

Product datasheet for **RC215729**

CREM (NM_182721) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CREM (NM_182721) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CREM
Synonyms: CREM-2; hCREM-2; ICER
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC215729 representing NM_182721
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACAGAACTCAGGAGTTGTCTGGCCAGCTTAGTGCTGCCACTGGTGACATGCCAACTTACCAGATCC
GAGCTCCTACTGCTGCTTTGCCACAGGGAGTGGTATGGCTGCATCGCCGGAAGTTTGCACAGTCCCA
GCAGCTGGCAGAAGAAGCAACACGCAAACGAGAGCTGAGGCTAATGAAAAACAGGAAGCTGCCCGGAG
TGTCGCAGGAAGAAGAAAGAATATGTCAAATGTCTTGAAAATCGTGTGGCTGTGCTTAAAAACAAAACA
AGACTCTCATTGAGGAACAAGGCCCTCAAAGATCTTTATTGCCATAAAGTAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215729 representing NM_182721
Red=Cloning site Green=Tags(s)

MNRTQELSGQLSAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATRKRELRMLKNREAARE
CRRKKKEYVKLENRVAVLENQNKTLIEELKALKDLYCHKVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

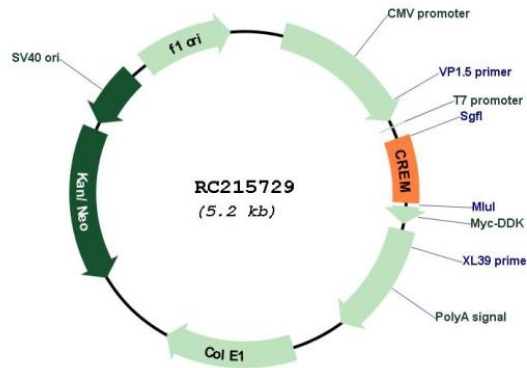


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_182721

ORF Size:

336 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_182721.2 |
| RefSeq Size: | 2065 bp |
| RefSeq ORF: | 339 bp |
| Locus ID: | 1390 |
| UniProt ID: | Q03060 |
| Cytogenetics: | 10p11.21 |
| Protein Families: | Druggable Genome, Transcription Factors |
| MW: | 12.5 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] |