

Product datasheet for **MR208154**

Creb3l1 (NM_011957) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb3l1 (NM_011957) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Creb3l1
Synonyms:	Oasis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208154 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCCGTCTTGAACCTTTCCCGGCCGACAGGCTGTTCCCGGGATCCAGCTTCTGGACTTGGGAG
 ACCTGAATGAGTCGGATTTCTCAACAATGCGCACTTCCCGGAGCACCTGGACCCTTTGTGGAGAACAT
 GGAGGACTTCTCAATGACCTGTTGACGAGTTTCTTTGATGACCTGTGCTGGACGAGAAGAGTGCTCTG
 CTGGACATGGAAGTGGACTCCCCGCTCCAGGCATCCAGGCTGAGCACAGCTACTCCCTGAGTGGGGATT
 CTGACCCCCAGAGCCCCCTGTGCCTGTCAAGATGGAGGACACCACTCAAGATGTGGAACACGGAGCGTG
 GGCCCTGGGAAACAAGCTGTGCTCCATCATGGTGAAGCAGGAGCAGAGCCCGGAGCTGCCTGTAGATCCC
 CTGGCTGCCTCCTGCCATGGCTGTGCCGCCCATGGCCACCCACCACTGCTGGCCCTCAGCCCCA
 TGCCCCGGCTGCCATCCCTCACCAGGCCCCAGGAGAAATGACTCAGCTGCCAGTGATCAAAGCAGAGCC
 CCCAGAAATGAGCCAGTTTCTCAAAGTGACACCAGAGGACCTCGTACAGATGCCTCAAACACCCCCCAGC
 AGCCATGGCAGTGACAGTGACGGCTCCCAGAGTCCCCGCTCTTCCCCCTCCAGCCCTGTCCGGCCCA
 TGGCCCGCTCCTCCACGGCCATTTCCACCTCTCCGCTCCTCACTGCCCTCACAACCTGCAGGGGACATC
 AGGGCCACTGCTCTTGACAGAAGAGGAGAAGCGGACCTTGATCGCGGAGGGTTACCTATCCCCACCAAG
 CTCCCCCTCACCAAGGCTGAGGAGAAGGCTTGAAGAGAGTACGCAGGAAAATTAAGAACAAGATTTCTG
 CCCAGGAGAGCCGCCGAAGAAGAAGGAGTATGTGGAATGTCTAGAAAAGAAGGTGGAGACATATACATC
 AGAGAACAATGAGCTGTGGAAGAAGTGGAAACCTAGAGACTGCCAACAGGACCCTGCTCCAGCAGCTG
 CAGAAACTCCAGACTCTGGTACCAGCAAGATCTCCAGACCGTACAAGATGGCAGCCACGCAGACCCGCA
 CCTGCTCATGGTGGCAGCCTTGTGCTTGTGCTGGTGCCTCCCTGTGCCCTGCCTCCTGCTGATT
 CTCTCCGGCTCAATGACTGTGAAAGAAGACCCTATCGCAGCTGACAGTGTCTATGCAGCCAGTCAGATG
 CCTTCCGAAGCCTACTGTTCTACGATGATGGGCGAGGCTCATGGGAAGATGGCCGAGGTGCTCTACTGC
 CTGTGGAGCCCCAGAAGGCTGGGAGCTCAAACCCGGGGTCCAGCAGAGCAGAGCCCCAGGACCCT
 CCGACATGACCGTGACAGCAGCATCCATGAGACCACCAAGTACTTGAGAGAGACCTGGCCAGAGGACACT
 GATGACAACGGCACCCAGCCCCAACTTCTCCACCCCAAGGAGTGGTTCATGACAGGGATCTGGGCCCA
 ACACCACCATCAAACCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208154 protein sequence
 Red=Cloning site Green=Tags(s)

MDAVLEPFPADRLFPSSFLDLGDLNESDFLNNAHFPEHLDFVENMEDFSNDLFSFFDDPVLDEKSAL
 LDMELDSPAPGIAEHSYSLSGDSAPQSPLVPVKMEDTTQDVEHGAWALGNKLCSIMVKQEQSPPELVPDP
 LAASSMAAAAAMATPPLLGLSPMPRLIPHQAPGEMTQLPVIIKAEPPEMSQFLKVTPEDLVQMPPTPPS
 SHGSDSDGSQSPRSLPPSSPVRPMARSSTAISTSPLLTAPHKLQGTSGPLLLTEEEKRTLIAEGYIPTK
 LPLTKAEKALKRVRRIKNIKISAEQSRKKKEYVECLEKKVETYSENNELWKKVETLETANRLLQQL
 QKLQTLVTSKISRYPYKMAATQTGTCLMVAALCFVLVLGSLVPCLPAFSSGSMTVKEDPIAADSVAASQM
 PSRSLLFYDDGAGSWEDGRGALLPVEPPEGWELKPGGPAEQRPQDHLRHRADSIHETTKYLRETWPEDT
 DDNGTSPNFSHPKEWFHHRDLGNPTTIKLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_011957

ORF Size: 1563 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_011957.2](#), [NP_036087.2](#)

RefSeq Size: 2284 bp

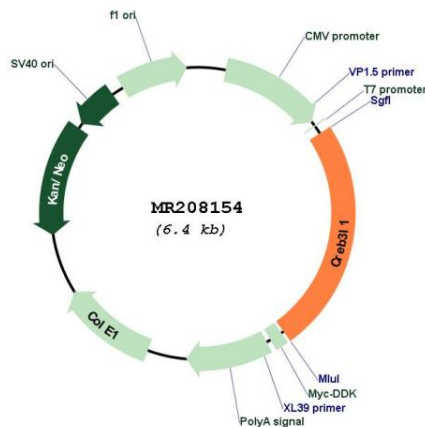
RefSeq ORF: 1563 bp

Locus ID: 26427

UniProt ID: [Q9Z125](#)

Cytogenetics:	2 E1
MW:	57.1 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for MR208154