

## Product datasheet for **RR215789**

### Crem (NM\_001271248) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Crem (NM\_001271248) 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:** >RR215789 representing NM\_001271248  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

**ATGCCA**CTTACCAGATCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTATGGCTGCCTACCAG  
GGAGTCTGCACAGTCCCCAGCAACTAGCAGAAGAAGCAACTCGAAAGCGGGAGCTGAGGCTGATGAAAA  
CAGGGAAGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCTGGAGAGCCGAGTCGCA  
GTGCTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTGAAACCTTGAAAGACATTTGCTCCCAAAA  
CAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215789 representing NM\_001271248  
Red=Cloning site Green=Tags(s)

MPTYQIRAPTTALPQGVVMAASPGSLHSPQQLAEEATRKRELRMLKNREAAKECRRRKEYVKCLESRVA  
VLEVQNKKLIEELETLDKIDICSPKTD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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<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_001271248.1</a></u> , <u><a href="#">NP_001258177.1</a></u>
<b>RefSeq Size:</b>	3072 bp
<b>RefSeq ORF:</b>	288 bp
<b>Locus ID:</b>	25620
<b>Cytogenetics:</b>	17q12.1
<b>MW:</b>	10.8 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]