

Product datasheet for **SC325190**

NF-kB p65 (RELA) (NM_001145138) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NF-kB p65 (RELA) (NM_001145138) Human Untagged Clone
Tag:	Tag Free
Symbol:	NF-kB p65
Synonyms:	CMCU; NFKB3; p65
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001145138 edited
 GAATTCGGCACGAGGCGCCCCGGGACCCCGGCCATGGACGAACTGTTCCCCCTCATCTT
 CCCGGCAGAGCCAGCCCAGGCCTCTGGCCCTATGTGGAGATCATTGAGCAGCCCAAGCA
 GCGGGGCATGCGCTTCCGCTACAAGTGCAGGGGGCGCTCCGCGGGCAGCATCCCAGGCGA
 GAGGAGCACAGATACCACCAAGACCCACCCACCATCAAGATCAATGGCTACACAGGACC
 AGGGACAGTGCATCTCCCTGGTCAACAAGACCCTCCTCACCGGCCTACCCCCACGA
 GCTTGTAGGAAAGGACTGCCGGGATGGCTTCTATGAGGCTGAGCTCTGCCCGGACCGCTG
 CATCCACAGTTTCCAGAACCTGGGAATCCAGTGTGTGAAGAAGCGGGACCTGGAGCAGGC
 TATCAGTCAGCGCATCCAGACCAACAACAACCCCTTCCAAGAAGAGCAGCGTGGGACTA
 CGACCTGAATGCTGTGCGGCTCTGCTTCCAGGTGACAGTGCAGGACCCATCAGGCAGGCC
 CCTCCGCCTGCCGCTGTCTTTCTCATCCCATCTTTGACAATCGTGCCCCAACACTGC
 CGAGCTCAAGATCTGCCGAGTGAACCGAAACTCTGGCAGCTGCCTCGGTGGGGATGAGAT
 CTTCTACTGTGTACAAGGTGCAGAAAGAGGACATTGAGGTGTATTTACGGGACCAGG
 CTGGGAGGCCCGAGGCTCCTTTTCGCAAGCTGATGTGCACCGACAAGTGCCATTGTGTT
 CCGGACCCCTCCCTACGCAGACCCAGCCTGCAGGCTCCTGTGCGTGTCTCCATGCAGCT
 GCGGCGGCCTTCCGACCGGGAGCTCAGTGAGCCATGGAATTCCAGTACCTGCCAGATAC
 AGACGATCGTCACCGGATTGAGGAGAAAAGTAAAAGGACATATGAGACCTTCAAGAGCAT
 CATGAAGAAGAGTCTTTTCAGCGGACCCACCGACCCCGGCTCCACCTCGACGCATTGC
 TGTGCCTTCCCGCAGCTCAGCTTCTGTCCCAAGCCAGCACCCAGCCCTATCCCTTTAC
 GTCATCCCTGAGCACCATCAACTATGATGAGTTTCCCACCATGGTGTTCCTTCTGGGCA
 GATCAGCCAGGCCTCGGCCTTGGCCCCGGCCCCCCCCAAGTCTGCCCCAGGCTCCAGC
 CCCTGCCCTGCTCCAGCCATGGTATCAGCTCTGGCCCAGGCCCCAGCCCTGTCCAGT
 CCTAGCCCCAGGCCCTCCTCAGGCTGTGGCCCCACCTGCCCCAAAGCCCAACCCAGGCTGG
 GGAAGGAACGCTGTCAGAGGCCCTGCTGCAGTGTGATGATGAAGACCTGGGGGC
 CTTGCTTGGCAACAGCACAGACCCAGCTGTGTTACAGACCTGGCATCCGTCGACAACCT
 CGAGTTTCAGCAGCTGCTGAACAGGGCATACTGTGGCCCCCACAACTGAGCCCAT
 GCTGATGGAGTACCCTGAGGCTATAACTCGCCTAGTGACAGGGGCCAGAGGCCCCCGA
 CCCAGCTCCTGCTCCACTGGGGGCCCGGGGCTCCCAATGGCCTCCTTTCAGGAGATGA
 AGACTTCTCCTCATTGCGGACATGGACTTCTCAGCCCTGCTGAGTCAGATCAGCTCCTA
 AGGGGGTGACGCCTGCCCTCCCCAGAGCACTGGGTTGCAGGGGATTGAAGCCCTCCAAA
 GCATTACGGATTCTGGTGGGGTGTGTTCCAAGTCCCCCAACTTGTGGATGTCTTCTCT
 TGGAGGGGGAGCCATATTTTATTCTTTTATTGTCAAGTATCTGTATCTCTCTCTTTTT
 GGAGGTGCTTAAGCAGAAGCATTAACTTCTCTGAAAGGGGGGAGCTGGGGAAACTCAA
 CTTTTCCCTGTCTGATGGTCAGCTCCCTTCTCTGTAGGGAACCTCTGGGGTCCCCATC
 CCCATCTCCAGCTTCTGGTACTCTCCTAGAGACAGAAGCAGGCTGGAGGTAAGGCCCTT
 GAGCCACAAAGCCTTATCAAGTGTCTTCCATCATGGATTATTACAGCTTAATCAAAAT
 AACGCCCCAGATACCAGCCCCTGTATGGCACTGGCATTGTCCCTGTGCCTAACACCAGCG
 TTTGAGGGGCTGGCCTTCTGCCCTACAGAGGTCTCTGCCGCTCTTTCTTGTCAACC
 ATGGCTGAAGGAAACAGTGCAACAGCACTGGCTCTCTCCAGGATCCAGAAGGGGTTTGG
 TCTGGGACTTCTTGTCTCCCTTCTCAAGTGCCTTAATAGTAGGGTAAGTTGTTAAG
 AGTGGGGGAGAGCAGGCTGGCAGCTCTCAGTCAGGAGGCATAGTTTTTACTGAACAATC
 AAAGCACTTGGACTCTTGTCTTCTACTCTGAACTAATAAATCTGTTGCCAAGCTGGAA
 AA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_001145138
Insert Size: 2600 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<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_001145138.1</u> , <u>NP_001138610.1</u>
RefSeq Size:	2586 bp
RefSeq ORF:	1647 bp
Locus ID:	5970
UniProt ID:	<u>Q04206</u>
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:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site at one of the coding exons compared to transcript variant 1. This results in a shorter isoform (2) missing a 3 aa segment compared to isoform 1.</p>