

## Product datasheet for **RR209683**

### Creb3l3 (NM\_001012115) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Creb3l3 (NM_001012115) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Creb3l3
Synonyms:	MGC109013
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR209683 representing NM\_001012115  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATGGGGACATATCGACGGGAAAGATGGCGTCCCCTGCCTGTGCCATGGCTCCCTTAGATAGCATGG  
 AAGTCCTTGACCTCCTGTTTCGACGGGCAGGATGGCATCCTGAGAAATGTAGACCTGGCTGAGAGCTGGAT  
 CCTCACCAGAGAGGAACAGAAAGTTCTACCAAATTCGACTCTGATGAATTCCTAAATTCATCCTGGGA  
 CCTGGAGACTCTGACCCAGCTCCCAATATGGTCCCAGCTGACAGTGACAGCGGCATCTCTGAGGATC  
 TACCTTCCGATCCAGGACACCCCTCCTGGTAGTGGACCTGGATCCGCTAACGTTGCAGCCAGGTGTCA  
 TCCAAGCAAGCAAGGCGAGGGGCCCTGCCCTCTACCTCTAGCACAGCATGCCCTGAGCCTCCAAGG  
 ACACAAGTCCATGAGTCTCGGTGGCCATTGACCTGGACATGTGGAGCACAGACACCTGTACCCGGAGG  
 AGCAGGCTGGCTGCCCTCCCGTTCAACCTACTGTGAAGGAATTGCTGCTGTCTGGTGGTGGCGGGGA  
 CTTGCAACAGCATCCCTGGCCGCTCCAGCTGCTGGGACCTGGGAGTGGGCACTGCCAGGAGCTGGTA  
 CTGACAGAGGATGAGAAGAAGTTGCTGGCTAAAGAGGGGGTGACCTTCCACCCAGCTGCCCTACCA  
 AGTATGAGGAACGGGTGTTGAAAAAATCCGCAGAAAGATCCGGAACAAACAGTCAGCTCAAGAAAGCAG  
 AAAGAAGAAAAAGAATACATCGATGGTTTGGAGAACCGGATGTCAGCGTGTACCGCCAGAACAGGAG  
 CTGACAGGGAAGGCTTTCGACTTAGAAAAGCAAAATTTGTCTTCTGGAGCAGCTCAAACCTGCAGG  
 CTCTTGTGGTCCAGTCAACCAGCAAGCCTGCCATGCAGGCACCTGCATAGCGGTCTTCTGCTGTCTT  
 CGTCTGATATCCTCCCTTCCATCAGCCCTTCACTGCCAACAAAGTCGACAGCCCTGGTGACTTCATT  
 CCAGTCGAGTGTTCAGAACCCGCAACCATGCTGCATCCCGCGTGGCTCCCGACGTCAACCCAG  
 GACCCGAGGTCCAGGACCCACAAAGGCTCTTCTGGCGCCTCAGTGCAGACTGGGGAAATTTCTAGA  
 AATCCAATGTTGGATGACCCAACAGAAGAGTTAGACAACACCACCTGGTGTGGCCAATCCACAGAG  
 GACCTGGGACGGCCACTCTGCTGGACTGGGTGGCTTCAAGCCACTGTTGGCCAGATGGGGCTGGAGA  
 TACCAGGGGAGGAGATATGGCTGTCTGGGTACCGAGGTGGCTCAGGGTCCGTGTGGTGAAGATGCTTT  
 GGGGGTGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209683 representing NM\_001012115  
 Red=Cloning site Green=Tags(s)

MDGDI STGKMASPACAMAPLDSMEVLDLLFDGQDGILRNVDLAESWILTREEQKVL PNSDSDEF LNSILG  
 PGSDSPSSIWSPADSDSGISEDLPDSQDTPPGSGPGSANVAARCHPSKQEGPCPSYLPSTACPEPPR  
 TQVHESSVAIDLDMWSTDTLYPEEQAGSPSRFNLTVKELLLSGGGDLQHQHPLAASQLLPGPSGHCQELV  
 LTEDKLLLAKEGVTLPTQLPLTKYEERVLKIRRKIRNKQSAQESRKKKKEYIDGLENRMSACTAQNQE  
 LQRKVLHLEKQNL SLLEQLKHLQALVVQSTSKPAHAGTCIAVLLL SFVLIILPSISPF TANKVDSPGDFI  
 PVRVFSRTLHNHAASRVAPDVTPGPEVPGPHKGS SGLSADWGNFLEIPMLDDPTEELDNTTLVLANSTE  
 DLGRATLLDWVASEPLLGMGLEIPGEEIWL SWVPRWLRVRVVDALGVL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

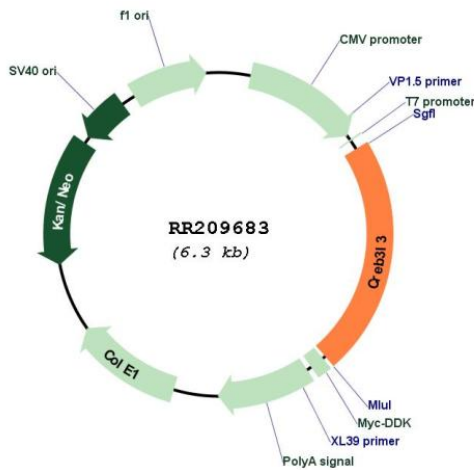
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001012115

ORF Size:

1410 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001012115.1, NP_001012115.1</u>
<b>RefSeq Size:</b>	1956 bp
<b>RefSeq ORF:</b>	1413 bp
<b>Locus ID:</b>	314638
<b>UniProt ID:</b>	<u>Q5FVM5</u>
<b>Cytogenetics:</b>	7q11
<b>MW:</b>	50.9 kDa
<b>Gene Summary:</b>	Transcription factor that may act during endoplasmic reticulum stress by activating unfolded protein response target genes. Activated in response to cAMP stimulation. Binds the cAMP response element (CRE). Activates transcription through box-B element and CRE. Seems to function synergistically with ATF6. In acute inflammatory response, may activate expression of acute phase response (APR) genes (By similarity). May be involved in growth suppression. [UniProtKB/Swiss-Prot Function]