

## Product datasheet for SC119296

### CREBL2 (NM\_001310) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CREBL2 (NM_001310) Human Untagged Clone
Tag:	Tag Free
Symbol:	CREBL2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119296 sequence for NM_001310 edited (data generated by NextGen Sequencing)

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ATGGATGACAGTAAGGTGGTTGGAGGCAAAGTAAAGAAGCCCGGTAACCGTGGTCGGAAG
CCAGCCAAAATTGACTTGAAAGCAAACCTTGAGAGGAGCCGGCAGAGTGCAAGAGAATGC
CGAGCCCAGAAAAAGCTGAGATATCAGTATTTGGAAGAGTTGGTATCCAGTCGAGAAAGA
GCTATATGTGCCCTCAGAGAGGAACTGGAAATGTACAAGCAGTGGTGCATGGCAATGGAC
CAAGGAAAAATCCCTTCTGAAATAAAGGCCCTACTCACTGGAGAAGAGCAGAACAATCT
CAGCAGAACTCAAGCAGGCATACCAAGGCTGGGAAGACAGATGCTAATAGCAATTCCTGG
TGA
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Clone variation with respect to NM\_001310.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001310 unedited GTAACACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCTCTGCCATTCTG AACTGGTCCCTCGTCCCCGTGACTCTGGCATCAGGGAAGCGAACTGTTAGGCGAGAGGAG GAGGCAGCCAGAACCATATCCCCCTTCTCCTCGGGCGGGGGCCGGGCCAGGCCGCTGA GCCGGGGAGGGCTCCGGGAGGGAGTGCCTGGCCAGGCCGGCCTGTCTGCCGCGATGGAT GACAGTAAGGTGGTTGGAGGCAAAGTAAAGAAGCCCGGTAACCGTGGTCGGAAGCCAGCC AAAATTGACTTGAAAGCAAACCTTGAGAGGAGCCGGCAGAGTGCAAGAGAATGCCGAGCC CGAAAAAGCTGAGATATCAGTATTTGGAAGAGTTGGTATCCAGTCGAGAAAGAGCTATA TGTGCCCTCAGAGAGGAACTGGAAATGTACAAGCAGTGGTGCATGGCAATGGACCAAGGA AAAATCCCTTCTGAAATAAAGGCCCTACTCACTGGAGAAGAGCAGAACAATCTCAGCAG AACTCAAGCAGGCATACCAAGGCTGGGAAGACAGATGCTAATAGCAATTCCTGGTGAAGA TTATATAAAGATGAGTCAGTGATTGAAGCCAATATTCTGATTCCCATGGAAGATGGATGG GCAAGAGTGTACTTCTGGCTCCATTTACTACCTACTGCTCAGTAGTCATCTCTGTAAT CTGCAATTTCTACCANAATGTGTGATCGTAGATCTCAAAGGGATCTGCTNNTAACTNTCA CACTTAGAAATNCTACCAACATTAGACCTGTCTGGGNTTGTATTGNACCCCATGACNAT TNAACATGTTGTGATGCTTNGAAACACANGAGTAGAGAAAATCGATGAAGATTGATTTTT TGCACCTNAACTCCACATNGCTTTATGGNNTN
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001310 unedited AATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAATCAGTGACATTTATTAACATGCTTC AAAAGTGACCAAAGTGTCCAGCCAGCACAAATAGCCGAGGCAATCAACGTTCTCTTAGTGT GTGATCTCCTCCAAAACACCAAATAAATAGGTTTAGGAATAACCTCAAATAAATTGTAAT TTAACTTCGCCAAAATTATACATCCTCTACTGCTCTTCCCTGCTCCTGTAAAGATACTA GCGGGAGGGGAGAAAAGCTCAAATGACTCTGTAATTTAGAATTACAACCAGAGAAGAAATA CTTCAAGCACAAATAAGACGTTCCATTGAAGAGCGACATTCATTCTGGAATGTTTGT GAAAACAACCTCTTCTGGGGGAATTCAAAAGGTAAGTGAACAAAGCAACATAAAGTAAGTTT TGGGTTATTTTGCAAAATAAAAATATACAATTGAGTGGACCAGATGGCAAAAACATACCA ATTACAATCTGAATGCTATATTTAAAACCTTAAATTCTGAAGGCCTGAATATCAACAAA CCTATTTATGTTTATGATCCTAAAAGACATTAATATTATTAACCCCAACTTTCAA ACATAGAGACCCAGCAAAGTGGCTAGTGGTATCTCAGTACACAGTCACACATGACTAGA CTAGACTAGACTAGACTAGACTAGATCTGAGTTTGCAACCAAGTACAAGAAGGCTTT AGGAGCTCAGGCTAAGGGAGGCACTTTATCAATGCATGCCCTGANAAAGAGGAAAGTA CCTCGTATCCTAAACTATGTGGCCATCATATATCTACCTCAAGACATCTAGACACCGTAT CTCCTCTTAACTGCCAGTCAGAACAATACTTTATTTGAGCTAAATATTGCTTCCCTC AGTGGAGAATAATTAGCAGCGACGAGACCAACTCTGTTTAACTGGAAGAAAAGAAA AGGGTAGTTTCTCCTTGGGAATCCAAAGATTCTGCCTCGTCTGCGGTATAATT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001310
<b>Insert Size:</b>	2950 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="#">NM_001310.2</a> , <a href="#">NP_001301.1</a>
<b>RefSeq Size:</b>	3748 bp
<b>RefSeq ORF:</b>	363 bp
<b>Locus ID:</b>	1389
<b>UniProt ID:</b>	<a href="#">O60519</a>
<b>Cytogenetics:</b>	12p13.1
<b>Protein Families:</b>	Transcription Factors

**Gene Summary:**

cAMP response element (CRE)-binding protein-like-2 (CREBL2) was identified in a search to find genes in a commonly deleted region on chromosome 12p13 flanked by ETV6 and CDKN1B genes, frequently associated with hematopoietic malignancies, as well as breast, non-small-cell lung and ovarian cancers. CREBL2 shares a 41% identity with CRE-binding protein (CREB) over a 48-base long region which encodes the bZip domain of CREB. The bZip domain consists of about 30 amino acids rich in basic residues involved in DNA binding, followed by a leucine zipper motif involved in protein dimerization. This suggests that CREBL2 encodes a protein with DNA binding capabilities. The occurrence of CREBL2 deletion in malignancy suggests that CREBL2 may act as a tumor suppressor gene. [provided by RefSeq, Jul 2008]