

## Product datasheet for **RG213313**

### **NFkB p100 / p52 (NFKB2) (NM\_002502) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NFkB p100 / p52 (NFKB2) (NM_002502) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFkB p100 / p52
Synonyms:	CVID10; H2TF1; LYT-10; LYT10; NF-kB2; p49/p100; p52; p100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG213313 representing NM\_002502  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGAGTTGCTACAACCCAGGCTCGGATGGTATTATTGAATATGATGATTTCAAATTGAACTCCTCCA  
 TTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCTACCTGGTGATCGTGGAAACAGCCTAA  
 GCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCGGTGCCTCCAGT  
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 ACCTGGTAACACACAGTGACCCACCTCGTGCTCATGCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCT  
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 ACAAGACAGCAGGCTCTGTGCGGGTGGAGATGAAGTTTATCTGCTTTGTGACAAGTGCAGAAAGATGA  
 CATTGAGGTTTCGTTCTATGAGGATGATGAGAATGGATGGCAGGCCTTTGGGGACTTCTCTCCACAGAT  
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 GAGGGAGTGAAGCTGCTGAGGGTCCAGAAACCCGAGACAAGCTGCCAGCACAGAGGTGAAGGAAGACA  
 GTGCGTACGGGAGCCAGTCAAGTGGAGCAGGAGGCAGAGAAGCTGGGCCACCCCTGAGCCACCAGGAGG  
 GCTCTCGCACGGGACCCCGCCTCAGGTGACTGACCTGCTGCTGCCCGAGCCCTTCCCGGACCC  
 CCTGTACAGCGTCCACCTATTTCAAATCTTATTTAACACCCACACCCACCCCTCAGTTGGGACAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG213313 representing NM\_002502  
 Red=Cloning site Green=Tags(s)

MESCYNPLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQGRFRFRYGCEGPSHGGLPGASS  
 EKGRKTYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLH  
 VTKKNMGMITMIQKLQRQLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFSAFLRASDGSFSLPLK  
 PVTSPQIHDSSKSPGASNLKISRMDKTAGSVRGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPD  
 VHKQYAIVFRTPPYHKMKIERPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRKALPTFSQPF  
 GGGSHMGGGSGGAAGGYGGAGGGSLGFFPSSLAYSQYQSGAGPMRCYPGGGGAQMAATVPSRDSGEEA  
 AEPSAPSRTPQCEPQAPPEMLQRAREYNARLFGLAHAAPSPTRLLRHRGRALLAGQRHLLTAQDENGDP  
 LHLAIIHGQTSVIEQIVYVIHHAQDLGVVNLTNHLHQTPHLAVITGQTSVVSFLLRVGADPALLDRHGD  
 SAMHLALRAGAGAPPELLRALLQSGAPAVPQLLHMPDFEGLYPVHLAVRARSPECLDLLVDSGAEVEATER  
 QGRTALHLATEMEELGLVTHLVTKL RANVNARTFAGNTPLHLAAGLYPTL TRLLLKAGADIHAENEPP  
 LCPLPSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTLVKTL LLLNAAQNTMEPPLTPPSPAGPGLSLG  
 DTALQNLQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPSGLLRSYELAGGDLAGLLEALSDMGLE  
 EGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDLLPAPSPLPGP  
 PVQRPHLFQILFNTPHPLSWDK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

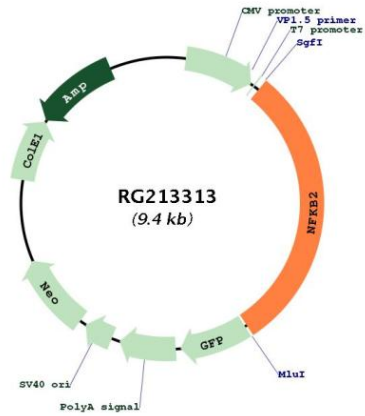
Cloning Scheme:



ACCN: NM\_002502

<b>ORF Size:</b>	2799 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_002502.2</a> , <a href="#">NP_002493.2</a>
<b>RefSeq Size:</b>	3001 bp
<b>RefSeq ORF:</b>	2700 bp
<b>Locus ID:</b>	4791
<b>UniProt ID:</b>	<a href="#">Q00653</a>
<b>Cytogenetics:</b>	10q24.32
<b>Domains:</b>	RHD, DEATH, ANK, IPT
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway, Pathways in cancer
<b>Gene Summary:</b>	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 RG213313