

Product datasheet for **MR208842**

Relb (NM_009046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Relb (NM_009046) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Relb
Synonyms:	shep
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208842 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGAGTCGCCGCGCTGCCAGAGAGTCCGCGCCGAGCTAGGGGCCTTGGTTCCAGTGACCTCTCTT
 CCCTGTCACTAACGGTCTCCAGGACCACAGATGAATTGGAAATCATCGACGAATACATTAAGGAGAACGG
 CTTTGGCCTGGACGGGACACAGCTGAGTGAGATGCCGCGCCTGGTCCCCGCGGGCCCGCTCACTGAGC
 AGCGTCACGCTGGGCCCTGCTGCACCACCCTCCGGCCACGCCGCTCTGGAGCTGCACACTGGGCAGGC
 TGGTGTCAACCGGCCGTCGCCACGGCCGTACCTGGTCATCACAGAGCAGCCAAAGCAGCGTGGCATGCG
 CTTCCGCTACGAGTGGAGGGCCGCTCGGCCGGCAGCATCCTCGGGGAGAGCAGCACCGAAGCCAGCAAG
 ACCCTGCCGCCATCGAGCTTCGAGACTGTGGCGGGCTGCGGGAGGTGGAGGTGACGGCGTGCCTGGTGT
 GGAAGGACTGGCCACACCGGGTACACCCACATAGCCTCGTGGGAAAGACTGCACGGACGGCGTCTGCAG
 GGTGCGGCTGCGGCCTCACGTACGCCCCGGCACAGCTTTAAACCTGGGCATCCAGTGTGTTAGGAAG
 AAGGAAATTAAGCTGCCATTGAGCGGAAGATCCAGCTGGGAATTGACCCCTACAATGCTGGCTCCCTGA
 AGAACCATCAGGAGGTCGACATGAATGTCGTCAGGATCTGCTTCCAGGCCTCTATCGGGACCAGCAGGG
 ACATCTGCACCGCATGGACCCCATCCTCTCTGAGCCTGTCTACGACAAGAAGTCCACCAACACATCGGAG
 CTGCGGATTTGCCGAATCAACAAGGAGAGCGGGCCGTCACAGGTGGTGGAGGAGTGTACTTGTCTGTG
 ACAAGGTGCAAAAAGAGGACATATCCGTGGTGTTCAGCACAGCTTCTGGGAAGGCCGTCGCCACTTCTC
 TCAAGCTGATGTGACCGGCAGATCGCCATTGTGTTCAAAACGCCACCCTACGAGGACCTGGAGATCTCA
 GAGCCCCGTGACTGTCAATGTGTTCTTGCAGCGGCTCACGGATGGGGTGTGACGCGAGCCGCTGCCCTCA
 CGTACTGCCTCGGGATCATGACAGCTACGGTGTGGACAAGAAGCGAAAGCGGGGACTGCCTGATGTCCT
 TGGAGAGTTGAGCAGCTCTGATCCACATGGAATCGAGAGCAAACGAAGGAAAAAGAAACAGTGTCTTG
 GACCACTTCTGCCTGGCCACAGCTCAGGCCTGTTCTCCACCATCGGCTCTGCAGCCGCAGACTCTG
 ATTTCTTCCCTGCTTCCATATCCCTTCTGGGCTGGAGCCTCCTGGTGGACCCGATCTCCTGGACGATGG
 CTTTGCCTATGATCCTTCTGCCCCACGCTCTTCACTATGTTGGACCTGTGCCCCAGCACCACCCTT
 GCCAGTGTGTGGTGGTAGCGGGGTGCAGGGGCCACCCTTGTGGAGTCTTCTGGCCAGAGCCCTAT
 CACTGGACTCTTTGCAGCGCCGGGCCCGGGGATGTTGGTACTGCTAGCCTTGTGGGCAGCAACATGTT
 TCCAACAGTACCGAGAGGCAGCTTTCGGGGTGGCCTCCTATCTCCAGGCCTGAAGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208842 protein sequence
 Red=Cloning site Green=Tags(s)

MPSRRARESAPELGALGSSDLSLSTVSRRTDELEIIDEYIKENGFGLDGTQLSEMPRLVPRGPASLS
 SVTLGPAAPPPATPSWSCTLGRLVSPGPCRPYLVITEQPKQRGMRFRYECEGRSAGSILGESSTEASK
 TLPAILRDCGGLREVEVTAQLVWKDWPVRVPHSLVVKDCTDGVCVRVLRPHVSPRHSFNLIQCVRK
 KEIEAAIERKIQLGIDPYNAGSLKNHQEVDNMVVRICFQASYRDQQGHLHRMDPILSEPVYDKKSTNTSE
 LRICRINKESGPCTGGEELYLLCDKVQKEDI SVVFSTASWEGRADFSQADVHRQIAIVFKTPPYEDLEIS
 EPVTVNVFLQRLTDGVCSEPLPFTYLPRDHDSYGVDKRKRGLPDVLELSSSDPHGIESKRRKKKPVFL
 DHFLPGHSSGLFLPPSALQPADSDFPASISLPGLEPPGGPDLLDDGFAYDPSAPTLFTMLDLLPPAPPL
 ASAVVSGSGAGATVVESGPEPLSLDSFAAPGPGDVGATSLVGSNMFNPQYREAAFGGGLLSPGPEAT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_009046

ORF Size: 1677 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_009046.2](#), [NP_033072.2](#)
RefSeq Size: 2218 bp

RefSeq ORF: 1677 bp

Locus ID: 19698

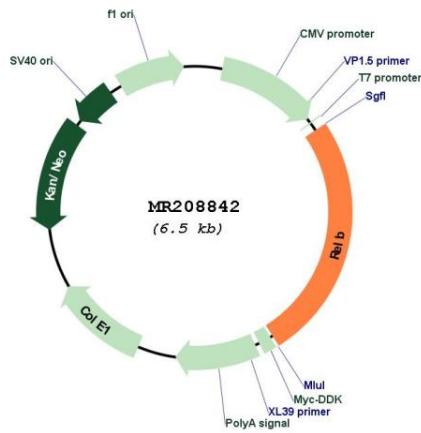
UniProt ID: [Q04863](#)

Cytogenetics: 7 9.93 cM

MW: 60.3 kDa

Gene Summary: NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric RelB-p50 and RelB-p52 complexes are transcriptional activators. RELB neither associates with DNA nor with RELA/p65 or REL. Stimulates promoter activity in the presence of NFKB2/p49 (By similarity). As a member of the NUPR1/RELB/IER3 survival pathway, may allow the development of pancreatic intraepithelial neoplasias. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer in a CRY1/CRY2 independent manner. Increased repression of the heterodimer is seen in the presence of NFKB2/p52. Is required for both T and B lymphocyte maturation and function (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208842