

## Product datasheet for SC123731

### CREB1 (BC008051) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CREB1 (BC008051) Human Untagged Clone
Tag:	Tag Free
Symbol:	CREB1
Synonyms:	C16orf44
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for BC008051 edited  
GGCACGAGGATCAAGTGGGACTTCAGACCTGGCTCTGAGCAGGACCACACGTGTGTATT  
ATATTGAGTGCCCTCACTCATGATAAGGTGACTTCATGGAGACCCAGAACTCACCTAA  
GGGGTGTTCACCTTTGAGGTGGGCATCCAGATGCTGAGGGGAAGTGGGGTCCATCCTCTG  
AGGTCCAGGGGCTACTTTGTGAGCTCAGTTGTGTTACCTGTGGTTCAGTGTACCTCGG  
CCCCTAAGCCAAGTGATCGTTCAGTGACTTGCAGCAATGTGGGAAGTGAAGGGACCCCTG  
CCACACCCCCACCACCCCTGTAGAGTCACTGACCTTCATCCTTACCCTGGTCTCCA  
TGGTGCAGCAGCATCTCATGGGCTTGTGGCTGTCAGAGCCCGTGGTTGGAACCCCGTCC  
ACTGGTCCCAAACCTGGAGGGGAGCTGCAGATGAGGTTTAGACCTCCTGGTGTCTCCGT  
GGATTCTGAGTGCCAGGAGGGAGGGGAGGGGTGGCATCCTGGCCTTAGGATAAATG  
CCTGGAGTATAGGGCAGCGCCACGGGCACTTGGAGACCCTGTCCGCGCATCTGCCAAGC  
CTGGCAGTTTTTAGAGTTTTTGAATGTTTTGATACTTTTTGATACAATTTGTAATAA  
CTGTTTTGTAGAATGCCTGCCGGGTTTTCCACCTCATCCCTTCTCCGGCCCCCTTGAT  
TTGTGCTGGACAACAAATGGCAGCACCAGGACCTCGCCTCATGTGGCTTTGTCTTGGATC  
TTGCCCTTCTCCATCGCTGATGTGATACAGCTCTAGAATTTTCGTGAAGTTGCATGCAAAG  
TTGCATGCAGCCCGTGGGTATGACTGTCTCAGGCCCCAGCTCATTTGCCAAGAGGAAAC  
CTTAACCCCTGAGAGGGTCTGCGTTTTCTTAGAGCTCCTACCTCAGTGGTGTGCACA  
GAGTTGGAGACACCTGAGGGTCCAGTCTCACCTTGGCCATACGGGTCATTTCTTG  
ATCAAATATAGACTGGGTCCTGGTTTTACTCCGCCACCCTTTCTTTTAAAGTATTCT  
TAACATGAAATCCACAAAAGCGGAAACAATGAACCATTCTTGCATTTACAGAATCATTG  
TCCTTAGCTTTAGAGTTGTTAATTTCTGTTTTTAACATGAACAGAATGTGTGGTTCTG  
AAGGTGTGTGGGGTCTCAAGAAATGTCTTTGGGGCCGGGCGCAGTGGCTCACGCCTG  
TAATCCCAGCACTCTGGGAGGCCAAGGGGACGGATCACCTGAGGTCAAGAGTTTGAAC  
CACCTGACCAACATGGTAAACCCGCTCTACTAAAAACAAAAATTAGGCAGTCGTG  
GTCGCCTGTAATCTCAGCTTCCGGAGGCTGAGGCAGGAGAATCGTTGAACCCAGGAG  
GCAGAGTTGAGTGCAGTGCAGGAGTTGCGCCACTGCACTCCAGCCTGGGTGACCGAGTAAG  
ACTGTCTCAAAAAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC008051 unedited NCCTGCGNGATTTGTATCCGACTTACTATAGGGCGGCCGCGCAATTTCGCACGAGGATCAA GTGGGACTTCATACCTGGCTCTGAGCAGGACCACACGTGTGATTTATATTGAGTGCCCT CACTCATGATAAGGTGACTTCATGGAGACCCAGAACTCACCTAAGGGGTGTTACCTT TGAGGTGGGCATCCAGATGCTGAGGGGAAGTGGGTCCATCCTCTGAGGTCCAGGGGCT ACTTTGTGAGCTCAGTTGTGTTACCTGTGGTTCAGTGTACCTCGGCCCTAAGCCAAGT GATCGTTCAGTGACTTGCAGCAATGTGGGAAGTGGGGACCCCTGCCACACCCCCACC ACCCCCTGTAGAGTCACTGACCTTCATCCTTACCCTGGTCCATGGTGCAGCAGCAT CTCATGGGCCTTGTGGCTGTGAGAGCCCGTGGTTGGAACCCCGTCCACTGGTCCCAAACC TGGAGGGGACGCTGCAGATGAGGTTTAGACCTCCTGGTGTCTCCGTGGATTCTGAGTGCC CAGGATGGGAGGGGAGGGGTGGCATCCTGGCCTTAGGATAAATGCCTGGAGTATAGGG CAGCGCCACGGGCACTTGGAGACCCTGTCTGCGCATCTGCCAAGCTGGCAGTTTTTAG AGTTTTTTGAAATGTTTTGATACTTTTTGATACAATTTGCTAATAACTTTTTGTAGAAT GCCTGCCGGGTTTTTACCTCATCCCTTTCCTTCGGGCCCTTGATTTGTGCTTGACAA CANATGGCAGCACCAGGACCTCGCCTCATGTGGCTTTGCTTGGATCTTGCCTTTCTCCA TCGTGATGGGATACAACCTCTAGAATTCGGGAAGTTGCATGCAAAATTGCTTGCACCCCG TGGGTTTT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC008051
<b>Insert Size:</b>	1526 bp
<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>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>	<a href="#">BC008051.1</a> , <a href="#">AAH08051.1</a>
<b>RefSeq Size:</b>	1526 bp
<b>Locus ID:</b>	1385
<b>Cytogenetics:</b>	2q33.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation, 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 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]