

## Product datasheet for **RC218321**

### **CREB5 (NM\_182899) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CREB5 (NM_182899) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CREB5
Synonyms:	CRE-BPA; CREB-5; CREBPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC218321 representing NM\_182899  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATTATAGGCACAAACATGAAATGACTTTGAAGTTTCCTTCAATAAAAAACAGACAATATGTTATCAG  
 ATCAAACCTCCGACCCCAACGAGATTCTGAAGAACTGCGAGGAGGTGGGCTCTTCAGCGAGCTGGACTG  
 CTCCTTGAGCAGGATTCAGGAAGGCTCAGGAAGAGGAGCAGCAAGCGGAATATCTCGATGCATAAT  
 GCAGTTGGTGGGGCCATGACGGGGCCGGAACCTACCAGCTTAGCAGCGCTCGGCTGCCAACCATGACA  
 CCAACGTTGTGATTAGCAAGCCATGCCGTCGCTCAGTCCAGCTCTGTCACTCAGGCACCTCCAC  
 CAACCGCCAGATCGGGCTGTCCAGGCTCTCTATCTTCTCTGCTACATCTCCACAACAGACAGAGACAG  
 CCCATGCCAGCTCCATGCCTGGGACCTGCCAACCCCTACAATGCCAGGATCTCCGCCGCTTTGATGC  
 CAATGGAGCGACAAATGTCAGTGAACCTCAGCATCATGGGGATGCAAGGTCCAAATCTCAGCAACCCCTG  
 TGCTTCTCCCAGTCCAGCCAATGCATTCAGAAGCCAAAATGAGTTGAAGGCTGCATTGACTCACCAC  
 CCTGCTGCCATGTCAAATGGGAACATGAACACCATGGGACACATGATGGAGATGATGGGCTCCCGGCAAG  
 ACCAGACGCCACACCATCACATGCACTCGACCCCGCATCAGCACCAGACACTGCCACCCCATCACCTTA  
 CCCACACCAGCACCAGCACCAGCACACCATCCTCACCTCAACCCCATCACCAGCAGAACCATCCACAT  
 CACCACTCCCATTCCCACCTTATGCACACCCAGCACATCACCAGACCTCGCCACATCCGCCCTGCACA  
 CCGCAACCAAGCACAGGTTTACCAGCAACACAACAGATGCAGCCAACCCAGACAATACAGCCACCCCA  
 GCCACAGGGGGCGCCGGCAAGGGTGGTAGACGAGGATCCGGACGAGAGGGCGGGGAAATTTCTGGAA  
 CGGAACCGGGCAGCTGCCACCCGCTGCAGACAGAAGAGGAAGTCTGGGTGATGTCATTGAAAAAGAAAG  
 CAGAAGAACTACCCAGACAAACATGCAGCTTCAAGATGAAGTGTCTATGTTGAAAAATGAGGTGGCCCA  
 GCTGAAACAGTTGTTGTTAACACATAAAGACTGCCCAATACAGCCATGCAGAAAGAAATCACAAGGATAT  
 CTAAGTCCAGAGAGTAGCCCTCCTGCTAGTCTGTCCCAGCTTGCTCCCAGCAACAGTCAATCCAGCATA  
 ATACCATCACTACTTCTCATCGGTACGCGAGGTGGTAGGAAGCTCCACCTCAGCCAGCTCACCACTCA  
 CAGAACAGACCTGAATCCGATTCTT

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218321 representing NM\_182899  
 Red=Cloning site Green=Tags(s)

MIHRHKHEMTLKFPSIKTDNMLSDQTPTRFLKNCEEVGLFSELDCSLEHEFRKAQEESSKRNISMHN  
 AVGGAMTGPGTHQLSSARLPNHDTNVVIQQAMPSPQSSSVITQAPSTNRQIGPVPGLSSLLHLHNRQRQ  
 PMPASMPGTLNPPTMPGSSAVLMPMERQMSVNSSIMGMQGNLSNPCASPVQVPMHSEAKMRLKAALTHH  
 PAAMSGNMNTMGHMEMMGSRDQTPHHHMHSHPHQHTLPPHPYPHQHHPAHHHPQPHHQNHHPH  
 HHSLSHLHAHPAHHQTSPPPLHTGNQAQVSPATQQMQPTQTIQPPQPTGGRRRRVDEDPERRRKFLE  
 RNRAAATRCRQKRKVWVMSLEKKAEEELTQTNMQLQNEVSMKNEVAQLKQLLLTHKDCPITAMQKESQGY  
 LSPESPASPVPACSQQVIQHNTITSSSVSEVVGSSLSQLTTHRTDLNPIL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8062\\_d05.zip](https://cdn.origene.com/chromatograms/mk8062_d05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**ACCN:** NM\_182899

**ORF Size:** 1425 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\\_182899.4](#)
**RefSeq Size:** 8188 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 9586

**UniProt ID:** [Q02930](#)
**Cytogenetics:** 7p15.1

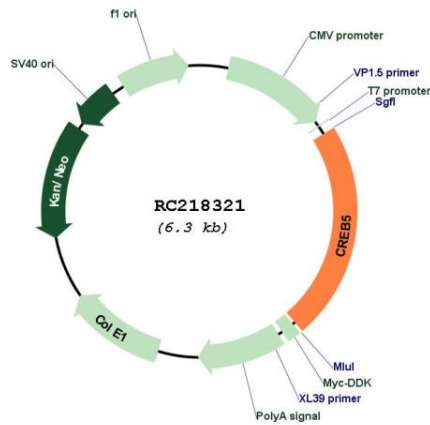
**Protein Families:** Transcription Factors

**Protein Pathways:** Huntington's disease, Prostate cancer

**MW:** 52.9 kDa

**Gene Summary:** The product of this gene belongs to the CRE (cAMP response element)-binding protein family. Members of this family contain zinc-finger and bZIP DNA-binding domains. The encoded protein specifically binds to CRE as a homodimer or a heterodimer with c-Jun or CRE-BP1, and functions as a CRE-dependent trans-activator. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC218321