

## Product datasheet for **SC122857**

### **CALML5 (NM\_017422) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** CALML5 (NM\_017422) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CALML5  
**Synonyms:** CLSP  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene sequence for NM\_017422 edited

```
AGACGCTGCCCGATCCCTGCGGCTGCCTGCACTCTGGACCACGAGCTCTGAGAGCAGCA  
GGTTGAGGGCCGGTGGGCAGCAGCTCGGAGGCTCCGCGAGGTGCAGGAGACGCAGGCATG  
GCCGGTGAGCTGACTCCTGAGGAGGAGGCCAGTACAAAAAGGCTTTCTCCGCGGTTGAC  
ACGGATGGAAACGGCACCATCAATGCCCAGGAGCTGGCGCGGCGCTGAAGGCCACGGGC  
AAGAACCTCTCGGAGGCCAGCTAAGGAACTCATCTCCGAGGTTGACGGCGACGGCGAC  
GGCGAAATCAGCTTCCAGGAGTTCCTGACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAG  
GACCTGCAGGTCGCCTTCCGCGCCTTCGACCAGGATGGCGACGGCCACATCACCGTGGAC  
GAGCTCAGGCGGGCCATGGCGGGCTGGGGCAGCCGCTGCCGAGGAGGAGCTGGACGCC  
ATGATCCGCGAGGCCGACGTGGACCAGGACGGCGGGTGAACACGAGGAGTTCCGCGAGG  
ATGCTCGCCAGGAGTGAGGCTCCCCGCCTGTGTCCCCCTGGCTGCGCTCTGAGCCTTCA  
GGGCCACCGCCCGCTGCTGCTTTTGTGCTGGGACTCTCCGGGAAACCTGGTCGGTGGAT  
GGGAAACTGCCTCCCCCTGGGAGGAAGGCTTTGCGCTCCGGGGCCTGGATGCGGCGCCCT  
CGGGCCGCTGCGAGCCCTCTCTGCCTCCAGACCTTGGGCAGAAGGAGGCTCCTTGGG  
CCTGGTCCCCCTTTGCCCTGCAGTGAATGAGGGCCCCTCAGCCCCGATTGATCTAAAT  
AAAGGACTGCCGAGTTCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG
```



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_017422 unedited NNGGGTGTGNTTTTTGTATACGACTCCTATAGGCGGCCGCGNAATTCCTCCGGATAGACGC TGCCCCGATCCCTGCGGCTGCCTGCACTCTGGACCACGAGCTCTGAGAGCAGCAGGTTGA GGGCCGGTGGGCAGCAGCTCGGAGGCTCCGCGAGGTGCAGGAGACGCAGGCATGGCCGGT GAGCTGACTCCTGAGGAGGAGGCCAGTACAAAAAGGCTTCTCCGCGTTGACACGGAT GGAAACGGCACCATCAATGCCAGGAGCTGGGCGCGCGCTGAAGGCCACGGGCAAGAAC CTCTCGGAGGCCAGCTAAGGAACTCATCTCCGAGGTTGACGGCGACGGCGACGGCGAA ATCAGTTCCAGGAGTTCCTGACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAGGACCTG CAGGTCGCCTTCCGCGCCTTCGACCAGGATGGCGACGGCCACATCACCGTGGACGAGCTC AGGCGGGCCATGGCGGGGCTGGGGCAGCCGCTGCCGAGGAGGAGCTGGACGCCATGATC CGCGAGGCCGACGTGGACCAGGACGGGCGGGTGAACACTACGAGGAGTTCGCGAGGATGCTC GCCCAGGAGTGAGGCTCCCCGCCTGTGTCCCCTGGCTGCGCTCTGAGCCTTCAGGGCCA CCGCCCGTGTCTTTGTGCTGGGACTCTCCGGGAAACCTGGTCGGTGGATGGGAAA CTGCTCCCCTGGNAGGAAGGCTNTGCGCTCCGGGGCCTGGATGCNCGCCCTCGGGCC GNCTGCGAGCCCCTCTGCCTCCAGACCTTTGGCAGAANGGAGCCTNNCTGGNCCTGT CCCCCTTGCCCTGCAGTGAATGAGGGCCCTCAGCCCGCATTGATCTAAATAAAGACT G
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017422
<b>Insert Size:</b>	891 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>RefSeq:</b>	<a href="#">NM_017422.3</a> , <a href="#">NP_059118.1</a>
<b>RefSeq Size:</b>	854 bp
<b>RefSeq ORF:</b>	441 bp
<b>Locus ID:</b>	51806
<b>UniProt ID:</b>	<a href="#">Q9NZT1</a> , <a href="#">Q53H37</a>
<b>Protein Pathways:</b>	Alzheimer's disease, Calcium signaling pathway, Glioma, GnRH signaling pathway, Insulin signaling pathway, Long-term potentiation, Melanogenesis, Neurotrophin signaling pathway, Olfactory transduction, Oocyte meiosis, Phosphatidylinositol signaling system, Vascular smooth muscle contraction
<b>Gene Summary:</b>	This gene encodes a novel calcium binding protein expressed in the epidermis and related to the calmodulin family of calcium binding proteins. Functional studies with recombinant protein demonstrate it does bind calcium and undergoes a conformational change when it does so. Abundant expression is detected only in reconstructed epidermis and is restricted to differentiating keratinocytes. In addition, it can associate with transglutaminase 3, shown to be a key enzyme in the terminal differentiation of keratinocytes. [provided by RefSeq, Jul 2008]