

Product datasheet for RN216467

Crem (NM_001271101) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crem (NM_001271101) Rat Untagged Clone
Tag: Tag Free
Symbol: Crem
Synonyms: Icer
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216467 representing NM_001271101
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAAATGTGGCAGGAAAAAGTATATGAGGACAAATGTAAGGCAAATGACCATGGAACAGTTGAAT
 CACAGCAGGATCGAAGTGAACACATTCTGTGGCAGAGCATAGCTCTGCTCATATGCAGACTGGCCAAAT
 TTCTGTCCCTACTCTAGCTCAGTTTCTGTAGCTGGATCAGGCACTGGAAGAGGCTCCCCAGCTGTGACT
 CTAGTACAGTTACCTTCAGGCCAACTGTACAGGTCCAGGGAGTAATTCAGACACCACATCCATCGGTTA
 TTCAGTACCACAAATACAACTGTTTCAGGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGA
 AGTAATCGATTCCGATAAACGTAGAGAAATTTTTCACGAAGACCCTCATATAGAAAAATACTGAATGAA
 CTTTCTCTGTATGTGCCTGGTATCCCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGGACACCACCTA
 ACATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCA
 AGGTGGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTCAGGGACTCCAGGCATTAACAATGACA
 AATTCAGGAGCTCCTCCGCCAGGTGCTACAATTGTACAGTATGCAGCACAATCAGCCGATGGCACACAGC
 AGTTCTTTGTCCCAGGCAGCCAGTTGTTGTTCAAGATGAGGAGACTGACCTTGCCACAAGGTGTGGTG
 TGCTGCCACAGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTG
 ATGGCTGCCTCACCAGGGAGTCTGCACAGTCCCCAGCAACTAGCAGAAAGCAACTCGAAAGCGGGAGC
 TGAGGCTGATGAAAAACAGGGAAGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCT
 GGAGAGCCGAGTCGAGTGTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTGAAACCTTGAAAGAC
 ATTTGCTCTCCCAAAACAGAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271101



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Insert Size:	1074 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001271101.1, NP_001258030.1</u>
RefSeq Size:	4015 bp
RefSeq ORF:	1074 bp
Locus ID:	25620
UniProt ID:	<u>Q03061</u>
Cytogenetics:	17q12.1
Gene Summary:	<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 (4) uses an alternate splice site in the 3' coding region, compared to variant 3. This results in protein (isoform 4) that is the same length but has a distinct C-terminus, compared to isoform 3.</p>