

Product datasheet for **RG226840**

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:	TurboGFP
Symbol:	NF-kB p65
Synonyms:	CMCU; NFKB3; p65
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226840 representing NM_001145138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAACTGTTCCCTCATCTTCCGGCAGAGCCAGCCAGGCCTCTGGCCCTATGTGGAGATCA
 TTGAGCAGCCCAAGCAGCGGGGCATGCGCTTCCGCTACAAGTGGAGGGGCGCTCCGCGGCAGCATCCC
 AGGCGAGAGGAGCACAGATAACCACCAAGACCCACCCACCATCAAGATCAATGGCTACACAGGACCAGGG
 ACAGTGGCATCTCCCTGGTCACCAAGGACCTCCTACCGGCCTCACCCACGAGCTTGTAGGAAAGG
 ACTGCCGGATGGCTTCTATGAGGCTGAGCTCTGCCCGGACCGCTGCATCCACAGTTTCCAGAACCTGGG
 AATCCAGTGTGTGAAGAAGCGGGACCTGGAGCAGGCTATCAGTCAGCGCATCCAGACCAACAACAACCCC
 TTCCAAGAAGAGCAGCGTGGGACTACGACCTGAATGCTGTGCGGCTCTGCTTCCAGGTGACAGTGGGG
 ACCCATCAGGCAGGCCCTCCGCTGCCGCTGTCTTTCTCATCCATCTTTGACAATCGTGCCCCCAA
 CACTGCCGAGCTCAAGATCTGCCGAGTGAACCGAACTCTGGCAGCTGCCTCGGTGGGGATGAGATCTTC
 CTAAGTGTGACAAGGTGCAGAAAGAGGACATTGAGGTGATTTACGGGACCAGGCTGGGAGGCCCGAG
 GCTCCTTTTCGAAGCTGATGTGCACCGACAAGTGGCCATTGTGTTCCGGACCCCTCCCTACGCAGACCC
 CAGCCTGCAGGCTCCTGTGCGTGTCTCCATGCAGCTGCGGCGGCCTCCGACCGGAGCTCAGTGAGCCC
 ATGGAATTCAGTACCTGCCAGATACAGACGATCGTCACCGGATTGAGGAGAAACGTAAGGACATATG
 AGACCTTCAAGAGCATCATGAAGAAGAGTCCTTTCAGCGGACCCACCGACCCCGGCCTCCACCTCGACG
 CATTGCTGTGCCCTCCCGCAGCTCAGCTTCTGTCCCAAGCCAGCACCCAGCCCTATCCCTTACGTCA
 TCCCTGAGCACCATCAACTATGATGAGTTTCCACCATGGTGTTCCTTCTGGGCAGATCAGCCAGGCT
 CGGCCTTGGCCCGGCCCTCCCAAGTCTGCCAGGCTCCAGCCCTGCCCTGCTCCAGCCATGGT
 ATCAGCTCTGGCCAGGCCCCAGCCCTGTCCAGTCTTAGCCCAAGGCCCTCCTCAGGCTGTGGCCCA
 CCTGCCCCCAAGCCACCCAGGCTGGGGAAGGAACGCTGTGAGAGCCCTGCTGCAGCTGCAGTTTGTG
 ATGAAGACCTGGGGCCTTGTGGCAACAGCACAGACCCAGCTGTGTTACAGACCTGGCATCCGTCGA
 CAACTCCGAGTTTACGAGCTGTGAACAGGGCATACTGTGGCCCCCACACAAGTGGCCATGCTG
 ATGGAGTACCCTGAGGCTATAACTCGCCTAGTGACAGGGGCCAGAGGCCCCCGACCCAGCTCTGCTC
 CACTGGGGGCCCGGGCTCCCAATGGCTCCTTTCAGGAGATGAAGACTTCTCTCCATTGCGGACAT
 GGACTTCTCAGCCCTGTGAGTCAGATCAGCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226840 representing NM_001145138
 Red=Cloning site Green=Tags(s)

MDEL FPLIFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKHTPTIKINGYTGPG
 TVRISLVTKDPPHRPHPELVGKDCRDGFYEAELCPDRCIHSFQNLGIQCVKRDLQEQAI SQRIQTNNNP
 FQEEQRGDYDLNAVRLCFQVTVRDPVSGRPLRPPVLSHPVIFDNRAPNTAELKICRVNRNSGSLGGDEIF
 LLC DKVQKEDIEVYFTGPGWEARGSF SQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDRELSEP
 MEFQYLPDTPDRHRIIEKRKRTYETFKS IMKSPFSGPTDPRPPPRRIAVPSRSSASVPKPAPQYPFTS
 SLSTINYDEFPTMVFP SQISQASALAPAPPQVLPQAPAPAPAMVSALA QAPAPVPLAPGPPQAVAP
 PAPKPTQAGEGTLSEALLQLQFDEDLGALLGNSTDPVFTDLASVDNSEFQQLLNQGIPVAPHTTEPML
 MEYPEAITRLVTGAQRPPDPAPAPL GAPGLPNGLLSGDEDFSSIADMDFSALLSQISS

TRTRPLE – GFP Tag – V

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 Size: 2586 bp

RefSeq ORF: 1647 bp

Locus ID: 5970

UniProt ID: [Q04206](#)

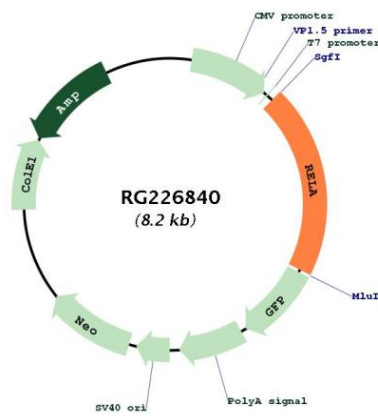
Cytogenetics: 11q13.1

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

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 RG226840