

## Product datasheet for **RR215848**

### Crem (NM\_001271245) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Crem (NM\_001271245) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Crem  
**Synonyms:** Icer  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215848 representing NM\_001271245  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGTATCCCCATTTACAGATGAGGAGACTGACCTTGCCCCAAGTCACATGGCTGCTGCCACAGGTG  
ACATGCCAACTTACCAGATCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTATGGCTGCCTCACC  
AGGGAGTCTGCACAGTCCCAGCAACTAGCAGAAGAAGCAACTCGAAAGCGGGAGCTGAGGCTGATGAAA  
AACAGGGAAGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCTGGAGAGCCGAGTCG  
CAGTGTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTAAAACCTTGAAAGACATTTGCTCTCCCAA  
AACAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215848 representing NM\_001271245  
Red=Cloning site Green=Tags(s)

MMYPHFTDEETDLAPSHMAAATGDMPTYQIRAPTTALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMK  
NREAAKECRRRKEYVKCLESRAVAVLEVQNKLLIEELETLDKICSPKTD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

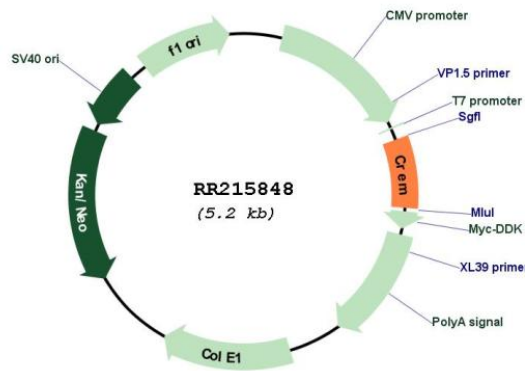


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Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001271245

ORF Size:

357 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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><a href="#">NM_001271245.1</a></u> , <u><a href="#">NP_001258174.1</a></u>
<b>RefSeq Size:</b>	3051 bp
<b>RefSeq ORF:</b>	360 bp
<b>Locus ID:</b>	25620
<b>Cytogenetics:</b>	17q12.1
<b>MW:</b>	13.5 kDa
<b>Gene Summary:</b>	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]