

## Product datasheet for RC202115

### CREB1 (NM\_134442) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CREB1 (NM_134442) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CREB1
Synonyms:	CREB; CREB-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202115 representing NM_134442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCATGGAATCTGGAGCCGAGAACCAGCAGAGTGGAGATGCAGCTGTAAACAGAAGCTGAAAACCAAC  
AAATGACAGTTCAAGCCAGCCACAGATTGCCACATTAGCCAGGTATCTATGCCAGCAGCTCATGCAAC  
ATCATCTGCTCCCACCGTAAGTCTAGTACAGCTGCCCAATGGGCAGACAGTTCAGTCCATGGAGTCATT  
CAGGCGGCCAGCCATCAGTTATTCAGTCTCCACAAGTCCAAACAGTTCAGTCTTCTGTAAAGACTTAA  
AAAGACTTTTCTCCGGAACACAGATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCAGTGGATAG  
TGTAAGTATTCCAAAAGCGAAGGAAATTTTCAAGGAGGCTTCTACAGGAAAATTTTGAATGAC  
TTATCTTCTGATGCACCAGGAGTGCCAAGGATTGAAGAAGAGAAGTCTGAAGAGGAGACTTCAGCACCTG  
CCATCACCAGTGTAAACGGTGCCAATCCAAATTTACCAAATAGCAGTGGACAGTATATTGCCATTACCCA  
GGGAGGAGCAATACAGCTGGCTAACAATGGTACCGATGGGTACAGGCTGCAAACATTAACCATGACC  
AATGCAGCAGCCACTCAGCCGGTACTACATTCTACAGTATGCACAGACCAGTATGGACAGCAGATCT  
TAGTGCCAGCAACCAAGTTGTTGTTCAAGCTGCCTCTGGAGACGTACAAACATACCAGATTGCGACAGC  
ACCCACTAGCACTATTGCCCTGGAGTTGTTATGGCATCTCCCCAGCACTTCTACACAGCCTGCTGAA  
GAAGCAGCACGAAAGAGAGAGGTCGTCTAATGAAGAACAGGGAAGCAGCTCGAGAGTGTGTAAGAAGA  
AGAAAGAATATGTGAAATGTTTAGAAAACAGAGTGCCAGTGCTTGAAAATCAAACAAGACATTGATTGA  
GGAGCTAAAAGCACTTAAGGACCTTTACTGCCACAAATCAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202115 representing NM\_134442  
Red=Cloning site Green=Tags(s)

MTMESGAENQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMCAAHATSSAPTVTLVQLPNGQTVQVHGVI  
 QAAQPSVIQSPQVQTVQSSCKDLKRLFSGTQISTIAESEDSEQSVDSVDSQKRREILSRRPSYRKILND  
 LSSDAPGVPRIIEEEKSEEETSAPAITTVTPPIYQTSSGQYIAITQGGAIQLANNGTDGVQGLQTLTMT  
 NAAATQPGTTILQYAQTDDGQQILVPSNQVVVQAASGDVQTYQIRTAPTSTIAPGVVMASSPALPTQPAE  
 EAARKREVRLMKNREAARECRRKKKEYVKLENRVAVLENQNKTLIEELKALKDLYCHKSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_134442

**ORF Size:** 1023 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\\_134442.5](#)

**RefSeq Size:** 3006 bp

**RefSeq ORF:** 1026 bp

**Locus ID:** 1385

**UniProt ID:** [P16220](#)

**Cytogenetics:** 2q33.3

**Domains:** pKID, BRLZ

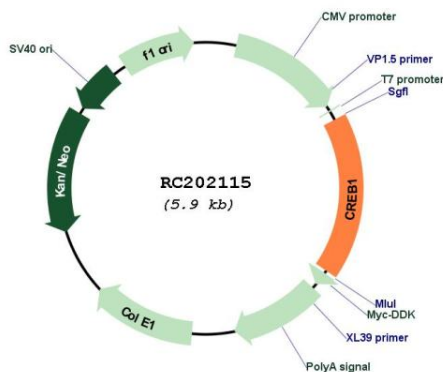
**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Antigen processing and presentation, Huntington's disease, Melanogenesis, Prostate cancer

**MW:** 36.5 kDa

**Gene Summary:** This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

### Product images:



Circular map for RC202115