

## Product datasheet for **SC117388**

### **CREB1 (NM\_004379) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CREB1 (NM_004379) Human Untagged Clone
Tag:	Tag Free
Symbol:	CREB1
Synonyms:	CREB; CREB-1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC117388 sequence for NM_004379 edited (data generated by NextGen Sequencing)

```
ATGACCATGGAATCTGGAGCCGAGAACCAGCAGAGTGGAGATGCAGCTGTAACAGAAGCT
GAAAACCAACAAATGACAGTTCAAGCCCAGCCACAGATTGCCACATTAGCCCAGGTATCT
ATGCCAGCAGCTCATGCAACATCATCTGCTCCCACCGTAACTCTAGTACAGCTGCCAAT
GGGCAGACAGTTCAAGTCCATGGAGTCATTCAGGCGGCCAGCCATCAGTTATTCAGTCT
CCACAAGTCCAAACAGTTCAGATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCA
GTGGATAGTGAACTGATTCCCAAAAGCGAAGGGAAAATTTCTTCAAGGAGGCCTTCTAC
AGGAAAATTTTGAATGACTTATCTTCTGATGCACCAGGAGTGCCAAGGATTGAAGAAGAG
AAGTCTGAAGAGGAGACTTCAGCACCTGCCATCACCAGTGAACGGTGCCAACTCCAATT
TACCAAAC TAGCAGTGGACAGTATATTGCCATTACCCAGGGAGGAGCAATACAGCTGGCT
AACAAATGGTACCGATGGGGTACAGGGCCTGCAAACATTAACCATGACCAATGCAGCAGCC
ACTCAGCCGGGTACTACCATTCTACAGTATGCACAGACCACTGATGGACAGCAGATCTTA
GTGCCAGCAACCAAGTTGTTGTTCAAGCTGCCTCTGGAGACGTACAAACATACCAGATT
CGCACAGCACCCACTAGCACTATTGCCCTGGAGTTGTTATGGCATCCTCCCCAGCACTT
CCTACACAGCCTGCTGAAGAAGCAGCACGAAAGAGAGAGGTCCGTCTAATGAAGAACAGG
GAAGCAGCTCGAGAGTGTCTAGAAAAGAAGAAAGAATATGTGAAATGTTTAGAAAACAGA
GTGGCAGTGCTTAAAAATCAAAAACAAGACATTGATTGAGGAGCTAAAAGCACTTAAGGAC
CTTTACTGCCACAAATCAGATTAA
```

Clone variation with respect to NM\_004379.3



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004379 unedited  
 GGTACATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCCTCAGTCGG  
 CCGCGGCTGCTGCTGCCTGTGGCCCGGGCGGCTGGGAGAAGCGGAGTGTTGGTGAGTGAC  
 GCGGCGGAGGTGTAGTTTGACGCGGTGTGTTACGTGGGGGAGAGAATAAACTCCAGCGA  
 GATCCGGGCCGTGAACGAAAGCAGTGACGGAGGAGCTTGTACCACGGTAACTAAATGAC  
 CATGGAATCTGGAGCCGAGAACCAGCAGAGTGGAGATGCAGCTGTAACAGAAGCTGAAAA  
 CCAACAAATGACAGTTCAAGCCAGCCACAGATTGCCACATTAGCCAGGTATCTATGCC  
 AGCAGCTCATGCAACATCATCTGCTCCCACCGTAACTCTAGTACAGCTGCCCAATGGGCA  
 GACAGTTCAAGTCCATGGAGTCATTAGCGCGGCCAGCCATCAGTTATTAGTCTCCACA  
 AGTCCAAACAGTTCAGATTTCAACTATTGCAGAAAGTGAAGATTCACAGGAGTCAGTGGA  
 TAGTGTAAGTATTCCCAAAAGCGAAGGAAATCTTTCAAGGAGGCCTTCTACAGGAA  
 AATTTTGAATGACTTATCTTCTGATGCACCAGGAGTGCCAAGGATTGAAGAAGAGAAGTC  
 TGAAGAGGAGACTTCAGCACCTGCCATCACCACTGTAAACGGTGCCAACTCCAATTTACCA  
 NACTAGCAGTGGACAGTATATTGCCATTACCCAGGGGAGGAGCATACAGCTGGCTAACAA  
 TGGTACCGATGGGGTACAGGGCCCTGCAACATTAACCATGACCAATGCAGCAGCCACTCA  
 GCCGGTACTACATTCTACAGTATGCACAGACCACTGATGGACAGCAGATCTTAATGCC  
 CAGCACCCAGTTGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004379 unedited  
 CTATGAACGCGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTAAGATAACTGTT  
 AGATTTATCGAGCTTAGTGAATAAAATGAGTAACAATTAAGTGGTATTGAAAACAATG  
 TATGATATACACAAATACAGACTGTTTTAATCAGGAATTAATAAAATGACAAAGG  
 CTATACAGCATATTGGAAAGCTAAAGCAGAATAAATACTACTTTTTTACAAGAGAACA  
 AAAAAATGTTTTGTAAGAATGACAATCCAATATTGCAGTACAGCAGTCATTCAATATG  
 TCTGAAAATAACTTTCTTGTGCACATCTAACACTGTACTTTTTATATCCTTACAACCTC  
 TTTCAATTAATAAAATTTACTAGAGATTCTCTGTTAAATGTTAATATGGAAAATATTTAA  
 AATCAGTATTTTTCTACATGTAACATTTTATAAACAATATATATCACTTTGCTTTATTT  
 GACATCTTGAAGGCTTTCTTGGTGGTATGTAAGTGCAATGGGCAACAGTAAATTAGA  
 AATATCTTTTTACGTAATGAGTGACAATATAAATATTTTTGAAGGTGAGGACAATAACA  
 TTTATTTAAAAATCTTGTATATAACTCAAGGGATTGGTTACTGATCAGCATTTTACTA  
 AGAATTTAGTACTAACTAAAATATGCTNTGTACTTTTTATTTACTTTGCTTTAATTTAAAA  
 TTCAAATACCATGCTTTGCGTTCAGTTGGTTACTTCTTTAATGTATTCAAAAATGTTG  
 AACACATACAGAACTGAATAAAAAGCACAACCTGCCCTATGGAAGAGCTGTATTAGTACAG  
 AATGCTTTTAAGAACCAAGGACANATTNTCAGTNNTGNAGAAGACAACATACATAAAAGCC  
 CTAATTCATTCTAATCCTTCATACATGCTAAAGTCTTTTAGAGGGATGTCTTAACAAC  
 TACTATTCATGAGAGGGACACAGTCATTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004379

**Insert Size:**

2690 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).

<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="#">NM_004379.2</a> , <a href="#">NP_004370.1</a>
<b>RefSeq Size:</b>	2964 bp
<b>RefSeq ORF:</b>	984 bp
<b>Locus ID:</b>	1385
<b>UniProt ID:</b>	<a href="#">P16220</a>
<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 (1, also known as A) lacks an alternate in-frame exon compared to variant 2. The resulting isoform (A) has the same N- and C-termini but is shorter compared to 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>