

Product datasheet for MR219228

Calu (NM_184053) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calu (NM_184053) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calu
Synonyms:	9530075H20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219228 representing NM_184053 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTGCGTCAGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTGCTTTGAGCAAGCCTACAGAAA
AGAAGGACCGAGTACACCATGAGCCTCAGCTCAGCGATAAAGTTCACAATGATGCTCAGAATTTTGACTA
TGACCATGATGCCTTCTGGGTGCAGAAGAGGCAAAGAGTTTTGATCAGCTGACACCAGAAGAGAGCAAG
GAAAGGCTTGAATGATTGTAGATAAAATAGACGCGGATAAAGATGGGTTTGTGACGGAGGGGGAGCTGA
AATCCTGGATTAAGCACGCCCAGAAGAAATACATTTATGACAATGTTGAAAACCAAGTGGCAGGAGTTTGA
TATGAATCAAGACGGCTTAATCTCCTGGGATGAGTACAGAAACGTGACTTATGGCACTTACTTTGGATGAT
CCAGATCCTGATGATGGATTTAATTATAAACAGATGATGGTCAGAGATGAGCGGAGGTTTAAATGGCAG
ACAAGGATGGAGACCTAATTGCCACAAAGGAAGAGTTCACAGCTTTCCTGCACCCTGAGGAATATGACTA
CATGAAAGACATAGTCGTGCAGGAAACCATGGAGGATATAGACAAGAATGCTGATGGGTTTCATTGATCTA
GAGGAGTACATTTGGTGACATGTACAGTCATGATGGGAATGCTGATGAGCCAGAGTGGGTGAAGACAGAGC
GAGAACAGTTCGTGGAGTTTCGAGATAAGAACCAGGATGGGAAGATGGACAAGGAAGAGACCAAAGACTG
GATCCTCCCCTCAGACTATGACCATGCAGAGGCAGAAGCCAGGCATCTGGTCTATGAGTCAGACCAAAC
AAGGATGGCAAGCTCACCAAGGAGGAGATTGTCGACAAGTATGATTTATTTGTGGCAGCCAGGCCACAG
ATTTCCGGGAGGCCTTAGTACGACATGATGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219228 representing NM_184053
Red=Cloning site Green=Tags(s)

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHND AQNFYDHD AFLGAE EAKSFDQLTP EESK
 ERLGMI VDKIDADK DGFVTEGELKSWIKHAQKKYIYDNVENQWQEFDMNQDGLISWDEYRNVTYGT YLDD
 PDPDDGFNYKQMMVRDERRFKMADKDGDLIATKEEFT AFLHP E EYDYMKD I VVQETMEDIDKNADGFIDL
 EEYIGDMYSHDGN ADEPEWVKTEREQFVEFRDKNRDGKMDKEETKDWILP SDYDHAEAEARHLVYESDQN
 KDGKLTKEEIVDKYDLFVGSQATDFGEALVRHDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9057_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_184053

ORF Size: 945 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.

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:

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: [NM_184053.3](#), [NP_908942.1](#)

RefSeq Size: 3229 bp

RefSeq ORF: 948 bp

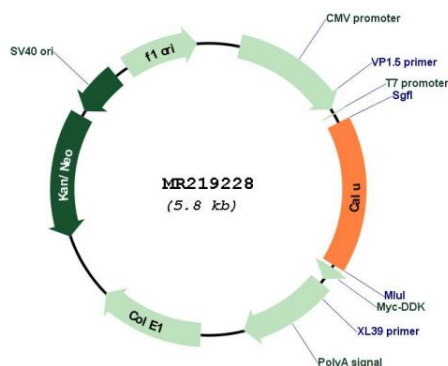
Locus ID: 12321

Cytogenetics: 6 A3.3

MW: 37.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR219228