

Product datasheet for **SC120496**

CREB1 (NM_134442) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CREB1 (NM_134442) Human Untagged Clone
Tag:	Tag Free
Symbol:	CREB1
Synonyms:	CREB; CREB-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120496 sequence for NM_134442 edited (data generated by NextGen Sequencing)

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ATGACCATGGAATCTGGAGCCGAGAACCAGCAGAGTGGAGATGCAGCTGTAAACAGAAGCTGAAAACCAAC
AAATGACAGTTCAAGCCCAGCCACAGATTGCCACATTAGCCCAGGTATCTATGCCAGCAGCTCATGCAAC
ATCATCTGCTCCCACCGTAACTCTAGTACAGCTGCCCAATGGGCAGACAGTTCAAGTCCATGGAGTCATT
CAGGCGGCCAGCCATCAGTTATTCAGTCTCCACAAGTCCAAACAGTTCAGTCTTCTCTGTAAGGACTTAA
AAAGACTTTTCTCCGGAACACAGATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCAGTGGATAG
TGTAAGTATTCCAAAAGCGAAGGAAATTTCTTCAAGGAGGCCTTCTACAGGAAAATTTTGAATGAC
TTATCTTCTGATGCACCAGGAGTGCCAAGGATTGAAGAAGAGAAGTCTGAAGAGGAGACTTCAGCACCTG
CCATCACCAGTGTAAACGGTGCCAACTCCAATTTACCAAATAGCAGTGGACAGTATATTGCCATTACCCA
GGGAGGAGCAATACAGCTGGCTAACAATGGTACCGATGGGGTACAGGGCCTGCAAACATTAACCATGACC
AATGCAGCAGCCACTCAGCCGGTACTACCATTCTACAGTATGCACAGACCACTGATGGACAGCAGATCT
TAGTGCCAGCAACCAAGTTGTTGTTCAAGCTGCCTCTGGAGACGTACAAACATACCAGATTGCGACAGC
ACCCACTAGCACTATTGCCCTGGAGTTGTTATGGCATCTCCCCAGCACTTCTACACAGCCTGCTGAA
GAAGCAGCACGAAAGAGAGAGGTCCGTCTAATGAAGAACAGGGAAGCAGCTCGAGAGTGTCTGTAAGA
AGAAAATATGTAAATGTTTAGAAAACAGAGTGGCAGTGTCTTGAATAACAAAACAAAGACATTGATTGA
GGAGCTAAAAGCACTTAAGGACCTTTACTGCCACAAATCAGATTAA
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Clone variation with respect to NM_134442.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_134442 unedited</p> <pre> ATTTTGTAAACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGGGCTGGCTCCCT GGCTGCGGCTCCTCAGTCGGCGGGCGGCTGCTGCTGCCTGTGGCCCGGGCGGCTGGGAGAA GCGGAGTGTGGTGAGTGACGCGGGCGGAGGTGTAGTTTGACGCGGTGTGTACGTGGGGG AGAGAATAAACTCCAGCGAGATCCGGGCCGTGAACGAAAGCAGTGACGGAGGAGCTTGT ACCACCGGTAACATAATGACCATGGAATCTGGAGCCGAGAACCAGCAGAGTGGAGATGCA GCTGTAACAGAAGCTGAAAACCAACAAATGACAGTTCAAGCCCAGCCACAGATTGCCACA TTAGCCCAGGTATCTATGCCAGCAGCTCATGCAACATCATCTGCTCCCACCGTAACCTTA GTACAGCTGCCAATGGGCAGACAGTTCAGTCCATGGAGTCATTACGGCGGCCAGCCA TCAGTTATTAGTCTCCACAAGTCCAAACAGTTCAGTCTTCTGTAAAGACTTAAAAAGA CTTTTCTCCGGAACACAGATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCAGTG GATAGTAACTGATTCCAAAAGCGAAGGAAATTTCTTCAGGAGGCCTTCTACAGAN AATTTTGAATGACTTATCTTCTGATGCACCAGGAGTGCCAAGGATTGAAGAAGAGAAGTC TGAAGAGGAGACTTCAGCACCTGCCATCACCAGTAAACGGTGCNACTCCAATTTACCA AACTAGCAGTGGACAGTATATTGCCATTACCCAGGGGAGAGGCATACAGCTGGCTAACAT GGTACCGATGGGGTACAGGGGCTGCAACATTAACCT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_134442 unedited</p> <pre> CGGCCGCTTTCTANATCGAGTTTTTTTTTTTTTTTTTTTGGAGTAACTGTTAGATTTATCGA GCTTAGTGAATAAAATGAGTAACAATTAAGTGGTATTGAAAACAATGTATGATATACA CAAATACAGACTGTTTTAATCAGGAATTAATTAATAAAATGACAAAGGCTATACAGCAT ATTGGAAAGCTAAAGCAGAACTAATAACTACTCTTTTTACAAGAGAACAATAAAATGTTT TGTAAGAATGACAATCCAATATTGCAGTACAGCAGTCATTCAAATATGTCTGAAAATAA CTTTCCTGTGCACATCTAACACTGTACTTTTTATATCCTTACAACCTTCTTCATTTAAA AAATTCAGTAGAGATTCTCTGTTAAATTGTTAATATGGAAAATATTTAAAATCAGTATTT TTCTACATGTAACATTTATAAAACAATATATATCACTTTGCTTTATTTGACATCTTGAA GGCTTTCTTGGTGGTGGTATGTAAGTGCAATGGGCAACAGTAAATTAGAAATACCTTTTT ACGTAATGAGTGACAATATAAATATTTTGAAGGTGAGGACAATAACATTCATTTAAAA ATCTTGTATATAACTCAAGGGATTGGTTTACTGATCAGCATTCTACTAAGAATTTACCA CTAACTAAAACACGCTCTGTCTTTTTCTTTACTCTGCTCTAACTAAAACTCAAATACCA CGCTTTGCGGCTCAGTCGCCACTTCCCTTCATGTATCGCAAACGGTGGACCCCTTCCCAA CTGGATTACGCACACCCTACTGCCCTCCGAAAGAGCGGTTACCCCATACTGGCTTTTA CCACCACGGCACATCCTCTCCGTTTGAATACAACACCTTCACTTACGCCCTGACCCCTT TCTCCACTTCCCTTACCCGCCAACTTCTTCCCCTGTTCCGCCCTTAACCCCATAT TGCTACCGCCAGCCTC </pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_134442
Insert Size:	3180 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_134442.2 , NP_604391.1
RefSeq Size:	10221 bp
RefSeq ORF:	1026 bp
Locus ID:	1385
UniProt ID:	P16220
Cytogenetics:	2q33.3
Domains:	pKID, BRLZ
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Antigen processing and presentation, Huntington's disease, Melanogenesis, Prostate cancer
Gene Summary:	<p>This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (2, also known as B) represents the longest transcript and encodes the longest isoform (B). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>