

## Product datasheet for MR228233

### Calu (NM\_001285412) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Calu (NM\_001285412) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Calu  
**Synonyms:** 9530075H20Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228233 representing NM\_001285412  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGGTCAGAGATGAGCGGAGGTTTAAAATGGCAGACAAGGATGGAGACCTAATTGCCACAAAGGAAG  
AGTTCACAGCTTTCCTGCACCCTGAGGAATATGACTACATGAAAGACATAGTCGTGCAGGAAACCATGGA  
GGATATAGACAAGAATGCTGATGGGTTTCATTGATCTAGAGGAGTACATTGGTGACATGTACAGTCATGAT  
GGGAATGCTGATGAGCCAGAGTGGGTGAAGACAGAGCGAGAACAGTTCGTGGAGTTTCGAGATAAGAACC  
GGGATGGGAAGATGGACAAGGAAGAGACAAAGACTGGATCCTCCCTCAGACTATGACCATGCAGAGGC  
AGAAGCCAGGCATCTGGTCTATGAGTCAGACAAAACAAGGATGGCAAGCTCACCAAGGAGGAGATTGTC  
GACAAGTATGATTTATTTGTGGGCAGCCAGGCCACAGATTTCCGGGGAGGCCTTAGTACGACATGATGAGT  
TC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR228233 representing NM\_001285412  
Red=Cloning site Green=Tags(s)

MMVRDERRFKMADKDGDLIATKEEFTAFLLHPEEYDYMKDIVVQETMEDIDKNADGFIDLEEYIGDMYSHD  
GNADEPEWVKTEREQFVEFRDKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQNKDGKLTKEEIV  
DKYDLFVGSQATDFGEALVRHDEF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

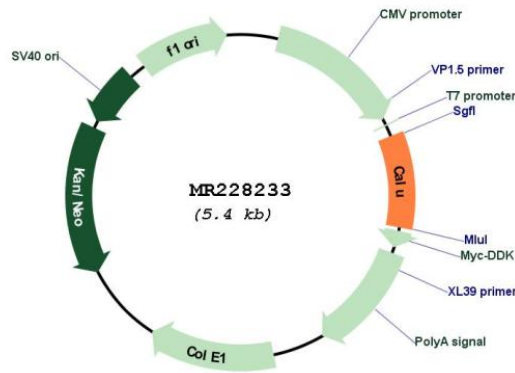


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001285412

ORF Size: 492 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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><a href="#">NM_001285412.1</a></u> , <u><a href="#">NP_001272341.1</a></u>
<b>RefSeq Size:</b>	3046 bp
<b>RefSeq ORF:</b>	495 bp
<b>Locus ID:</b>	12321
<b>Cytogenetics:</b>	6 A3.3
<b>MW:</b>	19.9 kDa
<b>Gene Summary:</b>	Involved in regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. Seems to inhibit gamma-carboxylase GGCX. Binds 7 calcium ions with a low affinity (By similarity).[UniProtKB/Swiss-Prot Function]