

Product datasheet for **RR208758**

Creb3l2 (NM_001012188) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR208758 representing NM_001012188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGCTGGAGAGCGGGAGCAGAGTGTCTCTGCAGTGGACCGCAAGCTGAGCGAGCTGTCAAGC
 CCGGAGAGACTGAGGCTCTCATGTACCACAGCACTTCTCAGAGCTCCTGGATGAGTTTTCCAGAACGT
 CTTGGGTGAGCTCCTGAATGACCCCTTCTCTCAGAGAAGAGCGTGTCCATGGAGGTGGAGCCATCTCCC
 ACATCACCAGCACCTCTCATCCAGGCTGAACACAGCTACTCTCTGAGCGAGGAGCCCCGGGCTCAGTCAC
 CATTACCACAGTGGCTGCCAGCGATGGCTTCAATGACGAGGAGGTGGAGAGTGAAGTGGTACCTGTC
 TACAGAGTTTCTTACGCTACCATCAAGACAGAGCCATCACAGAGGAGCAGCCCCAGGACTTGTCCCT
 TCTGTCACTCTGACCATCACAGCCATTTCCACTCCGTTTGAAGAAAGAGTCCCCTCTGGATATGAGTG
 CTGGGGGAGACTCCTCATGCCAGACACTTATTCTAAGATTAAGCTGGAGCCGCATGAAGTGGATCAATT
 CTTAAACTTCTCTCCGAAAGAGGCTCCGTGGACCAGCTGCATTACCACCCACACCACCCAGTAGTCAC
 AGCAGTACTCTGAGGGCAGCTTGGACCCCAACCCACGTCTGCATCCCTTACGCCTCTCTCAGGCCACA
 GCCCCGGCAGAGCCATGCCCCGGGGCCCTCTGCCTTGTCCACATCTCCTCTCTCACAGCTCCACATAA
 ACTGCAGGGGTCGGGCCACTGGTCTGACAGAGGAAGAGAAGAGGACCTTGATTGCCGAGGGCTATCCC
 ATTCCAACCAAATGCCCTGACAAAATCTGAGGAGAAGGCCCTGAAGAAAATCCGGAGAAAAGATCAAGA
 ATAAGATTTCTGCCAAGAAAGCAGGAGGAAGAAGAAAGAATACATGGATAGCTTGGAGAAAAAGTGG
 GTCTTGTCAACCGAGAAGTGGAGCTTCGGAAGAAGTGGAGGTGCTGGAGAACCAACAGGACTCTC
 CTTAGCAACTTCAAGAGCTTCAAGCTTGGTGTGGGGAAGGTCTCTCGAACCTGCAAGTTAGCTGGTA
 CACAGACTGGCACCTGCCTCATGGTCTGCTTGTGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGG
 CTACGGGCTGTATCCTTCTGCCACCAAGATGGCTCTGCCAGCCAGCACCCCTGTCCGAGCCATACACA
 GCCTCCGTGGTGGATCCAGGAACCTGCTAATCTATGAGGAACACTCTTCCCTGGAAGAGTCGTCACGCC
 CAGCCTCGGCTGGAGAGCTCGGGGGCTGGGACAGAGGCTCCTCTGCTCAGGGGCTCGTCCGGGTGGA
 GGCCCTGCCCGAGGTGGATCTTCCCAATTTATTCTCAAGGAGACCAGCTTGGAGAAGTCAAGTCTG
 TTGGAGCTTCAAGCAGCCTGGTCAAGCAGCAACTAGAGGGGAACGAAACACTCAAGTTGTAGAAGTGG
 AGAGGAGAGTGAACGCCACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208758 representing NM_001012188
 Red=Cloning site Green=Tags(s)

MEVLESGEQSVLQWDRKLSLSEPGETEALMYHTHSELLDEF SQNVLGQLLNDPFLSEKSVSMEVEPSP
 TSPAPLIQAEHSYSLSEEPRAQSPFTHVAASDGFNDEEVESEKWYLSTEFPSATIKTEPIITEEQPPGLVP
 SVTLTITAISTPFKEEESPLDMSAGGDSSCQTLIPKIKLEPHEVDQFLNFSPEASVDQLHLPPTPPSSH
 SSDSEGLSPNPRLHPFSLSQAHSPGRAMPRGPSALSTSPLLTAPHKLGSGPLVLTTEEKRTLIAEGYP
 IPTKLPLTKSEEKALKKIRRKIKNKISAQESRRKKKEYMDSLEKKVESCSTENLELRKKVEVLENTNRTL
 LQQLQKLQTLVMGKVSRTCKLAGTQTGTCMLVVVLCFAVAFGSLFQGYGLYPSATKMALPSQHPLSEPYT
 ASVVRSRNLLIYEEHSSLEESSPASAGELGGWDRGSSLLRASSGLEALPEVDLPHFIISKETSLEKSVL
 LELQQLVSSKLEGNELTKVVELERRVNATF

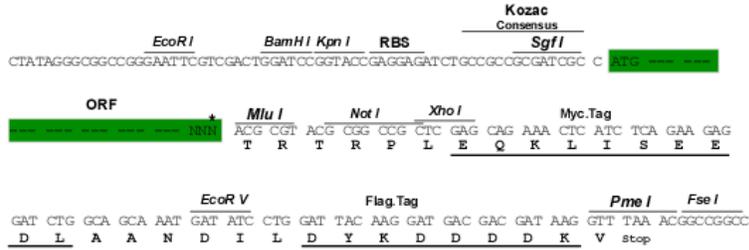
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

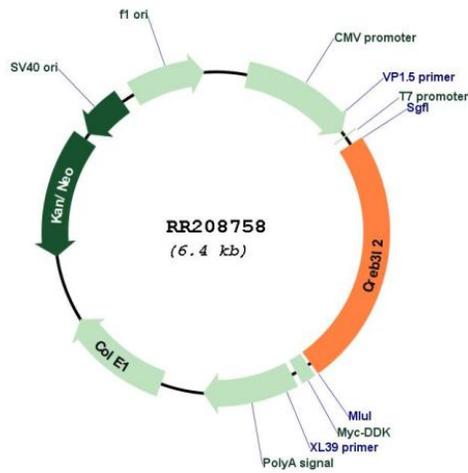
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001012188
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:	<ol style="list-style-type: none">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
MW:	57.4 kDa
Gene Summary:	<p>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/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 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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>