

## Product datasheet for SC119400

### Calumenin (CALU) (NM\_001219) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calumenin (CALU) (NM_001219) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calumenin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119400 sequence for NM_001219 edited (data generated by NextGen Sequencing)

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ATGGACCTGCGACAGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTGCCTTGAGCAA
CCACAGAAAAGAAGGACCGTGTACATCATGAGCCTCAGCTCAGTGACAAGGTTCACAAT
GATGCTCAGAGTTTTGATTATGACCATGATGCCTTCTTGGGTGCTGAAGAAGCAAAGACC
TTTGATCAGCTGACACCAGAAGAGAGCAAGGAAAGGCTTGAAAGATTGTAAGTAAAATA
GATGGCGACAAGGACGGGTTTGTCACTGTGGATGAGCTCAAAGACTGGATTAATTTGCA
CAAAAGCGCTGGATTTACGAGGATGTAGAGCGACAGTGGAAAGGGCATGACCTCAATGAG
GACGGCCTCGTTTCCTGGGAGGAGTATAAAAATGCCACCTACGGCTACGTTTTAGATGAT
CCAGATCCTGATGATGGATTTAACTATAAACAGATGATGGTTAGAGATGAGCGGAGGTTT
AAAATGGCAGACAAGGATGGAGACCTCATTGCCACCAAGGAGGAGTTCACAGCTTTCCTG
CACCTGAGGAGTATGACTACATGAAAGATATAGTAGTACAGGAAACAATGGAAGATATA
GATAAGAATGCTGATGGTTTCATTGATCTAGAAGAGTATATTGGTGACATGTACAGCCAT
GATGGGAATACTGATGAGCCAGAATGGGTAAAGACAGAGCGAGAGCAGTTTGTGAGTTT
CGGGATAAGAACCGTGATGGGAAGATGGACAAGGAAGAGACCAAAGACTGGATCCTTCCC
TCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACCTGGTCTATGAATCAGACCAAAAC
AAGGATGGCAAGCTTACCAAGGAGGAGATCGTTGACAAGTATGACTTATTTGTTGGCAGC
CAGGCCACAGATTTTGGGAGGCCTTAGTACGGCATGATGAGTTCTGA

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Clone variation with respect to NM\_001219.4



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_001219 unedited  
 GGACTACGGATTTTGTAAACCACTTTATATAGGGCGGCCGACGCTTCGGCACGAGGGTGA  
 GCTGATCCGGTGGGTGAGCGCGGCCACGGCATCCTGTGCTGTGGGGGCTACGAGGAAAG  
 ATCTAATTATCATGGACCTGCGACAGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTG  
 CCTTGAGCAAACCCACAGAAAAGAAGACCGTGTACTTTGTAGCCTCAGCTCAGTGACAA  
 GGTTACAATGATGCTCAGAGTTTTGATTATGACCATGATGCCTTCTTGGGTGCTGAAGA  
 AGCAAAGACCTTTGATCAGCTGACACCAGAAGAGAGCAAGGAAAGGCTTGGAAAGATTGT  
 AAGTAAAATAGATGGCGACAAGGACGGGTTTGTACTGTGGATGAGCTCAAAGACTGGAT  
 TAAATTTGCACAAAAGCGCTGGATTTACGAGGATGTAGAGCGACAGTGGAAAGGGCATGA  
 CCTCAATGAGGACGGCTCGTTTCTGGGAGGAGTATAAAAATGCCACCTACGGCTACGT  
 TTTAGATGATCCAGATCCTGATGATGGATTTAACTATAAACAGATGATGGTTAGAGATGA  
 GCGGAGGTTTAAAATGGCAGACAAGGATGGAGACCTCATTGCCACCAAGGAGGAGTTCAC  
 AGCTTTCCTGCACCCTGAGGAGTATGACTACATGAAAGATATAGTAGTACAGGACACAAT  
 GGAAGATATAGATAAGAATGCTGATGGTTTCATTGATCTAGAAAGTATATTGGTGACATG  
 TACAGCCATGATGGGAATACTGATGAGCCAAAATGGGTAAGACAGAGCGAGAGCAGTTT  
 GTTGAGTTTCGGGATAAGAACCCTGATGGGTAGATGGACANGAAAGAGACCAAGACTGGA  
 TCCTTTCCTCAGATATGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_001219 unedited  
 TAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGCAGCGGGAGAGGGAAAGAGGAGGAAATGG  
 GGTGTGATGGGTCAAAGGCAGGAAAGGTAAGCCATGGTCTCAAACCAAAGAGCCCTCTC  
 TGTAGGTCCTCTGATCTTTGAGTGTGAGCTCAAGCTCTCCAGTGGACACAGAAAAAGGCC  
 TGGTAGTAAGTGGTTTGCATTGTGAGGTATGAGGATCCCTGGTAAATTCAGCAGCATGTG  
 GTTTTGGAAATCAGCCACAAGATAAGAACAAGTCAACCAAACTCATAACTAATACTGC  
 TAATTTAACCTATTTGTCCAAAAGAGAAAGGGAAGAAAGAAAAAATCCCCACTCTACTGG  
 GAGGTTCTAGGCTTTCCTATAAGTTATCCAAATAGTCTTTTTTTAATCTCAGGTTTCTT  
 AAGAGAATTTCCATTGACGATGACCATTTCTTTCGTTAAAGGCACTTTCAATGACATGATTG  
 GAAAGGAGTGAATTTAATTGTAGTGAAACCAAGATTAATTCCTTGGCACACCTGNGAAG  
 AAGAGGAACCGGATGGNGGCATTTACAGTGATTTCAAAGGCAATATTAAGTCTTGAGCA  
 TTTAACAGATCACACCCAGAAAAATGTTGCCCGAAACACTTGATTTTTCTTAGTTTTN  
 CAGCTGTTCTATTATAGCTTGAAGAGATACATTCCTACTGATGATNTCAGACACTGCCT  
 ACTCTTACACACTGGCTGACAAATAGCACAGTAGTCTCAGGGGAAAGAGAAATCATTGG  
 CCAGCTTCTAAGCAAGACTTCTGCCAGTATGGCAGTCATGCTGACTTACACTGAGTATA  
 GGGCCCTCTAGATGTGACTTTGCGCACATATGTCCTTAATAATGGACTATTTTTCTC  
 CTTTCGATTTTTGACCGCTCANTATAAGGATTTAACTAGGTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001219

**Insert Size:**

2590 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>	<u>NM_001219.2, NP_001210.1</u>
<b>RefSeq Size:</b>	3320 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	813
<b>UniProt ID:</b>	<u>O43852</u>
<b>Cytogenetics:</b>	7q32.1
<b>Domains:</b>	EFh
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	<p>The product of this gene is a calcium-binding protein localized in the endoplasmic reticulum (ER) and it is involved in such ER functions as protein folding and sorting. This protein belongs to a family of multiple EF-hand proteins (CERC) that include reticulocalbin, ERC-55, and Cab45 and the product of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (1) encodes the predominant isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>