATGAGGATGATGAGAATGGATGGCAGGCCTTTGGGGACTTCTCTCCACAGAT
 GTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCTTATCACAAGATGAAGATTGAGCGGCCTGTAA
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 GGGGTGGCTCCACATGGGTGGAGCTCTGGGGTGCAGCCGGGGCTACGGAGGAGCTGGAGGAGGTG
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 CTACCCGGGAGGCGGGGCGGGGCGCAGATGGCCGCCACGGTGCCAGCAGGGACTCCGGGGAGGAAGCC
 GCGGAGCCGAGCGCCCTCCAGGACCCCAAGTGCAGCCGCGAGGCCCGGAGATGCTGCAGCGAGCTC
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 CGCGGACGCGCGCGCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACA
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 GGGGCAGACGAGTGTGGTGAAGCTTCTGCTGCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGA
 GACTCAGCCATGCATCTGGCGCTGCGGGCAGCGCTGGTCTCCTGAGCTGCTGCGTGCAGTCTCAGA
 GTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGACTTTGAGGGACTGTATCCAGTACACCTGGC
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 CGGCAGGGGGGACGAACAGCCTTGCATCTAGCCACAGAGATGGAGGAGCTGGGGTTGGTACCCATCTGG
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 CCTGCGCAGTACGAGCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTA
 GAGGAGGGAGTGAAGCTGCTGAGGGTCCAGAAACCCGAGACAAGCTGCCAGCAGAGGTGAAGGAAG
 ACAGTGCCTACGGGAGCCAGTCAAGTGGAGCAGGAGGCAGAGAAGCTGGGCCACCCCTGAGCCACCAG
 AGGGCTCTGCCACGGGCACCCCAAGCCTCAGGTGCAC

ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235004 representing NM_001261403
 Red=Cloning site Green=Tags(s)

MESCYNPLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQGRFRFRYGCEGPSHGGLPGASS
 EKGRKTYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLH
 VTKKNMGMITMIQKLQRQLRSRPOGLTEAEQRELEQEAKELKKVMDLSIVRLRFSAFLRASDGSFSLPLK
 PVISQPIHDSKSPGASNLKISRMDKTAGSVRGGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPDT
 VHKQYAIVFRTPPYHKMKIERPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRKALPTFSQPF
 GGGSHMGGGSGGAAGGYGGAGGGGSLGFFPSSLAYSYPYQSGAGPMGCYPGGGGGAQMAATVPSRDSGEEA
 AEPSAPSRTPQCEPQAPPEMLQRAREYNARLFGLAQRSARALLDYGVTAADARALLAQQRHLLTAQDENGDT
 PLHLAIIHGQTSVIEQIVYVIHHAQDLGVVNLTNHLHQTPLHLAVITGQTSVVSFLLRVGADPALLDRHG
 DSAMHLALRAGAGAPPELLRALLQSGAPAVPQLLHMPDFEGLYPVHLAVRARSPECLDLLVDSGAEVEATE
 RQGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAAGLYPTLTRLLKAGADIHAENEE
 PLCPLSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTKVKTLLLNAAQNTMEPPLTPPSPAGPGLSL
 GDTALQNLQLLDGPEAQGWAELAERLGLRSLVDTYRQTTSPSGSLRSYELAGDLAGLLEALSDMGL
 EEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELKPPPEPPGGLCHGHPQPVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

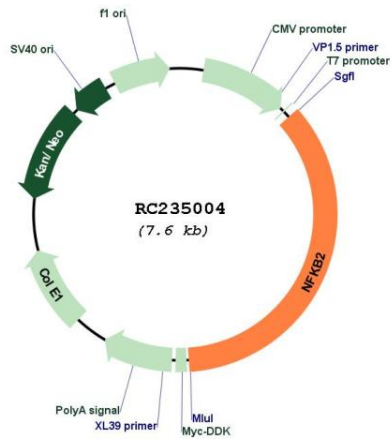
Cloning Scheme:



ACCN: NM_001261403

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:	<ol style="list-style-type: none">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_001261403.2 , NP_001248332.1
RefSeq Size:	3217 bp
RefSeq ORF:	2700 bp
Locus ID:	4791
UniProt ID:	Q00653
Cytogenetics:	10q24.32
Protein Families:	Transcription Factors
Protein Pathways:	MAPK signaling pathway, Pathways in cancer
MW:	97.1 kDa
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]

Product images:



Circular map for RC235004