

Product datasheet for **RC238295**

NF-kB p65 (RELA) (NM_001243985) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF-kB p65 (RELA) (NM_001243985) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RELA
Synonyms:	CMCU; NFKB3; p65
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238295 representing NM_001243985
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACGAACTGTTCCCTCATCTTCCGGCAGAGCCAGCCAGGCCTCTGGCCCTATGTGGAGATCA
 TTGAGCAGCCCAAGCAGCGGGCATGCGCTTCCGTACAAGTGGAGGGGCGCTCCGCGGCAGCATCCC
 AGGCGAGAGGAGCACAGATACCACCAAGACCCACCCACCATCAAGATCAATGGCTACACAGGACCAGG
 ACAGTGGCATCTCCCTGGTCACCAAGGACCTCCTCACCGGCCTCACCCACGAGCTTGTAGGAAAGG
 ACTGCCGGATGGCTTCTATGAGGCTGAGCTCTGCCCGACCGCTGCATCCACAGTTTCCAGAACCTGGG
 AATCCAGTGTGTGAAGAAGCGGGACCTGGAGCAGGCTATCAGTCAGCGCATCCAGACCAACAACACCC
 TTCCAAGTTCTATAGAAGAGCAGCGTGGGACTACGACCTGAATGCTGTGCGGCTCTGCTCCAGGTGA
 CAGTGGCGGACCCATCAGGCAGGCCCTCCGCTGCCGCTGTCTTTCTCATCCATCTTTGACAAATCG
 TGCCCCAACACTGCCGAGCTCAAGATCTGCCGAGTGAACCGAACTCTGGCAGCTGCCTCGGTGGGGAT
 GAGATCTTCTACTGTGTGACAAGGTGCAGAAAGAGGACATTGAGGTGATTTACAGGGACCAGGCTGGG
 AGGCCCGAGGCTCCTTTTCGCAAGCTGATGTGCACCGACAAGTGCCATTGTGTTCCGGACCCCTCCCTA
 CGCAGACCCAGCCTGCAGGCTCCTGTGCGTGTCTCCATGCAGCTGCGGCGGCCTCCGACCGGGAGCTC
 AGTGAGCCCATGGAATCCAGTACCTGCCAGATACAGACGATCGTACCAGGATTGAGGAGAAACGTA
 GGACATATGAGACCTTCAAGAGCATCATGAAGAAGAGTCTTTACAGCGGACCCACCGACCCCGGCTCC
 ACCTCGACGATTGCTGTGCCTTCCCGCAGCTCAGTTCTGTCCCAAGCCAGCACCCAGCCCTATCCC
 TTTACGTCATCCCTGAGCACCATCAACTATGATGAGTTTCCACCATGGTGTTCCTTCTGGGCAGATCA
 GCCAGGCTCGGCTTGGCCCCGGCCCTCCCCAAGCTCTGCCAGGCTCCAGCCCTGCCCTGCTCC
 AGCCATGGTATCAGCTCTGGCCCCAGAGGCCCCCGACCCAGCTCCTGCTCCACTGGGGGCCCGGGGCTC
 CCCAATGGCTCCTTTCAGGAGATGAAGACTTCTCCTCATTGCGGACATGGACTTCTCAGCCCTGCTGA
 GTCAGATCAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238295 representing NM_001243985
 Red=Cloning site Green=Tags(s)

MDELFPILFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKHTPIKINGYTGGP
 TVRISLVTKDPPHRPHPHLVGKDCRDGFYEAELCPDRCIHSFQNLGIQCVKRDLQAIQSRIQTNNNP
 FQVPIEEQRGDYDLNAVRLCFQVTVRDPSSGRPLRPPVLSHPIFDNRAPNTAELKICRVNRNSGSLGGD
 EIFLLCDKVQKEDIEVYFTGPGWEARGSFQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDREL
 SEPMEFQYLPDTPDRHRIEKRKRTYETFKSIKKSPPSGPTDPRPPRRIVAPSRSSASVPKPAQPYP
 FTSSLSTINYDEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAMVSALAQRPPDPAPAPLAPGL
 PNGLLSGDEDFSSIADMDFSALLSQISS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001243985.1</u> , <u>NP_001230914.1</u>
RefSeq Size:	2286 bp
RefSeq ORF:	1347 bp
Locus ID:	5970
Cytogenetics:	11q13.1
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway
MW:	50 kDa
Gene Summary:	NF-kappa-B is a ubiquitous transcription factor involved in several biological processes. It is held in the cytoplasm in an inactive state by specific inhibitors. Upon degradation of the inhibitor, NF-kappa-B moves to the nucleus and activates transcription of specific genes. NF-kappa-B is composed of NFKB1 or NFKB2 bound to either REL, RELA, or RELB. The most abundant form of NF-kappa-B is NFKB1 complexed with the product of this gene, RELA. Four transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]