

Product datasheet for **RG203489**

CREB3 (NM_006368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CREB3 (NM_006368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CREB3
Synonyms:	LUMAN; LZIP; sLZIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203489 representing NM_006368 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGGAATTGGATGCTGGTGACCAAGACCTGCTGGCCTTCTGCTAGAGGAAAGTGGAGATTTGG
GGACGGCACCCGATGAGGCCGTGAGGGCCCCACTGGACTGGGCGTGCCGCTTTCTGAGGTACCGAGCGA
CTGGGAAGTAGATGATTTGCTGTGCTCCCTGCTGAGTCCCCAGCGTCGTTGAACATTCTCAGCTCCTCC
AACCCCTGCCTTGTCCACCATGACCACACCTACTCCCTCCCACGGGAACTGTCTCTATGGATCTAGAGA
GTGAGAGCTGTAGAAAAGAGGGGACCCAGATGACTCCACAGCATATGGAGGAGCTGGCAGAGCAGGAGAT
TGCTAGGCTAGTACTGACAGATGAGGAGAAGAGTCTATTGGAGAAGGAGGGGCTTATTCTGCCTGAGACA
CTTCTCTCACTAAGACAGAGGAACAAATCTGAAACGTGTGCGGAGGAAGATTCGAAATAAAGATCTG
CTCAAGAGAGCCGAGGAAAAAGAAGGTGTATGTTGGGGGTTTAGAGAGCAGGGTCTTGAATACACAGC
CCAGAATATGGAGCTTCAGAACAAGTACAGCTTCTGGAGGAACAGAATTTGTCCCTTCTAGATCAACTG
AGGAACTCCAGGCCATGGTGATTGAGATATCAAACAAAACCAGCAGCAGCAGCACCTGCATCTTGGTCC
TACTAGTCTCCTTCTGCCTCCTCCTGTACCTGCTATTTACTCCTCTGACACAAGGGGGAGCCTGCCAGC
TGAGCATGGAGTGTGTCCCGCCAGCTTCGTGCCCTCCCAGTGAGGACCCTTACCAGCTGGAGCTGCCT
GCCCTGCAGTCAGAAGTGCCGAAAGACAGCACACCAGTGTTGGACGGCTCAGACTGTGACTCCAGG
CCCCTGGCAACACTTCTGCCTGCTGCATTACATGCCTCAGGCTCCCAGTGACAGACCTCCCCTGGAGTG
GCCATTCCCTGACCTCTTCTCAGAGCCTCTCTGCCGAGGTCCCATCCTCCCCTGCAGGCAAATCTCACA
AGGAAGGGAGGATGGCTTCTACTGCTAGCCCCTGTGTCATTTTGCAGGACAGATACTCAGGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203489 representing NM_006368
 Red=Cloning site Green=Tags(s)

MELELDAGDQDLLAFLLLEESGDLGTAPDEAVRAPLDWALPLSEVPSDWEVDLLCSLLSPPASLNILSSS
 NPCLVHHHTYSLPRETVSMDLESESCRKEGTQMPQHMEELAEQEIARLVLTDEEKSLLEKEGLILPET
 LPLTKTEEQILKRVRKIRNKRSAQESRRKKVYVGGLESRVLKYYTAQNEMELQNKVQLLEEQLSLLDQL
 RKLQAMVIEISNKTSSSSTCILVLLVSFCLLLVPAIYSSDTRGSLPAEHGVLRSQRLRALPSEDPYQLELP
 ALQSEVPKDPSTHQWLDGSDCVLQAPGNTSCLLHYMPQAPSAEPPLEWPFDFLSEPLCRGPILPLQANLT
 RKGGLPTGSPSVILQDRYSG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006368

ORF Size: 1113 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_006368.2](#)

RefSeq Size: 1868 bp

RefSeq ORF: 1116 bp

Locus ID: 10488

UniProt ID: [O43889](#)

Cytogenetics: 9p13.3

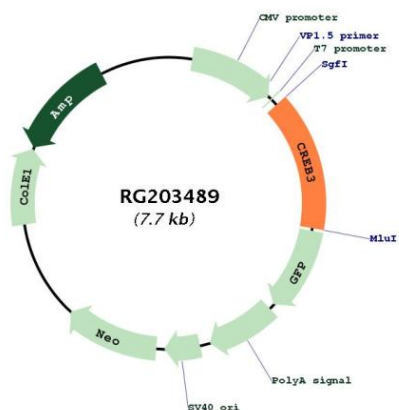
Domains: BRLZ

Protein Families: Transcription Factors

Protein Pathways: Huntington's disease, Melanogenesis, Prostate cancer

Gene Summary: This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds to the cAMP-response element and regulates cell proliferation. The protein interacts with host cell factor C1, which also associates with the herpes simplex virus (HSV) protein VP16 that induces transcription of HSV immediate-early genes. This protein and VP16 both bind to the same site on host cell factor C1. It is thought that the interaction between this protein and host cell factor C1 plays a role in the establishment of latency during HSV infection. This protein also plays a role in leukocyte migration, tumor suppression, and endoplasmic reticulum stress-associated protein degradation. Additional transcript variants have been identified, but their biological validity has not been determined.[provided by RefSeq, Nov 2009]

Product images:



Circular map for RG203489