

## Product datasheet for **MC228286**

### Relb (NM\_001290457) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Relb (NM_001290457) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Relb
Synonyms:	shep
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228286 representing NM\_001290457  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGCCAGTCGCCGCGCTGCCAGAGAGTCCGCGCCGAGCTAGGGGCCTTGGTTCCAGTGACCTCTCTT  
 CCCTGTCACTAACGGTCTCCAGGACCACAGAAATCATCGACGAATACATTAAGGAGAACGGCTTTGGCCT  
 GGACGGGACACAGCTGAGTGAGATGCCGCGCTGGTGCCCGCGGGCCCGCTCACTGAGCAGCGTCACG  
 CTGGGCGCTGCTGCACCACCGCTCCGGCCACGCGCTCTGGAGCTGCACACTGGCAGGCTGGTGTAC  
 CCGGCCGTGCCACGGCCGTACCTGGTCATCACAGAGCAGCCAAAGCAGCGTGGCATGCGCTTCCGCTA  
 CGAGTGCAGGGCCGCTCGGCCGCGAGCATCTCGGGGAGAGCAGCACCAGCCAGCAAGACCTGCC  
 GCCATCGAGCTTCGAGACTGTGGCGGGTGCAGGAGGTGAGGTGACGGCGTGCCTGGTGTGAAGGACT  
 GGCCACACCGGTACACCCATAGCCTCGTGGGAAAGACTGCACGGACGGCGTCTGCAGGTGCGGT  
 GCGGCCTCAGTCAGCCCCGGCACAGCTTTAACAACTGGGCATCCAGTGTGTTAGGAAGAAGGAAATT  
 GAAGCTGCCATTGAGCGGAAGATCCAGCTGGGAATTGACCCTACAATGCTGGCTCCCTGAAGAACCATC  
 AGGAGGTGCACATGAATGTCGTGAGGATCTGCTCCAGGCCTCCTATCGGACCAGCAGGGACATCTGCA  
 CCGCATGGACCCATCCTCTGAGCCTGTCTACGACAAGAAGTCCACCAACACATCGGAGCTGCGGATT  
 TGCCGAATCAACAAGGAGAGCGGCCGTGCACAGGTGGTGAAGAGCTGTACTTGCTCTGTGACAAGGTGC  
 AAAAAGAGGACATATCCGTGGTGTTCAGCACAGCTTCTGGGAAGGCCGTGCCGACTTCTCTCAAGCTGA  
 TGTGCACCGGCAGATCGCCATTGTGTTCAAAACGCCACCCTACGAGGACCTGGAGATCTCAGAGCCCGTG  
 ACTGTCAATGTGTTCTTGACGCGCTCACGGATGGGTGTGCAGCGAGCCGCTGCCCTTCACGTACCTGC  
 CTCGGGATCATGACAGCTACGGTGTGGACAAGAAGCGAAAGCGGGGACTGCCTGATGTCTTGGAGATT  
 GAGCAGCTCTGATCCACATGGAATCGAGAGCAAACGAAGGAAAAAGAAACCAAGTGTCTTGACCACTTC  
 CTGCTTGCCACAGCTCAGGCCTGTTCTCCACCATCGGCTCTGCAGCCGCGAGACTCTGATTTCTTCC  
 CTGCTTCCATATCCCTTCTGGCTGGAGCCTCCTGGTGGACCCGATCTCTGGACGATGGCTTTGCCTA  
 TGATCCTTCTGCCCCACGCTTCTCACTATGTTGGACCTGCTGCCCCAGCACCACCACTTGCCAGTGCT  
 GTGGTGGGTAGCGGGGTGCAGGGGCCACCGTTGTGGAGTCTTCTGGCCAGAGCCCTATCACTGGACT  
 CTTTTCAGCGCCGGGCCCGGGATGTTGGTACTGCTAGCCTTGTGGGAGCAACATGTTTCCAACCA  
 GTACCGAGAGGCAGCTTTCGGGGTGGCTCCTATCTCCAGGGCCTGAAGCCACG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001290457

**Insert Size:** 1668 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001290457.1, NP_001277386.1</u>
<b>RefSeq Size:</b>	2194 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	19698
<b>UniProt ID:</b>	<u>Q04863</u>
<b>Cytogenetics:</b>	7 9.93 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>