

Product datasheet for **RC234227**

NF-kB p65 (RELA) (NM_001243984) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF-kB p65 (RELA) (NM_001243984) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NF-kB p65
Synonyms:	CMCU; NFKB3; p65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234227 representing NM_001243984
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAACTGTTCCCTCATCTTCCGGCAGAGCCAGCCAGGCCTCTGGCCCTATGTGGAGATCA
 TTGAGCAGCCCAAGCAGCGGGGCATGCGCTTCCGTACAAGTGGAGGGGCGCTCCGCGGCAGCATCCC
 AGGCGAGAGGAGCACAGATACCACCAAGACCCACCCACCATCAAGATCAATGGTACACAGGACCAGGG
 ACAGTGGCATCTCCCTGGTCACCAAGGACCTCCTACCGGCCTCACCCACGAGCTTGTAGGAAAGG
 ACTGCCGGATGGCTTCTATGAGGCTGAGCTCTGCCCGACCGCTGCATCCACAGTTTCCAGAACCTGGG
 AATCCAGTGTGTGAAGAAGCGGGACCTGGAGCAGGCTATCAGTCAGCGCATCCAGACCAACAACACCC
 TTCCAAGTTCTATAGAAGAGCAGCGTGGGACTACGACCTGAATGCTGTGCGGCTCTGCTCCAGGTGA
 CAGTGGGGACCCATCAGGCAGGCCCTCCGCTGCCGCTGTCTTTCTCATCCATCTTTGACAATCG
 TGCCCCAACACTGCCGAGCTCAAGATCTGCCGAGTGAACCGAACTCTGGCAGCTGCCTCGGTGGGGAT
 GAGATCTTCTACTGTGTGACAAGGTGCAGAAAGAGGACATTGAGGTGATTTACAGGGACCAGGCTGGG
 AGGCCCGAGGCTCCTTTTCGCAAGCTGATGTGCACCGACAAGTGGCCATTGTGTTCCGGACCCCTCCCTA
 CGCAGACCCAGCCTGCAGGCTCCTGTGCGTGTCTCCATGCAGCTGCGGCGGCCTCCGACCGGGAGCTC
 AGTGAGCCCATGGAATCCAGTACCTGCCAGATACAGACGATCGTACCAGGATTGAGGAGAAACGTA
 GGACATATGAGACCTTCAAGAGCATCATGAAGAAGAGTCTTTACAGCGGACCCACCGACCCCGGCTCC
 ACCTCGACGATTGCTGTGCCTTCCCGCAGCTCAGCTTCTGTCCCAAGCCAGCCACAGGCCCTCCTCAG
 GCTGTGGCCACCTGCCCAAGCCACCCAGGCTGGGAAGGAACGCTGTGAGGCCCCTGCTGCAGC
 TGCAGTTTGATGATGAAGACCTGGGGCTTGTGGCAACAGCACAGACCCAGCTGTGTTCCAGACCT
 GGATCCGTGACAACTCCGAGTTTACGACGCTGCTGAACAGGCATACCTGTGGCCCCCACAACT
 GAGCCCATGCTGATGGAGTACCCTGAGGCTATAACTCGCCTAGTGACAGGGGCCAGAGGCCCCCGACC
 CAGCTCCTGCTCCACTGGGGGCCCGGGCTCCCCAATGGCTCCTTTACAGGAGATGAAGACTTCTCCTC
 CATTGCGGACATGGACTTCTCAGCCCTGCTGAGTCAGATCAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234227 representing NM_001243984
 Red=Cloning site Green=Tags(s)

MDELFPILFPAEPAQASGPYVEIIEQPKQRGMRFYKCEGRSAGSIPGERSTDTKHTPTIKINGYTGPG
 TVRISLVTKDPPHRPHPELVGKDCRDGFYEALCPDRCIHSFQNLGIQCVKKRDLEQAI SQRIQTNNNP
 FQVPIEEQRGDYDLNAVRLCFQVTVRDPSSGRPLRLPPVLSHPIFDNRAPNTAELKICRVNRNSGSLGGD
 EIFLLCDKVQKEDIEVYFTGPGWEARGFSQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDREL
 SEPMEFYQLPDTDDRHRRIEERKRTYETFKSIMKKSFPSPGTPDRPPRRRIAVPSRSSASVPKPAPGPPQ
 AVAPPAPKPTQAGEGTLSEALLQLQFDDLDLGNSTDPVFTDLASVDNSEFQQLLNQGI PVAPHTT
 EPMLMEYPEAITRLVTGAQRPPDPAPAPL GAPGLPNGLLSGDEDFSSSIADMDFSALLSQISS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001243984

ORF Size: 1446 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:

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_001243984.2](#)

RefSeq Size: 2388 bp

RefSeq ORF: 1449 bp

Locus ID: 5970

UniProt ID: [Q04206](#)

Cytogenetics: 11q13.1

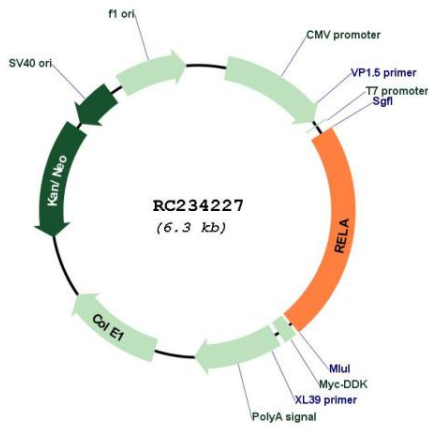
Protein Families: Druggable Genome, Transcription Factors

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: 53.7 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]

Product images:



Circular map for RC234227