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Product datasheet for RR216467

Crem (NM_001271101) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crem (NM_001271101) 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:	>RR216467 representing NM_001271101 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGCAAATGTGGCAGGAAAAAGTATATGAGGACAAATGTAAGGCAAATGACCATGGAAACAGTTGAAT CACAGCAGGATCGAAGTGTAACACATTCTGTGGCAGAGCATAGCTCTGCTCATATGCAGACTGGCCAAAT TTCTGTCCCTACTCTAGCTCAGGTTTCTGTAGCTGGATCAGGCACTGGAAGAGGCTCCCCAGCTGTGACT CTAGTACAGTTACCTTCAGGCCAAACTGTACAGGTCCAGGGAGTAATTCAGACACCACATCCATCGGTTA TTCAGTCACCACAAATACAAACTGTTCAGGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGA AGTAATCGATTCGCATAAACGTAGAGAAATTCTTTCACGAAGACCCTCATATAGAAAAATACTGAATGAA CTTTCCTCTGATGTGCCTGGTATTCCCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGGACACCACCTA ACATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCA AGGTGGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTCAGGGACTCCAGGCATTAACAATGACA AATTCAGGAGCTCCTCCGCCAGGTGCTACAATTGTACAGTATGCAGCACAATCAGCCGATGGCACACAGC AGTTCTTTGTCCCAGGCAGCCAGGTTGTTGTTCAAGATGAGGAGACTGACCTTGCCCCAAGTCACATGGC TGCTGCCACAGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTG ATGGCTGCCTCACCAGGGAGTCTGCACAGTCCCCAGCAACTAGCAGAAGAAGCAACTCGAAAGCGGGAGC TGAGGCTGATGAAAAACAGGGAAGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCT GGAGAGCCGAGTCGCAGTGCTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTGAAACCTTGAAAGAC ATTTGCTCTCCCAAAACAGAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

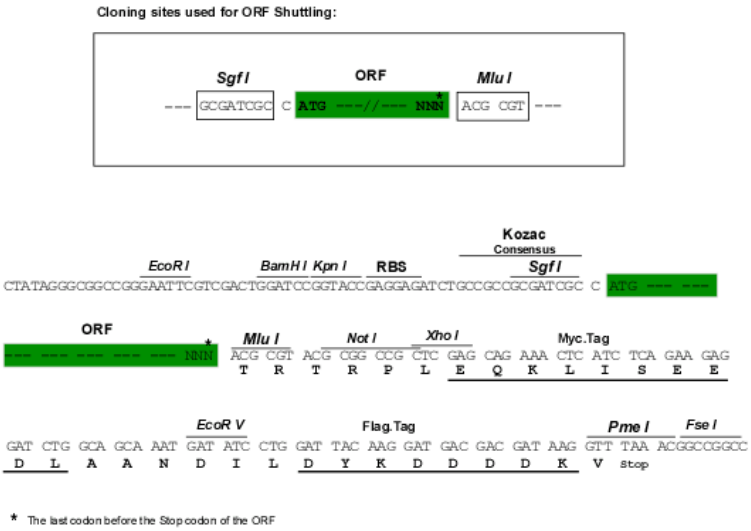
>RR216467 representing NM_001271101
Red=Cloning site Green=Tags(s)

MSKCGRKKYMRTNVRQMTMETVESQQDRSVTHSVAEHSSAHMQTGQISVPTLAQVSVAGSGTGRGSPAVT
LVQLPSGQTVQVQGVIQTPHPSVIQSPQIQTVQVATIAETDDSADSEVIDSHKRREILSRRPSYRKILNE
LSSDVPGIPKIEEEKSEEEGTPPNIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALTMT
NSGAPPPGATIVQYAAQSADGTQQFFVPGSQVVVQDEETDLAPSHMAAATGDMPTYQIRAPTTALPQGVV
MAASPGSLHSPQQLAEEATRKRELRLMKNREAAKECRRRKKEYVKCLESRVAVLEVQNKKLIEELETLKD
ICSPKTD

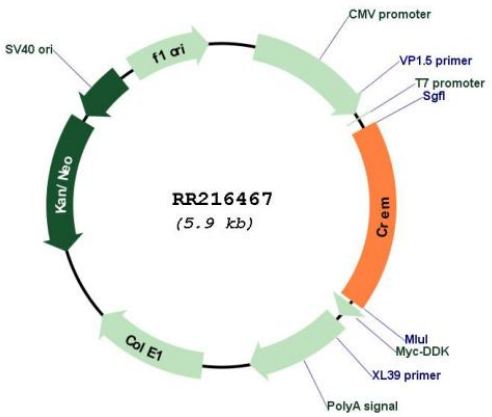
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271101

ORF Size:	1071 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:	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:	NM_001271101.1, NP_001258030.1
RefSeq Size:	4015 bp
RefSeq ORF:	1074 bp
Locus ID:	25620
UniProt ID:	Q03061
Cytogenetics:	17q12.1
MW:	38.5 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]