

Product datasheet for **RG215521**

CREM (NM_182771) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CREM (NM_182771) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CREM
Synonyms:	CREM-2; hCREM-2; ICER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215521 representing NM_182771 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGTGGCATCAGCATAATCTATGTTTCAGGCGTCCTATAGAAGAGGATTATTCTTCAGGGGATGTGG
AAGAAAAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCAGAATCAGAAGGTGAATTGATTCTCATAA
ACGTAGAGAAATCCTTTACGAAGACCCTTTATAGGAAAATACTGAATGAAGTGCCTCTGATGTGCCT
GGTGTCCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCTAGTATTGCTACCATGGCAG
TACCAACTAGCATATATCAGACTAGCACGGGCAATACATTGCTATAGCCCAAGGTGGAACAATCCAGAT
TTCTAACCAGGATCTGATGGTGTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGAGCTCCCTCCA
CCAGGTGCTACAATTGTACAGTACGCAGACAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCAGGCA
GCCAGGTGTTGTTCAAGCTGCCACTGGTGACATGCCAATTACCAGATCCGAGCTCCTACTGCTGCTTT
GCCACAGGGAGTGGTGTGGCTGCATCGCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCA
ACACGCAAACGAGAGCTGAGGCTAATGAAAAACAGGGAAGCTGCCAAAGAATGTCGACGTCGAAAGAAAG
AATATGTAATAATGCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTATAGAGGAACT
TGAACCTTGAAGACATTTGTTCTCCAAAACAGATTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215521 representing NM_182771
 Red=Cloning site Green=Tags(s)

MWWHQHNLCFRRPIEEDYSSGDVEEKVAAIAETDESAESEGVIDSHKRREILSRRPSYRKILNELSSDVP
 GVPKIEEERSEEEGTPPSIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPP
 PGATIVQYAAQSADGTQQFFVPGSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEA
 TRKRELRLMKNREAAKECRRRKKEYVKCLESRVAVLEVQNKKLEEELETLKDICSFKTDY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182771

ORF Size: 810 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_182771.2](#)

RefSeq Size: 2160 bp

RefSeq ORF: 813 bp

Locus ID: 1390

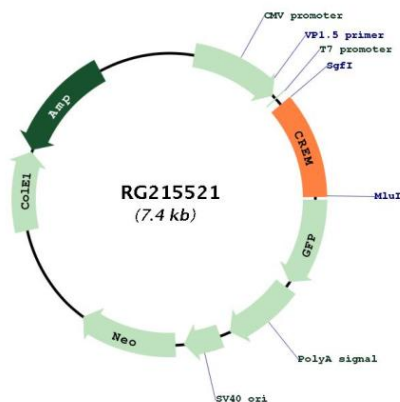
UniProt ID: [Q03060](#)

Cytogenetics: 10p11.21

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes a bZIP transcription factor that binds to the cAMP responsive element found in many viral and cellular promoters. It is an important component of cAMP-mediated signal transduction during the spermatogenetic cycle, as well as other complex processes. Alternative promoter and translation initiation site usage allows this gene to exert spatial and temporal specificity to cAMP responsiveness. Multiple alternatively spliced transcript variants encoding several different isoforms have been found for this gene, with some of them functioning as activators and some as repressors of transcription. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG215521