

## Product datasheet for **SC108995**

### Calretinin (CALB2) (NM\_007087) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calretinin (CALB2) (NM_007087) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calretinin
Synonyms:	CAL2; calbindin 2; calbindin 2, (29kD, calretinin); calbindin D29K; calretinin
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_007087, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGGCCCGCAGCAGCAGCCCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAA  
TATGGAAGCACTTTGACGCAGACGGAAATGGGTATATTGAAGGTAAGAGCTAGAAAACCTTTTCCAAGA  
GCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACCTTTGGAGAAAAGATGAAGGAG  
TTCATGCAGAAGTATGATAAAAACCTCAGATGGGAAAATCGAGATGGCAGAGCTGGCGCAGATCCTGCCAA  
CCGAAGAGAACTCCTTCTGTGCTTCAGGCAGCACGTGGGCTCCAGCGCCGAGTTTATGGAGGCTTGCCG  
GAAGTACGACACAGACAGGAGTGGCTACATCGAAGCCAATGAGCTCAAGGGATTCCTGTCAGACCTGCTG  
AAGAAGGCGAACC GGCCGTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTG  
ACTTGAACGGGGATGGCAAATTGGGCCTCTCAGAGATGTCCC GGCCATGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_007087 unedited            TCAAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGCCAGCCGGCG            CGGAGCGGGAGCGGTGCAGGCTGAGGTCTCCGAGCGGCTCGCCATGGCTGGCCCCGAGCA            GCAGCCCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAATATGGAA            GCACCTTGACGCAGACGGAAATGGGTATATTGAAGGTAAGAGCTAGAAAACCTTTTCCA            AGAGCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACCTTTGGAGA            AAAGATGAAGGAGTTCATGCAGAAGTATGATAAAAACTCAGATGGGAAAAATCGAGATGGC            AGAGCTGGCGCAGATCCTGCCAACCGAAGAGAACTTCCTTCTGTGCTTCAGGCAGCACGT            GGGCTCCAGCGCCGAGTTTATGGAGGCTCGGCGGAAGTACGACACAGACAGGAGTGGCTA            CATCGAAGCCAATGAGCTCAAGGGATTCTGTGACACCTGCTGAAGAAGGCGAACCGGCC            GTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTGACTTGAA            CGGNGATGGCAAATTTGGCCTCTCAGAGATGTCCCGACTCTGCCTGTCCAGGAAAACCTT            CCTGCTTAAATTTAGGGCATGAAGCTGACCTCAGAGGAGTTTAAACGCGATCTTCACATT            TTACGACAAGGATAGAAGCGGCTACATTGACGAGCATGAGCTGGATGCCCTTTTGAAGGA            TCTGTACGAGAAAAACANANAGGAAATGAATATTCAACAGCTCACCAACTACAGAAAGAG            CGTCATGTCTTTGGGAGAGCAGGNAAGCTCTACCGCAAGGGACCTGNNAGATGTGCTCT            GCAGCGAGCCCCCATGTAAGGGGGGACGGGGGCTGGTNNNTNNACTNCCCAAANCCCT            GCTNTGCTGNCCTGATA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_007087 unedited            CGCAATCTAGAGTCGAGTNTT            TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAGTCCAAAAAAGGACCTTCCATTTTATT            GCGGAAAACCTTTTTTGGGAAACAAAAACCCAAAAAAGGGCCCCCCCCATTAA            AAAAGGCAAGGAAAGGGGGGGCCTTCCACACACAGGATTTTTGAAAGGACACCTCCCC            CCTTGGCAAGGGGGGGATGGAACCCGAAATTTGGGGGGGGGGGGCATGGGGGACCC            GCAAAGGGGACCCAAAGGAAAAATCCCCTTTGTGGGACATAAAACCTAAATCATACCG            GGGGGGAGCTCATGCCTCACAGCGAAAAAATTAGGGACCTCCACCCATGCCCCATAA            CCTTTCATGGGGGGACCCACTGAACAAAAACTGCCTGGGAGGGGGGGTGAAGGGGC            TAAAGAAAACCCCATTTGCCATCCTTATTTTTTTGTTTCTGCCCTGAAAGCAGGTG            TTTCCAAGCTGTAAAGGTGGGGGGGGGGCGCTCACGGTCTTTGATTCTGGGTAACCCCT            CAAGGCAACAAAACAGGTTTGGGGGAGGGGAAAAATCACCCCTCCCCTTTAATAG            GGGGCTCCTGAAAAACAATATCCAAGTCTTGGGGAAAACTCCCCTCCCCTTGCAAA            GAAAAACCTTTTTTGAATGGGGGAGACGAAAAATTCATTTCTTTTGGTTTTTTTCGAA            AACCTTAAAGGCACCCCTCTTCCCAAAGGTCCCCTCTTTCTTGGGAAAAAGGAAA            AACCGGAAAACCCCGGAGGGCCTTTCCCTCAAATTAACAGAAATTTCTGCAAGCAGA            GATGGAATTTGAAGCCCAATTGCCTCCCGTCAAAAAACCCAAATGGGTGGGGTTCT            GAACCGGGCA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007087
<b>Insert Size:</b>	1640 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).

**Reconstitution Method:**

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\\_007087.1](#), [NP\\_009018.1](#)

**RefSeq Size:** 1413 bp

**RefSeq ORF:** 540 bp

**Locus ID:** 794

**Cytogenetics:** 16q22.2

**Domains:** EFh

**Gene Summary:** This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]

Transcript Variant: This variant (CALB2b) lacks an alternate segment in the 3' coding region which results in a frameshift and an early stop codon, compared to variant 1. The resulting protein (isoform 20k) has a shorter and distinct N-terminus when it is compared to isoform 1.