

## Product datasheet for **RC210636**

### CREM (NM\_182769) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CREM (NM_182769) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CREM
Synonyms:	CREM-2; hCREM-2; ICER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210636 representing NM_182769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAGAATCAGAAGGTGAATTGATTCTCATAAACGTA  
GAGAAATCCTTTCACGAAGACCCCTTTATAGGAAAATACTGAATGAACTGCCTCTGATGTGCCTGGTGT  
TCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCTAGTATTGCTACCATGGCAGTACCA  
ACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGTGGAACAATCCAGATTTCTA  
ACCCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGAGCTCCTCCACCAGG  
TGCTACAATTGTACAGTACGCAGCACAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCAGGCAGCCAG  
GTTGTTGTTCAAGCTGCCACTGGTGACATGCCAATTACCAGATCCGAGCTCCTACTGCTGCTTTGCCAC  
AGGGAGTGGTGTGGCTGCATCGCCGGAAGTTTGCACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACG  
CAAACGAGAGCTGAGGCTAATGAAAAACAGGGAAGCTGCCAAAGAATGTCGACGTCGAAAGAAAATAT  
GTAAAATGTCTGGAGAGCCGAGTTGCAGTGTGGAAGTCCAGAACAAGAAGCTTATAGAGGAACTTGAAA  
CCTTGAAAGACATTTGTTCTCCAAAACAGATTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC210636 representing NM\_182769  
Red=Cloning site Green=Tags(s)

MVAIIAETDESAESEGVIDSHKRREILSRPSPYRKILNELSSDVPGVPKIEEERSEEEGTPPSIATMAVP  
 TSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQFFVPGSQ  
 VVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAAEEATRKRELRMLKNREAAKECRRRKEY  
 VKCLESRVAVLEVQNKKLEEELETLKDICS PKTDY

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\_182769

**ORF Size:** 735 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\\_182769.3](#)

**RefSeq Size:** 2014 bp

**RefSeq ORF:** 738 bp

**Locus ID:** 1390

**UniProt ID:** [Q03060](#)

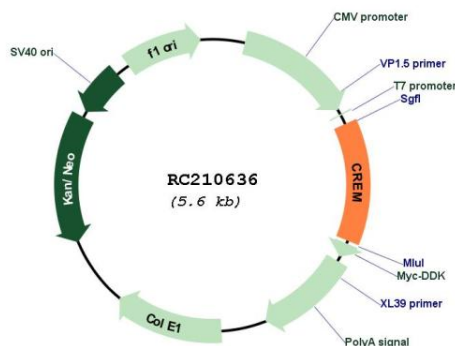
**Cytogenetics:** 10p11.21

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

**MW:** 26.5 kDa

**Gene Summary:** This gene encodes a bZIP transcription factor that binds to the cAMP responsive element found in many viral and cellular promoters. It is an important component of cAMP-mediated signal transduction during the spermatogenic cycle, as well as other complex processes. Alternative promoter and translation initiation site usage allows this gene to exert spatial and temporal specificity to cAMP responsiveness. Multiple alternatively spliced transcript variants encoding several different isoforms have been found for this gene, with some of them functioning as activators and some as repressors of transcription. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC210636