

Product datasheet for **RN208758**

Creb3l2 (NM_001012188) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb3l2 (NM_001012188) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Creb3l2
Synonyms:	Ra69; SCIRR69
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208758 representing NM_001012188
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGCTGGAGAGCGGGGAGCAGAGTGTCTCTGCAGTGGACCGCAAGCTGAGCGAGCTGTCAGAAC
 CCGGAGAGACTGAGGCTCTCATGTACCACACGCACTTCTCAGAGCTCCTGGATGAGTTTTCCAGAACGT
 CTTGGGTGAGCTCCTGAATGACCCCTTCTCTCAGAGAAGAGCGTGTCCATGGAGGTGGAGCCATCTCCC
 ACATCACCAGCACCTCTCATCCAGGCTGAACACAGCTACTCTCTGAGCGAGGAGCCCCGGGCTCAGTCAC
 CATTTACCACGTGGCTGCCAGCGATGGCTTCAATGACGAGGAGGTGGAGAGTGAGAAAATGGTACCTGTC
 TACAGAGTTTCTTACGCTACCATCAAGACAGAGCCCATCACAGAGGAGCAGCCCCAGGACTTGTCCCT
 TCTGTCACTCTGACCATCACAGCCATTTCCACTCCGTTTGAAAAAGAAGAGTCCCCTCTGGATATGAGTG
 CTGGGGGAGACTCCTCATGCCAGACACTTATTCTAAGATTAAGCTGGAGCCGCATGAAGTGGATCAATT
 CTTAAACTTCTCTCCGAAAGAGGCTCCGTGGACCAGCTGCATTACCACCCACACCACCCAGTAGTCAC
 AGCAGTACTCTGAGGGCAGCTTGGACCCCAACCCACGTCTGCATCCCTTCAGCCTCTCTCAGGCCACA
 GCCCCGGCAGAGCCATGCCCCGGGGCCCTCTGCCTTGTCCACATCTCCTCTCCTCACAGCTCCACATAA
 ACTGCAGGGGTCGGGCCACTGGTCTGACAGAGGAAGAGAAGAGGACCTTGATTGCCGAGGGCTATCCC
 ATTCACAACTGCCCCTGACAAAATCTGAGGAGAAGGCCCTGAAGAAAATCCGGAGAAAAGATCAAGA
 ATAAGATTTCTGCCAAGAAAGCAGGAGGAAGAAGAAAGAATACATGGATAGCTTGGAGAAAAAGTGGA
 GTCTTGTCAACCGAGAAGCTTGGAGCTTCGGAAGAAGTGGAGGTGCTGGAGAACACCAACAGGACTCTC
 CTTACGCACTTCAGAAGCTTCAGACTTTGGTGTGGGGAAGGTCTCTCGAACCTGCAAGTTAGCTGGTA
 CACAGACTGGCACCTGCCTCATGGTCGTTGCTTTGCTTTGCGGTTGCATTTGGCAGCTTTTCAAGT
 CTACGGGCTGTATCCTTCTGCCACCAAGATGGCTCTGCCAGCCAGCACCCCTGTCCGAGCCATACACA
 GCCTCCGTGGTGAGATCCAGGAACCTGCTAATCTATGAGGAACACTCTTCCCTGGAAGAGTCGTCACGCC
 CAGCCTCGGCTGGAGAGCTCGGGGGCTGGGACAGAGGCTCCTCTCTGCTCAGGGGCTCGTCCGGTTGGA
 GGCCCTGCCCGAGGTGGATCTTCCCAATTTATTCTCCAAGGAGACCAGCTTGGAGAAGTCAGTGCTG
 TTGGAGCTTCAGCAGCACCTGGTCAGCAGCAAAGTAGAGGGGAACGAAACACTCAAGTTGTAGAAGTGG
 AGAGGAGAGTGAACGCCACCTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001012188

Insert Size: 1566 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_001012188.1](#), [NP_001012188.1](#)

RefSeq Size: 3321 bp

RefSeq ORF: 1566 bp

Locus ID: 362339

UniProt ID: [Q6QDP7](#)

Cytogenetics: 4q22

Gene Summary: Transcription factor involved in unfolded protein response (UPR). 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 chondrogenesis by activating the transcription of SEC23A, which promotes the transport and secretion of cartilage matrix proteins, and possibly that of ER biogenesis-related genes. In a neuroblastoma cell line, protects cells from ER stress-induced death. In vitro activates transcription of target genes via direct binding to the CRE site.
[UniProtKB/Swiss-Prot Function]