

Product datasheet for **SC311180**

CREM (NM_181571) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CREM (NM_181571) Human Untagged Clone
Tag:	Tag Free
Symbol:	CREM
Synonyms:	CREM-2; hCREM-2; ICER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311180 representing NM_181571. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCAAATGTGCAAGGAAAAATATATTAAGACAAATCCAAGACAAATGACCATGAAACAGTTGAA
TCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCATGTGCAGACTCAGACT
GGCCAAAATCAATCCCTGCTTTAGCTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAGAATCA
GAAGGTGTAATTGATTCTATAAACGTAGAGAAATCCTTTACGAAGACCCTCTTATAGGAAAATACTG
AATGAAGTGTCTCTGATGTGCCTGGTGTCCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACA
CCACCTAGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGCAATACATTGCT
ATAGCCCAAGGTGGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTA
ACAATGACAAATTCAGGAGCTCCTCCACAGGTGCTACAATTGTACAGTACGCAGCACAATCAGCTGAT
GGCACACAGCAGTTCTTTGTCCCAGGCAGCCAGGTTGTTGTTCAAGCTGCCACTGGTGACATGCCAACT
TACCAGATCCGAGCTCCTACTGTGCTTTGCCACAGGGAGTGGTGTGCTGCATCGCCCGGAAGTTTG
CACAGTCCCAGCAGCTGGCAGAAGAAGCAACACGCAACGAGAGCTGAGGCTAATGAAAAACAGGGAA
GCTGCCAAGAATGTCGACGTCGAAAGAAAGAATATGTAAATGTCTGGAGAGCCGAGTTGCAGTGCTG
GAAGTCCAGAACAAGAAGCTTATAGAGGAACTTGAACCTTGAAGACATTTGTTCTCCAAAACAGAT
TACTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_181571
Insert Size:	903 bp



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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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_181571.2
RefSeq Size:	2228 bp
RefSeq ORF:	903 bp
Locus ID:	1390
UniProt ID:	Q03060
Cytogenetics:	10p11.21
Protein Families:	Druggable Genome, Transcription Factors
MW:	32.5 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 spermatogenetic 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]

Transcript Variant: This variant (1) encodes the longest isoform (1). This isoform represents an activator tau2 isoform. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.