

## Product datasheet for **RG204372**

### **CALML5 (NM\_017422) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CALML5 (NM\_017422) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CALML5  
**Synonyms:** CLSP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204372 representing NM\_017422  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGTGAGCTGACTCCTGAGGAGGAGGCCAGTACAAAAAGGCTTTCTCCGCGTTGACACGGATG  
GAAACGGCACCATCAATGCCAGGAGCTGGGCGCGCGCTGAAGGCCACGGGCAAGAACCTCTCGGAGGC  
CCAGCTAAGGAACTCATCTCCGAGTTGACGGCGACGGCGACGGCGAAATCAGCTTCCAGGAGTTCCTG  
ACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAGGACCTGCAGGTCGCCTTCCGCGCTTCGACCAGGATG  
GCGACGGCCACATCACCGTGGACGAGCTCAGGCGGGCCATGGCGGGGCTGGGGCAGCCGCTGCCGCAGGA  
GGAGCTGGACGCCATGATCCGCGAGGCCGACGTGGACCAGGACGGCGGGTGAACACTACGAGGAGTTCGCG  
AGGATGCTCGCCAGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG204372 representing NM\_017422  
**Red**=Cloning site **Green**=Tags(s)

MAGELTPEEEAQYKAFSAVDTDNGTINAQELGAALKATGKNLSEAQLRKLISEVDGDGDGEISFQEFL  
TAARKARAGLEDLQVAFRAFDQDGDGHITVDELRRAMAGLQGPLPQEELDAMIREADVDQDGRVNYEEFA  
RMLAQE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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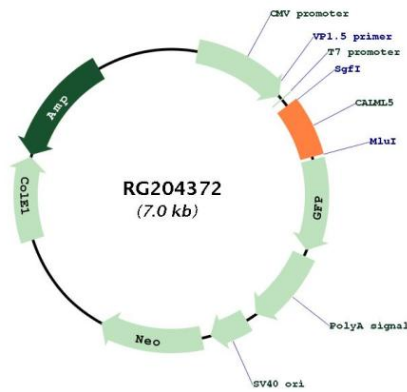


**Cytogenetics:** 10p15.1

**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]

**Product images:**



Circular map for RG204372