

Product datasheet for **MG222531**

Crem (NM_013498) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Crem (NM_013498) 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: | >MG222531 representing NM_013498 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAAATGTGGCAGGAAAAAGTATATGAGGACAAATGTAAGGCAAATGACCATGAAACAGTTGAAT
CACAGCAGGATCGAAGTGAACACGTTCTGTGGCAGAGCATAGCTCTGCTCATATGCAGACTGGTCAAAT
TTCTGTTCTACTCTAGCTCAGGTAGCAACAATTGCAGAGACAGATGATTCTGCAGACTCAGAAGTAATT
GATTCGCATAAACGTAGAGAAATCTTTACGAAGACCCTCATATAGAAAAATACTGAATGAACCTTCTCT
CTGATGTGCCTGGTATTCCAAGATTGAAGAAGAAAAATCAGAGGAAGAAGGGACACCACCTAACATTGC
TACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACAATGAGGAGACTGACCTTGCC
CCAAGTCACATGGCTGCTGCCACAGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTACTGCTTTGC
CACAAGGTGTGGTGTGGCTGCCTCACCAGGAAGCCTGCACAGTCCCCAGCAACTAGCAGAAGAAGCAAC
TCGCAAGCGGGAGCTGAGGCTGATGAAAAACAGGGAAGCTGCCCGGGAGTGTCCGAGGAAGAAGAAAGAA
TATGTCAAATGTCTTGAAAAATCGTGTGGCTGTGCTTGAAAAATCAAACAAGACCCTATTGAGGAACTCA
AGGCCCTCAAAGACCTTTATTGCCATAAAGCAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222531 representing NM_013498
 Red=Cloning site Green=Tags(s)

MSKCGRKKYMRTNVRQMTMETVESQQDRSVTRSVAEHSSAHMQTGQISVPTLAQVATIAETDDSDADSEVI
 DSHKRREILSRRPSYRKILNELSSDVPGIPKIEEEKSEEEGTPPNIATMAVPTSIYQTSTGQYNEETDLA
 PSHMAAATGDMPTYQIRAPTTALPQGVMAASPGSLHSPQQLAEAEATRKRELRLMKNREAARECRKKKE
 YVKLENRVAVLENQNKTLIEELKALKDLYCHKAE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013498

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_013498.3](#), [NP_038526.2](#)

RefSeq Size: 2650 bp

RefSeq ORF: 738 bp

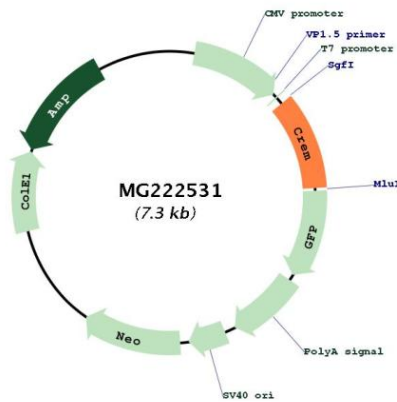
Locus ID: 12916

UniProt ID: [P27699](#)

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 MG222531