

## Product datasheet for **SC323817**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

>OriGene sequence for NM\_134442.2  
 GCGGTGTGTTACGTGGGGGAGAGAATAAACTCCAGCGAGATCCGGGCCGTGAACGAAAG  
 CAGTGACGGAGGAGCTTGTACCACCGGTAATAATGACCATGGAATCTGGAGCCGAGAA  
 CCAGCAGAGTGGAGATGCAGCTGTAAACAGAAGCTGAAAACCAACAATGACAGTTCAAGC  
 CCAGCCACAGATTGCCACATTAGCCCAGGTATCTATGCCAGCAGCTCATGCAACATCATC  
 TGCTCCCACCGTAACCTAGTACAGCTGCCCAATGGGCAGACAGTTCAGTCCATGGAGT  
 CATTACAGCGGCCAGCCATCAGTTATTAGTCTCCACAAGTCCAAACAGTTCAGTCTTC  
 CTGTAAGGACTTAAAAAGACTTTTTCTCCGGAACACAGATTTCAACTATTGCAGAAAAGTGA  
 AGATTCACAGGAGTCAGTGGATAGTGTAACTGATTCACAAAAGCGAAGGGAAATCTTTTC  
 AAGGAGGCCTTCTACAGGAAAATTTTGAATGACTTATCTTCTGATGCACCAGGAGTGCC  
 AAGGATTGAAGAAGAGAAGTCTGAAGAGGAGACTTCAGCACCTGCCATCACCCTGTAAC  
 GGTGCCAACTCCAATTTACCAAAGTACAGTGGACAGTATATTGCCATTACCCAGGGAGG  
 AGCAATACAGCTGGCTAACAAATGGTACCGATGGGGTACAGGGCCTGCAAACATTAACCAT  
 GACCAATGCAGCAGCCACTCAGCCGGTACTACCATTCTACAGTATGCACAGACCACTGA  
 TGGACAGCAGATCTTAGTCCCAGCAACCAAGTTGTTGTTCAAGCTGCCTCTGGAGACGT  
 ACAAACATACCAGATTCGCACAGCACCCACTAGCACTATTGCCCTGGAGTTGTTATGGC  
 ATCCTCCCAGCACTTCTACACAGCCTGCTGAAGAAGCAGCAGCAAAGAGAGAGGTCCG  
 TCTAATGAAGAACAGGGAAGCAGCTCGAGAGTGTCTGATAGAAAAGAAAGAAATATGTGAA  
 ATGTTTAGAAAACAGAGTGGCAGTGTGTTGAAAATCAAAAACAAGACATTGATTGAGGAGCT  
 AAAAGCACTTAAGGACCTTTACTGCCACAAATCAGATTAATTTGGGATTTAAATTTTTCAC  
 CTGTTAAGGTGGAAAATGGACTGGCTTGGCCACAACCTGAAAGACAAAATAAACATTTTA  
 TTTTCTAAACATTTCTTTTTTCTATGCGCAAACTGCCTGAAAGCAACTACAGAATTTTC  
 ATTCATTTGTCTTTTGCATTAAACTGTGAATGTTCCAACACCTGCCTCCACTTCTCCCTC  
 TCAAGAAAATTTTCAACGCCAGGAATCATGAAGAGACTTCTGTTTTCAACCCCCACCCCTC  
 CTAAGAAGTAATAATTTGTTTACTTGTAAATTGATGGGAGAAATGAGGAAAAGAAAATC  
 TTTTTAAAAATGATTTCAAGTTTTGTGCTGAGCTCCTTGATTGCCTTAGGGACAGAATTA  
 CCCCAGCCTCTTGAGCTGAAGTAATGTGTGGGCCGCATGCATAAAGTAAGTAAGGTGCAA  
 TGAAGAAGTGTGATTGCCAAATGACATGTTGTACATTCTCATTGTGAATTATGTAAA  
 GTTGTAAAGAGACATACCCTCTAAAAAAGAACTTAGCATGGTATTGAAGGAATTAGAAA  
 TGAATTTGGAGTGCTTTTTATGTATGTTGTCTTCTCAATACTGAAAATTTGCTTGGT  
 TCTTAAAAGCATTCTGTACTAATACAGCTCTCCATAGGGCAGTTGTTGCTTCTTAATTC  
 AGTCTGTATGTGTTCAACATTTTTGAATACATTAAGAAGTAACCAACTGAACGACAA  
 AGCATGGTATTTGAATTTAAATTAAGCAAAGTAAATAAAAGTACAAAGCATATTTTAG  
 TTAGTACTAAATCTTAGTAAAATGCTGATCAGTAAACCAATCCCTTGAGTTATATAACA  
 AGATTTTTAAATAAATGTTATTGCTCCTCACCTTCAAAAATATTTATATTGCACTCATT  
 ACGTAAAAAGATATTTCTAATTTACTGTTGCCATTGCACTTACATACCACCACCAAGAA  
 AGCCTTCAAGATGTCAAATAAAGCAAAGTATATATTTGTTTATGAAATGTTACATGT  
 AGAAAAAATCTGATTTTAAATATTTTCCATATTAACAATTTAACAGAGAATCTCTAGTGA  
 ATTTTTTAAATGAAAGAAGTTGTAAGGATATAAAAAGTACAGTGTAGATGTGCACAAGG  
 AAAGTTATTTTTCAGACATATTTGAATGACTGCTGTACTGCAATATTTGGATTGTCACTT  
 TACAAAACATTTTTTTGTTCTCTGTAAAAAGAGTAGTTATTAGTTCTGCTTTAGCTTTC  
 CAATATGCTGTATAGCCTTTGTCAATTTTATAATTTAATTCCTGATTAACAGTCTGTA  
 TTTGTGTATATCATACATTGTTTTCAATACCACTTTTAAATTTGTTACTCATTTTATCACT  
 AAGCTCGATAAATCTAACAGTACTCTTAAAAAAGAAAGAAAGTAAAGTAAAGTAAAGTAAAG  
 AAATTTGAAACTGACATAATGTTAGGTTATAATTTCTCATTTGGAGCCGGGCGCAGTGGC  
 TCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACCTGTGGTCAAGA  
 GTTCAAGACCAGCCTGGCCATCATGGTGAACCCCATCTCTACTAAAAATACAAAATTA  
 GCCAGGCGTGGTGGCTGGCGCCTGTAATCTCAGCTCCTCAGGAGCTTGAGGCAGCAGAAT  
 TGCTTGAACCCAGGAGGCAGAGGTTGCAAGTGAAGCCGAGATAGCACCACTTGCCTCCAGC  
 CTGGGCGACTCCATCTCAAAAAATAAAAAAAAAAAAAA

**Restriction Sites:**

ECoRI-NOT

<b>ACCN:</b>	NM_134442
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_134442.2</a></u> , <u><a href="#">NP_604391.1</a></u>
<b>RefSeq Size:</b>	3006 bp
<b>RefSeq ORF:</b>	1026 bp
<b>Locus ID:</b>	1385
<b>UniProt ID:</b>	<u><a href="#">P16220</a></u>
<b>Cytogenetics:</b>	2q33.3
<b>Domains:</b>	pKID, BRLZ
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation, Huntington's disease, Melanogenesis, Prostate cancer
<b>Gene Summary:</b>	<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>