

Product datasheet for **RN207304**

Creb3l1 (NM_001005562) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb3l1 (NM_001005562) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Creb3l1
Synonyms:	Oasis
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN207304 representing NM_001005562
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCGCTCTTGAACCTTTCCCGGCCGACAGGCTGTTCCCGGGATCCAGCTTCTGGACTTGGGAG
 ACCTGAATGAGTCGGATTTCTCAACAATGCGCACTTCCCGGAGCACCTGGACCCTTTGTGGAGAACAT
 GGAGGACTTCTCAATGACCTGTTGAGCAGCTTCTTTGATGACCTGTGCTGGATGAGAAGAGCCCTCTG
 CTGGACATGGAAGTGGATTCCCCTGCTCCAGGCATCCAGGCTGAGCACAGCTACTCCCTGAGTGGGGATT
 CTGACCCCCAGAGCCCCCTGTGCCTGTCAAAATGGAGGATACCACCAAGATATGGAACACGGAGCATG
 GGCCTGGGAAACAACTGTGCTCCATTATGGTGAAGCAGGAGCAGAGCCCGGAGCTTCCGGTTGACCCC
 CTGGCTGCCTCTCCGCATGGCTGCTGCTACCATGGCCACCCACCCTGCTGGCCTCAGCCCCATCT
 CCAGGCTGCCATCCCTACCAGGCCCCAGGAGAAATGACTCAGCTGCCAGTGATCAAAGCAGAGCCCC
 GGAATGAGCCAGTTTCTCAAAGTGACACAAGAGGACCTCGTACAGATGCCTCCAACACCCCCCAGCAGC
 CATGGCAGTGACAGTGACGGCTCCAGAGTCCCGCTCTCTTCCCCCTCCAGCCCTGTCCGGCCCATGG
 CCCGCTCTCCACGGCCATTTCCACCTCTCCGCTCCTCACTGCCCTCACAACTGCAGGGGACATCAGG
 GCCACTGCTCTTGACAGAAGAGGAGAAGCGAATTTGATCGCCGAGGGTTATCCCATCCCCACAAACTC
 CCCCTACCAAGGCTGAGGAGAAGGCCCTGAAGAGAGTGCGCAGGAAAATTAAGAACAAGATCTCTGCC
 AGGAGAGCCCGCCAAAAAGAAGGAGTATGTGGAGTGTCTAGAGAAGAAGGTGGAGACATATACATCAGA
 GAACAATGAAGTGGGAAGAAGTGGAAACCCTAGAGACTGCCAACAGGACCCTGCTCCAGCAGCTGCAG
 AAATCCAGACTCTGGTACCAGCAAGATCTCCAGACCTTACAAGATGGCGGCCACACAGACTGGCACTT
 GCCTCATGGTGGCAGCCTTGCTTTGTTCTGGTGTGGGCTCACTTGGCCCTGCCTTCTGATTCTC
 TTCTGGCTCAAAGACTGTGAAAGAAGACCCCGTGCAGCTGACAGTGTCTACGCAGCCAGTCAGATGCCT
 TCCCGAAGCCTGCTGTTTTATGATGATGGGCGAGGCTCCTGGGAAGATGGCCACCAGGCTCTACTGC
 CTGTGGAGCCCCAGAAGGCTGGGAGCTCAAACCCGGGGACCAGCAGAGCCGAGCCCCAGGACCCT
 CCGACATGACCATGCGGACAGCATCCACGAGACAACCAAGTACTTGAGAGAGACTGGCCAGAGGATACC
 GAGGACAATGGCGCCAGCCCCAATTTCTCCACCCCAAGGAGTGGTTCACGACAGGGATCTGGGCCCA
 ACACCACCATCAAATCTCT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001005562

Insert Size: 1563 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).

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_001005562.1](#), [NP_001005562.1](#)

RefSeq Size: 2672 bp

RefSeq ORF: 1563 bp

Locus ID: 362165

UniProt ID: [Q66HA2](#)

Cytogenetics: 3q24

Gene Summary: Transcription factor involved in unfolded protein response (UPR). Binds the DNA consensus sequence 5'-GTGXGCXGC-3' (By similarity). In the absence of endoplasmic reticulum (ER) stress, inserted into ER membranes, with N-terminal DNA-binding and transcription activation domains oriented toward the cytosolic face of the membrane. In response to ER stress, transported to the Golgi, where it is cleaved in a site-specific manner by resident proteases S1P/MBTSP1 and S2P/MBTSP2. The released N-terminal cytosolic domain is translocated to the nucleus to effect transcription of specific target genes. Plays a critical role in bone formation through the transcription of COL1A1, and possibly COL1A2, and the secretion of bone matrix proteins. Directly binds to the UPR element (UPRE)-like sequence in an osteoblast-specific COL1A1 promoter region and induces its transcription. Does not regulate COL1A1 in other tissues, such as skin (By similarity). Required to protect astrocytes from ER stress-induced cell death. In astrocytes, binds to the cAMP response element (CRE) of the BiP/HSPA5 promoter and participate in its transcriptional activation (By similarity). Required for TGFB1 to activate genes involved in the assembly of collagen extracellular matrix (By similarity).[UniProtKB/Swiss-Prot Function]