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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
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_017422 edited AGACGCTGCCCGGATCCCTGCGGCTGCCTGCACTCTGGACCACGAGCTCTGAGAGCAGCA GGTTGAGGGCCGGTGGGCAGCAGCTCGGAGGCTCCGCGAGGTGCAGGAGACGCAGGCATG GCCGGTGAGCTGACTCCTGAGGAGGAGGCCCAGTACAAAAAGGCTTTCTCCGCGGTTGAC ACGGATGGAAACGGCACCATCAATGCCCAGGAGCTGGGCGCGGCGCTGAAGGCCACGGGC AAGAACCTCTCGGAGGCCCAGCTAAGGAAACTCATCTCCGAGGTTGACGGCGACGGCGAC GGCGAAATCAGCTTCCAGGAGTTCCTGACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAG GACCTGCAGGTCGCCTTCCGCGCCTTCGACCAGGATGGCGACGGCCACATCACCGTGGAC GAGCTCAGGCGGGCCATGGCGGGGCTGGGGCAGCCGCTGCCGCAGGAGGAGCTGGACGCC ATGATCCGCGAGGCCGACGTGGACCAGGACGGGCGGGTGAACTACGAGGAGTTCGCGAGG ATGCTCGCCCAGGAGTGAGGCTCCCCGCCTGTGTCCCCCTGGCTGCGCTCTGAGCCTTCA GGGCCACCGCCCGCTGCTGCTTTTGTGCTGGGACTCTCCGGGGAAACCTGGTCGGTGGAT GGGAAACTGCCTCCCCCTGGGAGGAAGGCTTTGCGCTCCGGGGCCTGGATGCGGCGCCCT CGGGCCGCCTGCGAGCCCCTCTCTGCCTCCAGACCTTGGGCAGAAGGAGGCCTCCTTGGG CCTGGTCCCCCTTTGCCCTGCAGTGGAATGAGGGCCCCTCAGCCCCGCATTGATCTAAAT AAAGGACTGCCGAGTTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017422 unedited
NNGGGTGTTGNTTTTTGTATACGACTCCTATAGGCGGCCGCGNAATTCCCGGATAGACGC
TGCCCGGATCCCTGCGGCTGCCTGCACTCTGGACCACGAGCTCTGAGAGCAGCAGGTTGA
GGGCCGGTGGGCAGCAGCTCGGAGGCTCCGCGAGGTGCAGGAGACGCAGGCATGGCCGGT
GAGCTGACTCCTGAGGAGGAGGCCCAGTACAAAAAGGCTTTCTCCGCGGTTGACACGGAT
GGAAACGGCACCATCAATGCCCAGGAGCTGGGCGCGGCGCTGAAGGCCACGGGCAAGAAC
CTCTCGGAGGCCCAGCTAAGGAAACTCATCTCCGAGGTTGACGGCGACGGCGACGGCGAA
ATCAGCTTCCAGGAGTTCCTGACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAGGACCTG
CAGGTCGCCTTCCGCGCCTTCGACCAGGATGGCGACGGCCACATCACCGTGGACGAGCTC
AGGCGGGCCATGGCGGGGCTGGGGCAGCCGCTGCCGCAGGAGGAGCTGGACGCCATGATC
CGCGAGGCCGACGTGGACCAGGACGGGCGGGTGAACTACGAGGAGTTCGCGAGGATGCTC
GCCCAGGAGTGAGGCTCCCCGCCTGTGTCCCCCTGGCTGCGCTCTGAGCCTTCAGGGCCA
CCGCCCGCTGCTGCTTTTGTGCTGGGACTCTCCGGGGAAACCTGGTCGGTGGATGGGAAA
CTGCCTCCCCCTGGNAGGAAGGCTNTGCGCTCCGGGGCCTGGATGCNGCGCCCTCGGGCC
GNCTGCGAGCCCCTCTCTGCCTCCAGACCTTTGGCAGAANGGAGCCTNNCTGGNCCCTGT
CCCCCCTTGCCCTGCAGTGGAATGAGGGCCCCTCAGCCCGCATTGATCTAAATAAAGACT
G

Restriction Sites: Please inquire

ACCN: NM_017422

Insert Size: 891 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).

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_017422.3, NP_059118.1

RefSeq Size: 854 bp

RefSeq ORF: 441 bp

Locus ID: 51806

UniProt ID: Q9NZT1

Cytogenetics: 10p15.1

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Protein Pathways: 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

Gene Summary: 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]

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