

Product datasheet for **MC226022**

Calu (NM_001285412) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calu (NM_001285412) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Calu
Synonyms:	9530075H20Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC226022 representing NM_001285412 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATGGTCAGAGATGAGCGGAGGTTTAAATGGCAGACAAGGATGGAGACCTAATTGCCACAAAGGAAG
AGTTCACAGCTTTCCTGCACCCTGAGGAATATGACTACATGAAAGACATAGTCGTGCAGGAAACCATGGA
GGATATAGACAAGAATGCTGATGGGTTTCATTGATCTAGAGGAGTACATTGGTGACATGTACAGTCATGAT
GGGAATGCTGATGAGCCAGAGTGGGTGAAGACAGAGCGAGAACAGTTCGTGGAGTTTCGAGATAAGAACC
GGGATGGGAAGATGGACAAGGAAGAGACAAAGACTGGATCCTCCCTCAGACTATGACCATGCAGAGGC
AGAAGCCAGGCATCTGGTCTATGAGTCAGACAAAACAAGGATGGCAAGCTCACCAAGGAGGAGATTGTC
GACAAGTATGATTTATTTGTGGGCAGCCAGGCCACAGATTTTCGGGGAGGCCTTAGTACGACATGATGAGT
TCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001285412
Insert Size:	495 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).



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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001285412.1</u> , <u>NP_001272341.1</u>
RefSeq Size:	3046 bp
RefSeq ORF:	495 bp
Locus ID:	12321
Cytogenetics:	6 A3.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) contains an alternate splice site in the 5' coding region, resulting in a distinct 5' UTR and initiation of translation from a downstream start codon, compared to variant 1. It encodes isoform 3, which is shorter at the N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>