

Product datasheet for RG204372

CALML5 (NM_017422) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

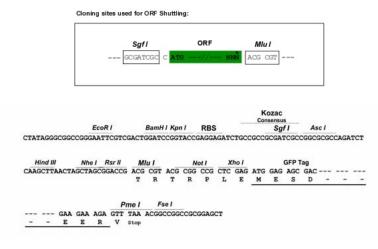
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Product Type:	Expression Plasmids
Product Name:	CALML5 (NM_017422) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CALML5
Synonyms:	CLSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG204372 representing NM_017422 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCCGGTGAGCTGACTCCTGAGGAGGAGGACGCCCAGTACAAAAAGGCTTTCTCCGCGGTTGACACGGATG GAAACGGCACCATCAATGCCCAGGAGCTGGGCGCGGGGGCGCGAAGGCCACGGGCAAGAACCTCTCGGAGGC CCAGCTAAGGAAACTCATCTCCCGAGGTTGACGGCGACGGCGACGGCGAAATCAGCTTCCAGGAGTTCCTG ACGGCGGCAAGGAAGGCCAGGGCCGGCCTGGAGGACCTGCAGGTCGCCTTCCGCGCCTTCGACCAGGATG GCGACGGCCACATCACCGTGGACGAGCTCAGGCGGGGCCATGGCGGGGCTGGGGCAGCCGCTGCCGCAGGA GGAGCTGGACGCCATGATCCGCGAGGCCGACGTGGACCAGGACGGGCGGG
	ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
Protein Sequence:	<pre>>RG204372 representing NM_017422 Red=Cloning site Green=Tags(s)</pre>
	MAGELTPEEEAQYKKAFSAVDTDGNGTINAQELGAALKATGKNLSEAQLRKLISEVDGDGDGEISFQEFL TAARKARAGLEDLQVAFRAFDQDGDGHITVDELRRAMAGLGQPLPQEELDAMIREADVDQDGRVNYEEFA RMLAQE
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:

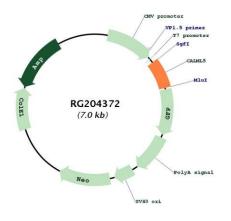


ACCN:	NM_017422
ORF Size:	438 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 017422.3, NP 059118.1</u>
RefSeq Size:	854 bp
RefSeq ORF:	441 bp
Locus ID:	51806
UniProt ID:	<u>Q9NZT1</u>

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ORIGENE CALML5 (NM_017422) Human Tagged ORF Clone – RG204372		
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

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