

## Product datasheet for **SC108994**

### Calretinin (CALB2) (NM\_001740) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calretinin (CALB2) (NM_001740) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calretinin
Synonyms:	CAB29; CAL2; CR
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108994 sequence for NM_001740 edited (data generated by NextGen Sequencing)

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ATGGCTGGCCCGCAGCAGCAGCCCCCTTACCTGCACCTGGCCGAGCTGACGGCGTCCCAG
TTCCTGGAAATATGGAAGCACTTTGACGCAGACGAAATGGGTATTGAAGGTAAGAG
CTAGAAAACCTTTTCCAAGAGCTGGAGAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAG
AGTGACAACCTTTGGAGAAAAGATGAAGGAGTTCATGCAGAAGTATGATAAAAACCTCAGAT
GGGAAAATCGAGATGGCAGAGCTGGCGCAGATCCTGCCAACCGAAGAGAACCTTCTTCTG
TGCTTCAGGCAGCACGTGGGCTCCAGCGCCGAGTTTATGGAGGCTYGGCGGAAGTACGAC
ACAGACAGGAGTGGCTACATCGAAGCCAATGAGCTCAAGGGATTCTGTGACACCTGCTG
AAGAAGGCGAACC GGCCGTACGATGAGCCCAAGCTCCAGGAATACACCCAAACCTACTA
CGGATGTTTGACTTGAACGGGGATGGCAAATTGGGCCTCTCAGAGATGTCCCGACTCCTG
CCTGTCCAGGAAAACCTTCTGTAAATTCAGGGCATGAAGCTGACCTCAGAGGAGTTT
AACGCGATCTTACATTTTACGACAAGGATAGAAGCGGCTACATTGACGAGCATGAGCTG
GATGCCCTTTTGAAGGATCTGTACGAGAAAAACAAAAAGGAAATGAATATTCAACAGCTC
ACCAACTACAGAAAGAGCGTCAATGTCCTTGGCAGAGGCAGGGAAGCTCTACCGCAAGGAC
CTGGAGATTGTGCTCTGCAGCGAGCCCCCATGTAA
```

Clone variation with respect to NM\_001740.4  
346 t=>y



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001740 unedited  GTCAGGATATGTATACGACTCCTATAGGCGGCCGCGCAATTCGCACGAGGGCGGAGCGGG  AGCGGTGCAGGCTGAGGTCTCCGAGCGGCTCGCCATGGCTGGCCCGCAGCAGCAGCCCC  TTACCTGCACCTGGCCGAGCTGACGGCGTCCCAGTTCCTGGAAATATGGAAGCACTTTGA  CGCAGACGGAAATGGGTATATTGAAGGTAAGAGCTAGAAAACCTTTTCCAAGAGCTGGA  GAAGGCAAGGAAAGGCTCTGGCATGATGTCAAAGAGTGACAACCTTTGGAGAAAAGATGAA  GGAGTTTCATGCAGAAGTATGATAAAAACTCAGATGGGAAAATCGAGATGGCAGAGCTGGC  GCAGATCCTGCCAACCGAAGAGAACTTCCTTCTGTGCTTCAGGCAGCACGTGGGCTCCAG  CGCCGAGTTTATGGAGGCTTGGCGGAAAGTACGACACAGACAGGAGTGGCTACATCGAAGC  CAATGAGCTCAAGGGATTCTGTGACACCTGCTGAAGAAGGCGAACCGGCCGTACGATGA  GCCCAAGCTCCAGGAATACACCCAAACCATACTACGGATGTTTGACTTGAACGGGGATGG  CAAATTGGGCCTCTCAGAGATGTCCGACTCCTGCCTGTCCAGGAAAACCTCCTGCTTAA  ATTTCAAGGCATGAAGCTGACCTCAGAGGAGTTTAAACGCGATCTTACATTTTACGACAA  GGATAGAAGCGGCTACATTGACGAGCATGAGCTGGATGCCCTTTTGAAGGATCTGTACGA  GAAAAACANAAAGGAATGAATATTCAACAGCTCACCAACTACAGAAAGAGCGTCATGTCC  TTGGNCAGAGCACGGNAAGCTCTACCGCAAGGACCTGGAGTATGTCTCTGCAGCGAGCC  CCCATGTAAGTGGGGGACG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_001740 unedited  CGCGGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATTTCCACAGCAGGACCTTTCCATTTTATTG  GCTGGAACTTTTTTTTGGGAAACAAAAACCCAAAAAAGGGCCCCCCCCAGTAAA  AAAGGCAAGGAAAGGGCGGTGCCTTCCACACACAGGAGTTTTGAAAGGACACCTCCCC  ATTGGCAAGGGGGGGATGGAACCTGAAAATTTGGGGGGGTGGGGGCATGGGGGACCCG  CAAAGGGGACCCAAAGGGAAAAATCCCCTTTGTTGGACATAAAACCCATAATCATACAGC  GAGGGAGCTCATGCCTCACAGCGAAAAAATTAGGGACCTCCACCCATGCCCCATAAC  CTTTATGTGGGGGAACCACTGAACAAAACTTCTGGGCAGGGGTGGGTGCAAGGGGCT  TAAGACAACCCCCAATTGCCATCCTTTATTTTTGTTTCTGCTTTTCAGGCAAGTGT  GTGCAAGCTTTAAGGGTGGGGCGGGCCCTCACGGTCTTTGAGTCTGGGTAAACCCATC  AGGGCAACAAAACAGGGTTTGGGGAGGGGAAAAACAACCCCGTCCCCACTTTAATG  GGGGCTCGCTGCAACACAATTTCCAGTCTTGGCGGAAAACCTCCCTGCCTTGCCA  AGGACATGACACTTTTTTTGTAANTGGGGAGCCGGGAGAAATTCATTTCCCTTTTGTT  TTCTCGAACAGAACCTTCAAAGGCATTAGCTCATGCTTGNAATGANCCGCTTTTATC  CTTGTCGAAAAAGGGAAGATCCCGTAACTCCTTGGGTCCACTTATGCCCGAAATTAACA  GGAAGTCTCGAAGGCAGAGTCGGGATCTTGA</p>
<b>Restriction Sites:</b>	ECoRI-NOT
<b>ACCN:</b>	NM_001740
<b>Insert Size:</b>	1500 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\\_001740.2](#), [NP\\_001731.1](#)

**RefSeq Size:** 1453 bp

**RefSeq ORF:** 816 bp

**Locus ID:** 794

**UniProt ID:** [P22676](#)

**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 (1) encodes the longer isoform (isoform 1), which has also been designated as the full-length isoform.