

## Product datasheet for RN215848

### Crem (NM\_001271245) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Crem (NM_001271245) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Crem
Synonyms:	Icer
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215848 representing NM_001271245 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTATCCCCATTTTACAGATGAGGAGACTGACCTTGCCCCAAGTCACATGGCTGCTGCCACAGGTG  
ACATGCCAACTTACCAGATCCGAGCTCCTACTGCTTTGCCACAAGGTGTGGTGATGGCTGCCTCACC  
AGGGAGTCTGCACAGTCCCCAGCAACTAGCAGAAGAAGCAACTCGAAAGCGGGAGCTGAGGCTGATGAAA  
AACAGGGAAGCTGCTAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCTGGAGAGCCGAGTCG  
CAGTGCTGGAAGTTCAGAACAGAAGCTTATAGAGGAGCTTGAAACCTTGAAAGACATTTGCTCTCCCAA  
AACAGAT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001271245
Insert Size:	360 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001271245.1, NP_001258174.1</u>
<b>RefSeq Size:</b>	3051 bp
<b>RefSeq ORF:</b>	360 bp
<b>Locus ID:</b>	25620
<b>Cytogenetics:</b>	17q12.1
<b>Gene Summary:</b>	<p>Transcriptional regulator that binds the cAMP response element (CRE), a sequence present in many viral and cellular promoters. Isoforms are either transcriptional activators or repressors. Isoform Delta is an activator. Plays a role in spermatogenesis and is involved in spermatid maturation. Binding of isoform Tau (activator) to CRE is increased by CREB3L4. The CREM isoform Tau-CREB3L4 heterodimer functions through CRE and may recruit HIRA to CRE to regulate histone exchange (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (6) differs in both UTR's and the coding region but maintains the reading frame, compared to variant 3. This results in a protein (isoform 6) that is shorter at both the N- and C-termini, compared to isoform 3. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>