

Product datasheet for **MG226836**

Creb1 (NM_001037726) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb1 (NM_001037726) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Creb1
Synonyms:	2310001E10Rik; 3526402H21Rik; AV083133; Creb; Creb-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226836 representing NM_001037726 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCAGCTCATGCAACATCATCTGCTCCCCTGTAACTTAGTGCAGCTGCCCAATGGGCAGACAG
TCCAGGTCCATGGCGTTATCCAGGCGGCCAGCCATCAGTTATCCAGTCTCCACAAGTCCAAACAGTTCA
GATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCTGTGGATAGTGAAGTATCCCAAAAACGA
AGGGAAATCCTTCAAGGAGGCCTTCTACAGGAAAATTTGAATGACTTATCTTCTGATGCACCAGGGG
TGCCAAGGATTGAAGAAGAAAAGTCAGAAGAGGAGACTTCAGCCCCTGCCATCACCCTGTAACTGACC
AACCCCAATTTACCAAATAGCAGTGGGAGTACATTGCCATTACCCAGGAGGAGCAATACAGCTGGCT
AACCAATGGTACGGATGGGTACAGGCTGTCAGACATTAAACATGACCAATGCAGCTGCCACTCAGCCGG
GTACTACCATTCTACAGTATGCACAGACCACTGATGGACAGCAGATTCTAGTGCCAGCAACCAAGTTGT
TGTTCAAGCTGCCTCAGGCGATGTACAACATACCAGATCCGCACAGCACCCACGAGCACCATTGCCCT
GGAGTTGTTATGGCGTCTCCCAAGCACTTCTACACAGCCTGCTGAAGAAGCAGCACGGAAGAGAGAGG
TCCGTCTAATGAAGAAGAGGAGGAGCAAGAGAATGTCGTAGAAAGAAGAAAGAATATGTGAAATGTTT
AGAGAACAGAGTGGCAGTGTGTTGAAAACAAAACAAACATTGATTGAGGAGCTAAAAGCACTTAAGGAC
CTTTACTGCCACAAATCAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226836 representing NM_001037726
 Red=Cloning site Green=Tags(s)

MPAAHATSSAPTIVTLVQLPNGQTVQVHGVIQAAQPSVIQSPQVQTVQISTIAESEDSSQESVDSVTD SQKR
 REILSRRPSYRKILNDLSSDAPGVPRIEEEKSEETSAPAITTVPTPIYQTS SGQYIAITQGGAIQLA
 NNGTDGVQGLQTLTMTNAAATQPGTTILQYAQTDDGQILVPSNQVVVQAASGDVQTYQIRTAPTSTIAP
 GVVMASSPALPTQPAEEAARKREVRLMKNREAARECRRKKKEYVKLENRVAVLENQNKTLIEELKALKD
 LYCHKSD

TRTRPLE - GFP Tag - V

Restriction Sites:

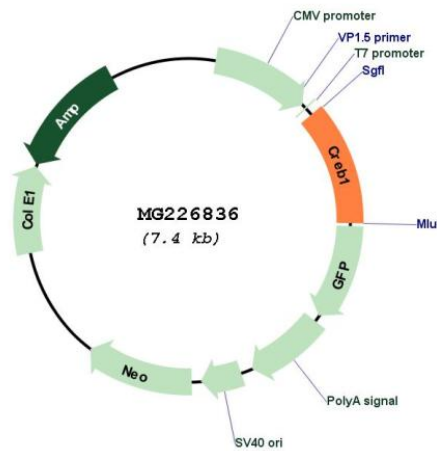
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001037726

ORF Size: 861 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:	<ol style="list-style-type: none">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_001037726.1 , NP_001032815.1
RefSeq Size:	8267 bp
RefSeq ORF:	864 bp
Locus ID:	12912
Cytogenetics:	1 32.74 cM
Gene Summary:	Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells. [UniProtKB/Swiss-Prot Function]