

Product datasheet for **MG204788**

Creb1 (NM_133828) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creb1 (NM_133828) 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:	>MG204788 representing NM_133828 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATGGAATCTGGAGCAGACAACCAGCAGAGTGGAGATGCTGCTGTAAACAGAAGCTGAAAATCAAC
AAATGACAGTTCAAGCCCAGCCACAGATTGCCACATTAGCCCAGGTATCCATGCCAGCAGCTCATGCAAC
ATCATCTGCTCCCACTGTAACCTTAGTGCAGCTGCCCAATGGGCAGACAGTCCAGGTCCATGGCGTTATC
CAGGCGGCCAGCCATCAGTTATCCAGTCTCCACAAGTCCAAACAGTTCAGATTTCAACTATTGCAGAAA
GTGAAGATTCACAGGAGTCTGTGGATAGTGAAGTACTGACTCCAAAAACGAAGGAAATCCTTTCAAGGAG
GCCTTCTACAGGAAAATTTGAATGACTTATCTTCTGATGCACCAAGGGTGCCAAGGATTGAAGAAGAA
AAGTCAGAAGAGGAGACTTCAGCCCTGCCATCACCCTGTAACAGTGCCAACCCCATTTACAAACTA
GCAGTGGGCAGTACATTGCCATTACCCAGGGAGGAGCAATACAGCTGGCTAACAAATGGTACGGATGGGGT
ACAGGGCTGCAGACATTAACCATGACCAATGCAGCTGCCACTCAGCCGGTACTACCATTTACAGTAT
GCACAGACCACTGATGGACAGCAGATTCTAGTGCCAGCAACCAAGTTGTTGTTCAAGCTGCCTCAGGCG
ATGTACAAACATACCAGATCCGCACAGCACCCACGAGCACCATTGCCCTGGAGTTGTTATGGCATCCTC
CCCAGCACTTCTACACAGCCTGCTGAAGAAGCAGCACGGAAGAGAGAGGTCCGTCTAATGAAGAACAGG
GAGGCAGCAAGAGAATGTCGTAGAAAGAAGAAAGAATATGTGAAATGTTTAGAGAACAGAGTGCCAGTGC
TTGAAAACCAAAACAAAACATTGATTGAGGAGCTAAAAGCACTTAAGGACCTTCACTGCCAAAATCAGA
T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204788 representing NM_133828
Red=Cloning site Green=Tags(s)

MTMESGADNQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMPPAAHATSSAPTVTLVQLPNGQTVQVHGVI
 QAAQPSVIQSPQVQTVQISTIAESEDSESVDSVTDSQKRREILSRRPSYRKILNDLSSDAPGVPRIEEE
 KSEEETSAPAITTVTPPIYQTSYGQYIAITQGGAIQLANNGTDGVQGLQTLTMTNAAATQPGTTILQY
 AQTDDGQQILVPSNQVVVQAASGDVQTYQIRTAPTSTIAPGVVMASSPALPTQPAEEAARKREVRMLMKNR
 EAARECRKKKEYVKLENRVAVLENQNKTLIEELKALKDLHCHKSD

TRTRPLE - GFP Tag - V

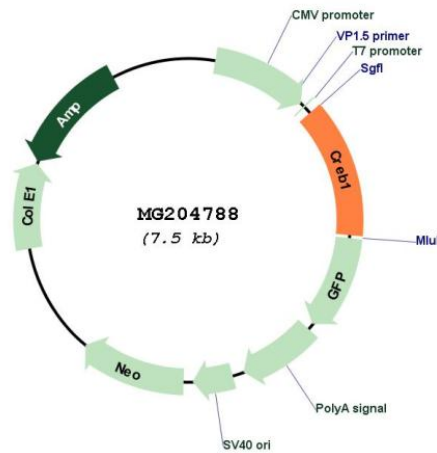
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133828

ORF Size: 981 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_133828.1</p>
RefSeq Size:	<p>8389 bp</p>
RefSeq ORF:	<p>984 bp</p>
Locus ID:	<p>12912</p>
UniProt ID:	<p>Q01147</p>
Cytogenetics:	<p>1 32.74 cM</p>
Gene Summary:	<p>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]</p>