

## Product datasheet for **MG219228**

### Calu (NM\_184053) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calu (NM_184053) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Calu
Synonyms:	9530075H20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219228 representing NM_184053 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCTGCGTCAGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTGCTTTGAGCAAGCCTACAGAAA  
AGAAGGACCGAGTACACCATGAGCCTCAGCTCAGCGATAAAGTTCACAATGATGCTCAGAATTTTGACTA  
TGACCATGATGCCTTCTGGGTGCAGAAGAGGCAAAGAGTTTTGATCAGCTGACACCAGAAGAGAGCAAG  
GAAAGGCTTGAATGATTGTAGATAAAATAGACGCGGATAAAGATGGGTTTGTGACGGAGGGGGAGCTGA  
AATCCTGGATTAAGCACGCCAGAAGAAATACATTTATGACAATGTTGAAAACCAAGTGGCAGGAGTTTGA  
TATGAATCAAGACGGCTTAATCTCCTGGGATGAGTACAGAAACGTGACTTATGGCACTTACTTTGGATGAT  
CCAGATCCTGATGATGGATTTAATTATAAACAGATGATGGTCAGAGATGAGCGGAGGTTTAAATGGCAG  
ACAAGGATGGAGACCTAATTGCCACAAAGGAAGAGTTCACAGCTTTCCTGCACCCTGAGGAATATGACTA  
CATGAAAGACATAGTCGTGCAGGAAACCATGGAGGATATAGACAAGAATGCTGATGGGTTTATTGATCTA  
GAGGAGTACATTTGGTGCATGTACAGTCATGATGGGAATGCTGATGAGCCAGAGTGGGTGAAGACAGAGC  
GAGAACAGTTCGTGGAGTTTCGAGATAAGAACCAGGATGGGAAGTGGACAAGGAAGAGACCAAAGACTG  
GATCCTCCCCTCAGACTATGACCATGCAGAGGCCAGAAGCCAGGCATCTGGTCTATGAGTCAGACCAAAC  
AAGGATGGCAAGCTCACCAAGGAGGAGATTGTCGACAAGTATGATTTATTTGTGGCAGCCAGGCCACAG  
ATTTCCGGGAGGCCTTAGTACGACATGATGAGTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219228 representing NM\_184053  
Red=Cloning site Green=Tags(s)

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHND AQNFYDHD AFLGAE EAKSFDQLTP EESK  
 ERLGMI VDKIDADK DGFVTEGELKSWIKHAQKKYIYDNVENQWQEFDMNQDGLISWDEYRNVTYGTYLDD  
 PDPDDGFNYKQMMVRDERRFKMADKDGDLIATKEEFT AFLHP E EYDYMKD I VVQETMEDIDKNADGFIDL  
 EEYIGDMYSHDGN ADEPEWVKTEREQFVEFRDKNRD GKMDKEETKDWILPSDYDHAEAEARHLVYESDQN  
 KDGKLTKEEIVDKYDLFVGSQATDFGEALVRHDEF

TRTRPLE - GFP Tag - V

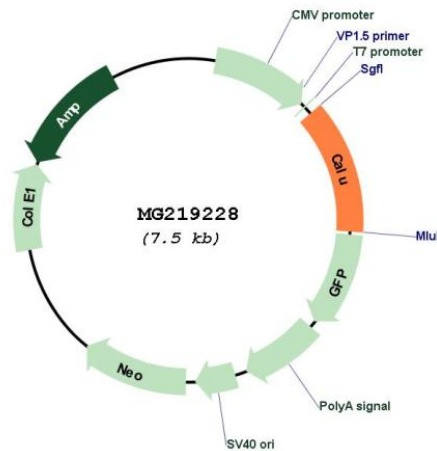
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_184053

**ORF Size:** 945 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_184053.3</a> , <a href="#">NP_908942.1</a>
<b>RefSeq Size:</b>	3216 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	12321
<b>Cytogenetics:</b>	6 A3.3
<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]