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Product datasheet for MR222546

Crem (NM_001110858) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crem (NM_001110858) 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:

>MR222546 representing NM_001110858
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAAATGTGGCAGGAAAAAGTATATGAGGACAAATGTAAGGCAAATGACCATGGAAACAGTTGAAT
CACAGCAGGATCGAAGTGTAACACGTTCTGTGGCAGAGCATAGCTCTGCTCATATGCAGACTGGTCAAAT
TTCTGTTCCTACTCTAGCTCAGGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGAAGTAATT
GATTCGCATAAACGTAGAGAAATTCTTTCACGAAGACCCTCATATAGAAAAATACTGAATGAACTTTCCT
CTGATGTGCCTGGTATTCCCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGGACACCACCTAACATTGC
TACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACACTGCCACAGGTGACATGCCA
ACTTACCAGATCCGAGCTCCTACTACTGCTTTGCCACAAGGTGTGGTGATGGCTGCCTCACCAGGAAGCC
TGCACAGTCCCCAGCAACTAGCAGAAGAAGCAACTCGCAAGCGGGAGCTGAGGCTGATGAAAAACAGGGA
AGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCTTGAGAGTCGAGTCGCAGTGCTG
GAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTGAAACTTTGAAAGACATTTGCTCTCCCAAAACAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

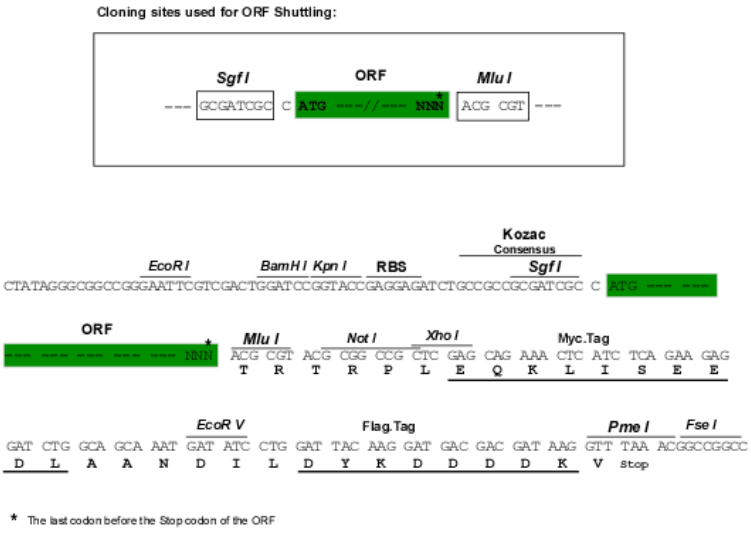
>MR222546 representing NM_001110858
Red=Cloning site Green=Tags(s)

MSKCGRKKYMRTNVRQMTMETVESQQDRSVTRSVAEHSSAHMQTGQISVPTLAQVATIAETDDSADSEVI
DSHKRREILSRRPSYRKILNELSSDVPGIPKIEEEKSEEEGTPPNIATMAVPTSIYQTSTGQYTATGDMP
TYQIRAPTTALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAAKECRRRKKEYVKCLESRVAVL
EVQNKKLIEELETLKDICSPKTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001110858

ORF Size: 699 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_001110858.2, NP_001104328.1

RefSeq Size: 2200 bp

RefSeq ORF: 702 bp

Locus ID: 12916

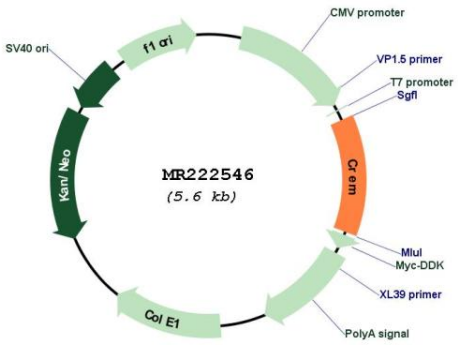
UniProt ID: P27699

Cytogenetics: 18 A1

MW: 26.6 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 MR222546