

Product datasheet for MR222544

Crem (NM_001110857) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Crem (NM_001110857) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Crem
 Synonyms: IC; ICER; ICERI
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR222544 representing NM_001110857
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAGCAAATGTGGCAGGAAAAAGTATATGAGGACAAATGTAAGGCAAATGACCATGAAACAGTTGAAT
 CACAGCAGGATCGAAGTGAACACGTTCTGTGGCAGAGCATAGCTCTGCTCATATGCAGACTGGTCAAAT
 TTCTGTTCTACTCTAGCTCAGGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGAAGTAATT
 GATTCGCATAAACGTAGAGAAATCTTTACGAAGACCCTCATATAGAAAAATACTGAATGAACTTTCCT
 CTGATGTGCCTGGTATTCCCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGGACACCACCTAACATTGC
 TACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGCAATAACAATGAGGAGACTGACCTTGCC
 CCAAGTCACATGGCTGCTGCCACAGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTACTGCTTTGC
 CACAAGGTGTGGTGTGGCTGCCTCACCAGGAAGCCTGCACAGTCCCCAGCAACTAGCAGAAGAAGCAAC
 TCGCAAGCGGGAGCTGAGGCTGATGAAAAACAGGGAAGCTGCTAAAGAAATGTCGACGTCGAAAGAAAGAG
 TATGTGAAGTGTCTTGAGAGTCGAGTCGCAGTCTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTG
 AAACTTTGAAAGACATTTGCTCTCCAAAAACAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222544 representing NM_001110857
Red=Cloning site Green=Tags(s)

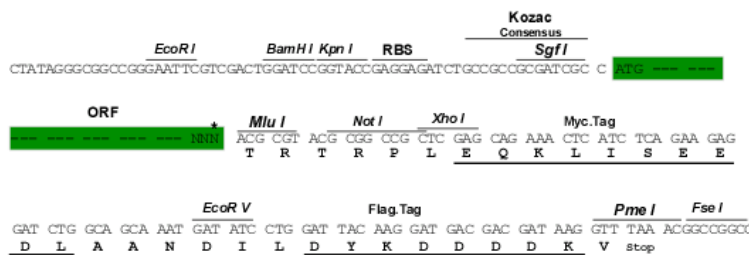
MSKCGRKKYMRTNVRQMTMETVESQQDRSVTRSVAEHSSAHMQTGQISVPTLAQVATIAETDDSDADSEVI
 DSHKRREILSRPSYRKILNELSSDVPGIPKIEEEKSEEEGTPPNIATMAVPTSIYQTSTGQYNEETDLA
 PSHMAAATGDMPTYQIRAPTTALPQGVMAASPGSLHSPQQLAEAEATRKRELRLMKNREAAKECRRRRKKE
 YVKCLESRVAVLEVQNKKLIEELETLDKIDICSPKTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001110857

ORF Size: 735 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_001110857.2](#), [NP_001104327.1](#)

RefSeq Size: 2236 bp

RefSeq ORF: 738 bp

Locus ID: 12916

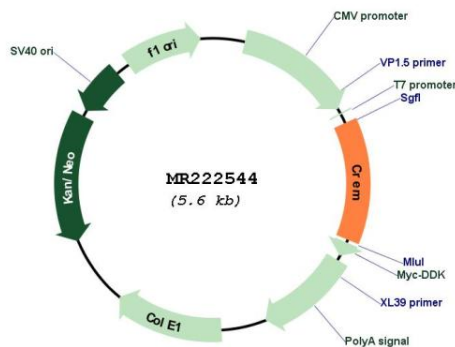
UniProt ID: [P27699](#)

Cytogenetics: 18 A1

MW: 27.8 kDa

Gene Summary: This gene encodes a basic-leucine zipper domain-containing protein that localizes to gene promoters, where it binds to the cyclic AMP response element (CRE). Different protein isoforms encoded by this gene may function as either activators or repressors of transcription. Activity of this gene is important in multiple developmental processes, including spermatogenesis. Mutation of this gene causes male infertility. Alternative splicing and promoter usage result in multiple transcript variants for this gene. [provided by RefSeq, Oct 2012]

Product images:



Circular map for MR222544