

## Product datasheet for **RC226840**

### **NF-kB p65 (RELA) (NM\_001145138) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NF-kB p65 (RELA) (NM_001145138) 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:**

>RC226840 representing NM\_001145138  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACGAACTGTTCCCTCATCTTCCGGCAGAGCCAGCCAGGCCTCTGGCCCTATGTGGAGATCA  
 TTGAGCAGCCCAAGCAGCGGGGCATGCGCTTCCGTACAAGTGGAGGGGCGCTCCGCGGCAGCATCCC  
 AGGCGAGAGGAGCACAGATACCACCAAGACCCACCCACCATCAAGATCAATGGTACACAGGACCAGGG  
 ACAGTGGCATCTCCCTGGTCACCAAGGACCTCCTACCGGCCTCACCCACGAGCTTGTAGGAAAGG  
 ACTGCCGGATGGCTTCTATGAGGCTGAGCTCTGCCCGGACCGCTGCATCCACAGTTTCCAGAACCTGGG  
 AATCCAGTGTGTGAAGAAGCGGGACCTGGAGCAGGCTATCAGTCAGCGCATCCAGACCAACAACACCCC  
 TTCCAAGAAGAGCAGCGTGGGACTACGACCTGAATGCTGTGCGGCTCTGCTTCCAGGTGACAGTGGGG  
 ACCCATCAGGCAGGCCCTCCGCTGCCGCTGTCTTTCTCATCCATCTTTGACAATCGTGCCCCAA  
 CACTGCCGAGCTCAAGATCTGCCGAGTGAACCGAACTCTGGCAGCTGCCTCGGTGGGGATGAGATCTTC  
 CTAAGTGTGACAAGGTGACAAAGAGGACATTGAGGTGATTTACGGGACCAGGCTGGGAGGCCCGAG  
 GCTCCTTTTCGAAGCTGATGTGACCCGACAAGTGGCCATTGTGTTCCGGACCCCTCCCTACGCAGACCC  
 CAGCCTGCAGGCTCCTGTGCGTGTCTCCATGCAGCTGCGGCGGCCTCCGACCGGAGCTCAGTGAGCCC  
 ATGGAATTCAGTACCTGCCAGATACAGACGATCGTCACCGGATTGAGGAGAAACGTAAGGACATATG  
 AGACCTTCAAGAGCATCATGAAGAAGAGTCTTTACGCGGACCCACCGACCCCGGCCTCCACCTCGACG  
 CATTGCTGTGCTTCCCGCAGCTCAGCTTCTGTCCCAAGCCAGCACCCAGCCCTATCCCTTACGTCA  
 TCCCTGAGCACCATAACTATGATGAGTTTCCACCATGGTGTTCCTTCTGGGCAGATCAGCCAGGCT  
 CGGCCTTGCCCGGCCCTCCCAAGTCTGCCAGGCTCCAGCCCTGCCCTGCTCCAGCCATGGT  
 ATCAGCTCTGGCCAGGCCCCAGCCCTGTCCAGTCTAGCCCAAGGCCCTCCTCAGGCTGTGGCCCA  
 CCTGCCCCCAAGCCACCCAGGCTGGGGAAGGAACGCTGTGAGAGCCCTGCTGCAGCTGCAGTTTGATG  
 ATGAAGACCTGGGGCCTTGCTTGGCAACAGCACAGACCCAGCTGTGTTACAGACCTGGCATCCGTCGA  
 CAACTCCGAGTTTACGAGCTGTGAACAGGGCATACTGTGGCCCCCACACAAGTGGCCATGCTG  
 ATGGAGTACCCTGAGGCTATAACTCGCCTAGTGACAGGGGCCAGAGGCCCCCGACCCAGCTCTGCTC  
 CACTGGGGGCCCGGGCTCCCAATGGCTCCTTTCAGGAGATGAAGACTTCTCTCCATTGCGGACAT  
 GGACTTCTCAGCCCTGCTGAGTCAGATCAGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226840 representing NM\_001145138  
 Red=Cloning site Green=Tags(s)

MDELFPILFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKHTPIKINGYTGPG  
 TVRISLVTKDPPHRPHPHLVGKDCRDGFYEALCPDRCIHSFQNLGIQCVKKRDLEQAIQSRIQTNNNP  
 FQEEQRGDYDLNAVRLCFQVTVRDPVSGRPLRLPPVLSHPVIFDNRAPNTAELKICRVNRNSGSLGGDEIF  
 LLDKVKQKEDIEVYFTGPGWEARGSFQADVHRQVAIVFRTPPYADPSLQAPVVRVSMQLRRPSDRELSEP  
 MEFQYLPDTPDRHRIIEKRKRTYETFKSIMKSPFSGPTDPRPPRRRIAVPSRSSASVPKPAPQYPFTS  
 SLSTINYDEFPTMVFPQISQASALAPAPPQVLPQAPAPAPAMVSALAQAPAPVPLAPGPPQAVAP  
 PAPKPTQAGETLSEALLQLQFDEDLGALLGNSTDPVFTDLASVDNSEFQQLLNQIPVAPHTTEPML  
 MEYPEAITRLVTGAQRPPDPAPAPLAPGLPNGLLSGDEDFSSIADMDFSALLSQISS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001145138

**ORF Size:** 1644 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\\_001145138.2](#)

**RefSeq ORF:** 1647 bp

**Locus ID:** 5970

**UniProt ID:** [Q04206](#)

**Cytogenetics:** 11q13.1

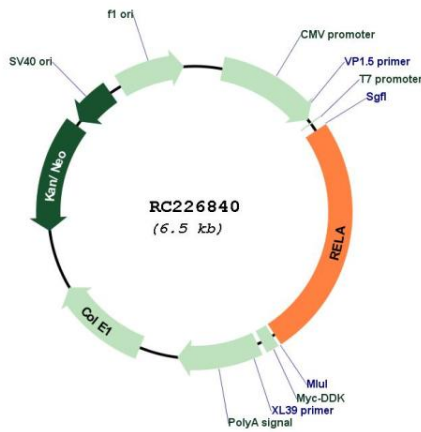
**Protein Families:** Druggable Genome, Transcription Factors

**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:** 59.7 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 RC226840