

Product datasheet for **RR215834**

Crem (NM_001271102) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crem (NM_001271102) 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: >RR215834 representing NM_001271102
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAAAAGCCCAACATGGCTGTAAGTGGAGATGAACTGCTGCCACAGGTGACATGCCAATTACCAGA
TCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTGATGGCTGCCTCACCAGGGAGTCTGCACAGTCC
CCAGCAACTAGCAGAAGAAGCAACTCGAAAGCGGGAGCTGAGGCTGATGAAAACAGGGAAGCTGCCCGG
GAGTGTGCGCAGGAAGAAGAAGAATATGTCAAATGCTTGAAAATCGTGTGGCTGTGCTTAAAAATCAA
ACAAGACCTCATTGAGGAAGCTCAAGGCCTCAAAGACCTTTATTGCCATAAAGCAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215834 representing NM_001271102
Red=Cloning site Green=Tags(s)

MQKPNMAVTGDETAATGDMPYQIRAPTTALPQGVMAASPGSLHSPQQLAEEATRKRELRMLKNREAR
ECRRKKKEYVKLENRVAVLENQNKTLIEELKALKDLYCHKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

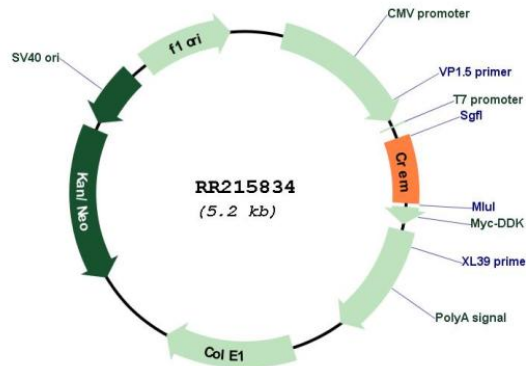


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001271102

ORF Size: 339 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:	<u>NM_001271102.1</u> , <u>NP_001258031.1</u>
RefSeq Size:	3365 bp
RefSeq ORF:	342 bp
Locus ID:	25620
Cytogenetics:	17q12.1
MW:	12.7 kDa
Gene Summary:	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]