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Product datasheet for MC205492

Creb3l1 (NM_011957) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb3l1 (NM_011957) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Creb3l1
Synonyms:	Oasis
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

Fully Sequenced ORF:

>BC016447
GGAAAGCGCAGCCCGAAGGGGTCCCCTGGAACCCGGCGCGATGGACGCCGTCTTGGAACCTTTCCCGGCC
GACAGGCTGTTCCCGGGATCCAGCTTCCTGGACTTGGGAGACCTGAATGAGTCGGATTTCCTCAACAATG
CGCACTTCCCGGAGCACCTGGACCACTTTGTGGAGAACATGGAGGACTTCTCCAATGACCTGTTCAGCAG
TTTCTTTGATGACCCTGTGCTGGACGAGAAGAGTGCTCTGCTGGACATGGAACTGGACTCCCCCGCTCCA
GGCATCCAGGCTGAGCACAGCTACTCCCTGAGTGGGGATTCTGCACCCCAGAGCCCCCTTGTGCCTGTCA
AGATGGAGGACACCACTCAAGATGTGGAACACGGAGCGTGGGCCCTGGGAAACAAGCTGTGCTCCATCAT
GGTGAAGCAGGAGCAGAGCCCGGAGCTGCCTGTAGATCCCCTGGCTGCCTCCTCTGCCATGGCTGCTGCC
GCCGCCATGGCCACCCCACCACTGCTGGGCCTCAGCCCCATGCCCCGGCTGCCCATCCCTCACCAGGCCC
CAGGAGAAATGACTCAGCTGCCAGTGATCAAAGCAGAGCCCCCAGAAATGAGCCAGTTTCTCAAAGTGAC
ACCAGAGGACCTCGTACAGATGCCTCCAACACCCCCCAGCAGCCATGGCAGTGACAGTGACGGCTCCCAG
AGTCCCCGCTCTCTTCCCCCCTCCAGCCCTGTCCGGCCCATGGCCCGCTCCTCCACGGCCATTTCCACCT
CTCCGCTCCTCACTGCCCCTCACAAACTGCAGGGGACATCAGGGCCACTGCTCTTGACAGAAGAGGAGAA
GCGGACCTTGATCGCGGAGGGTTACCCTATCCCCACCAAGCTCCCCCTCACCAAGGCTGAGGAGAAGGCC
TTGAAGAGAGTACGCAGGAAAATTAAGAACAAGATTTCTGCCCAGGAGAGCCGCCGCAAGAAGAAGGAGT
ATGTGGAATGTCTAGAAAAGAAGGTGGAGACATATACATCAGAGAACAATGAGCTGTGGAAGAAAGTGGA
AACCCTAGAGACTGCCAACAGGACCCTGCTCCAGCAGCTGCAGAAACTCCAGACTCTGGTCACCAGCAAG
ATCTCCAGACCGTACAAGATGGCAGCCACGCAGACCGGCACCTGCCTCATGGTGGCAGCCTTGTGCTTCG
TTCTGGTGCTGGGCTCCCTTGTGCCCTGCCTTCCTGCATTCTCTTCCGGCTCAATGACTGTGAAAGAAGA
CCCTATCGCAGCTGACAGTGTCTATGCAGCCAGTCAGATGCCTTCCCGAAGCCTACTGTTCTACGATGAT
GGGGCAGGCTCATGGGAAGATGGCCGAGGTGCTCTACTGCCTGTGGAGCCCCCAGAAGGCTGGGAGCTCA
AACCCGGGGGTCCAGCAGAGCAGAGGCCCCAGGACCACCTCCGACATGACCGTGCAGACAGCATCCATGA
GACCACCAAGTACTTGAGAGAGACCTGGCCAGAGGACACTGATGACAACGGCACCAGCCCCAACTTCTCC
CACCCCAAGGAGTGGTTCCATGACAGGGATCTGGGCCCCAACACCACCATCAAACTCTCCTAGGCCACTC
CAAGACCCAGGACACAGGACGGACACCCTGGCACCCAGAAGAGGCGTTCTCTTGCTCGATGACCCAGATC
CAGCTCATACCCCTGCCCCCCCGGGTCCCTGTAGTAGCTGGGGACGCTCTATGTCCCCAGACACTTGGAC
TGCTCCCCTGGGCTGACCACTCCGTTCCCACCTTTCCCTCCTACCACTATCCGTCCTCCTCCGATAAACC
ACTCACTGGGCTACCCGTTTCCTTCCCATAGTGACCAACGCAACCACTGTTCCTGGCCCCCTCATACACA
AACACACAAGCAGACATACACACACAAACACACACCCCCATCTCCTACTGTACAGAGACCAAGAACAGAA
ATCGTTTGTAAATAATGAACCTTATTTTTTATTATTGTCAATCCCCTAAGATATTGTATTTTACAAATCT
CCCTCCCGTCACCTCTCCCTTATTTTGTATTTTATGAAGTTAGTGCGGGCTTTGCTACCCCTTGGCCTGG
GGAAGAGGGACACCCCACCCTCACCAGGCCTCTCCCTGCTGCTGCCCAAGCTGCTGGGCCTTTTTAATTT
GCCAAACTGCTCCTCCACCAGCTCAGCACATGCTTTAAGAAGGCAAAATTAAAAAAAAAAAAAAAGATTCA
GCATCAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_011957

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:	BC016447, AAH16447
RefSeq Size:	2260 bp
RefSeq ORF:	1563 bp
Locus ID:	26427
UniProt ID:	Q9Z125
Cytogenetics:	2 E1
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/MBTPS1 and S2P/MBTPS2. 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 (PubMed:19767743). 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 (PubMed:15665855). Inhibits cell-cycle progression by binding to promoters and activating transcription of genes encoding cell-cycle inhibitors, such as p21/CDKN1A (By similarity). Required for TGFB1 to activate genes involved in the assembly of collagen extracellular matrix (By similarity). [UniProtKB/Swiss-Prot Function]