

Product datasheet for **MG224736**

Crem (NM_001110853) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crem (NM_001110853) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Crem
Synonyms:	IC; ICER; ICERI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224736 representing NM_001110853 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTCTGTAGCTGGATCAGGCACTGGAAGAGGCTCCCCAGCTGTGACTCTAGTACAGTTACCTTCAG
GCCAACTGTACAGGTCCAGGGAGTTATTCAGACACCACATCCATCGGTTATTCAATCACCACAAATACA
AACTGTTCAAGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGAAGTAATTGATTCGCATAAA
CGTAGAGAAATCTTTCACGAAGACCCTCATATAGAAAAATACTGAATGAACTTTCCTCTGATGTGCCTG
GTATTCCTCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGACACCACCTAACATTGCTACCATGGCAGT
ACCAACTAGCATATATCAGACTAGCACGGGCAATACATTGCTATAGCTCAAGGTGGAACAATCCAGATT
TCTAACCCAGGATCTGATGGTGTTCAGGGACTCCAGGCATTAACAATGACAAATTCAGGAGCTCCTCCGC
CAGGTGCTACAATTGTACAGTATGCAGCACAATCAGCCGATGGTACACAGCAGTCTTTGTCCCAGGCAG
CCAGGTTGTTGTTCAAGATGAGGAGACTGACCTTGCCCAAGTCACATGGCTGCTGCCACAGGTGACATG
CCAATTACCAGATCCGAGCTCCTACTGCTTTGCCACAAGGTGTGGTGTGCTGCCACAGGTGACATG
GCCTGCACAGTCCCAGCAACTAGCAGAAGAAGCAACTCGCAAGCGGGAGCTGAGGCTGATGAAAAACAG
GGAAGCTGCTAAAGAATGTCGACGTCGAAAGAAAGAGTATGTGAAGTGTCTTGAGAGTCGAGTCGCAGTG
CTGGAAGTTCAGAACAAGAAGCTTATAGAGGAGCTTGAACCTTTGAAAGACATTTGCTCTCCCAAAACAG
AT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224736 representing NM_001110853
 Red=Cloning site Green=Tags(s)

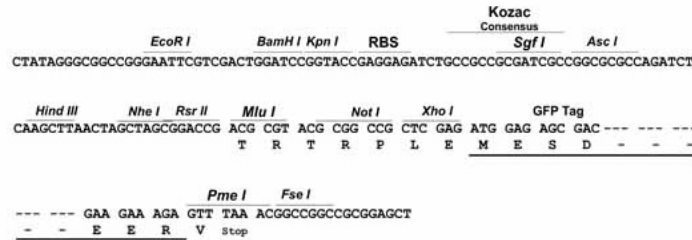
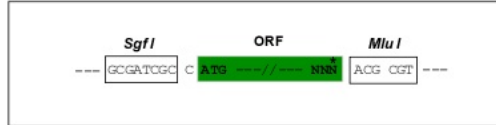
MVSVAGSGTGRGSPAVTLVQLPSGQTVVQVQGVVQVPHPSVIQSPQIQTVQVATIAETDDSDADSEVIDSHK
 RREILSRRPSYRKILNELSSDVPGIPKIEEEKSEEGTPPNIATMAVPTSIYQTSTGQYIAIAQGGTIQI
 SNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQQFFVPGSQVAVVQDEETDLAPSHMAAATGDM
 PTYQIRAPTTALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAAKECRRRKRKEYVKCLESRVAV
 LEVQNKKLIEELETCLKDICSPKTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001110853

ORF Size: 912 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_001110853.2](#), [NP_001104323.1](#)

RefSeq Size: 2192 bp

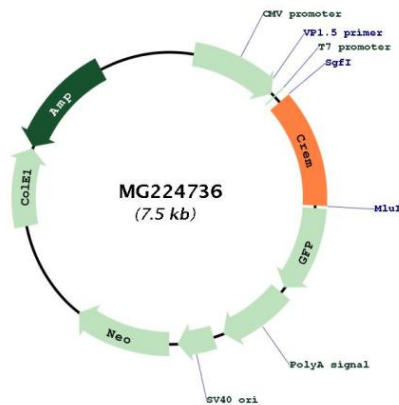
RefSeq ORF: 915 bp

Locus ID: 12916

Cytogenetics: 18 A1

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 MG224736