

Product datasheet for **MR204503**

Calu (NM_007594) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calu (NM_007594) 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: >MR204503 representing NM_007594
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTGCGTCAGTTTCTTATGTGCCTGTCCCTGTGCACAGCCTTTGCTTTGAGCAAGCCTACAGAAA
AGAAGGACCGAGTACACCATGAGCCTCAGCTCAGCGATAAAGTTCACAATGATGCTCAGAATTTTGACTA
TGACCATGATGCCTTCTGGGTGCAGAAGAGGCAAAGAGTTTTGATCAGCTGACACCAGAAGAGAGCAAG
GAAAGGCTTGAAAGATTGTAAGTAAAAATAGATGACGACAAGGATGGGTTTGTACTGTGGATGAACTCA
AAGGCTGGATTAAGTTTGCACAAAAGCGCTGGATTCACGAGGATGTAGAGCGGCAATGGAAGGGCACGA
CCTCAATGAGGATGGCCTCGTTTTCTGGGAGGAGTATAAAAATGCCACCTACGGCTACGTTTTAGATGAT
CCAGATCCTGATGATGGATTTAATTATAAACAGATGATGGTCAGAGATGAGCGGAGGTTTAAAATGGCAG
ACAAGGATGGAGACCTAATTGCCACAAAGGAAGAGTTCACAGCTTTCCTGCACCCTGAGGAATATGACTA
CATGAAAGACATAGTCGTGCAGGAAACCATGGAGGATATAGACAAGAATGCTGATGGGTTTCATTGATCTA
GAGGAGTACATTTGGTGACATGTACAGTCACGATGGGAATGCTGATGAGCCAGAGTGGGTGAAGACAGAGC
GAGAACAGTTCGTGGAGTTTCGAGATAAGAACCAGGATGGGAAGTGGACAAGGAAGAGACCAAAGACTG
GATCCTCCCCTCAGACTATGACCATGCAGAGGCAGAAGCCAGGCATCTGGTCTATGAGTCAGACCAAAC
AAGGATGGCAAGCTCACCAAGGAGGAGATTGTCGACAAGTATGATTTATTTGTGGCAGCCAGGCCACAG
ATTTCCGGGAGGCCTTAGTACGACATGATGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204503 representing NM_007594
Red=Cloning site Green=Tags(s)

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHND AQNFYDHD AFLGAEAEAKSFDQLTP EESK
 ERLGKIVSKIDDDK DGFVTVD ELKGWIKFAQKRWIHEDVERQWKGHDLNEDGLVSWEEYKNATYGYVLDD
 PDPDDGFNYKQMMVRDERRFKMADKGD L IATKEEFT AFLHP E EYDYMKD I VVQETMEDIDKNADGFIDL
 EEYIGDMYSHDGN ADEPEWVKTEREQFV EFRDKNRD GKMDKEETKDWILPSDYDHAEAEARHLVYESDQN
 KDGKLTKEEIVDKYDLFVGSQATDFGEALVRHDEF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007594

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_007594.2](#)

RefSeq Size: 3216 bp

RefSeq ORF: 948 bp

Locus ID: 12321

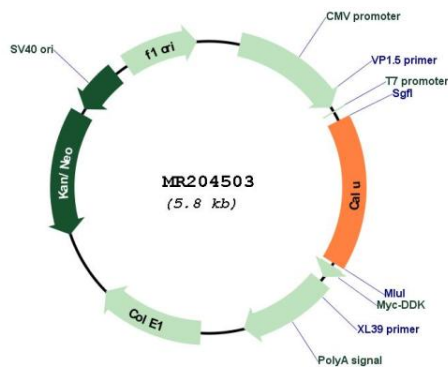
UniProt ID: [O35887](#)

Cytogenetics: 6 A3.3

MW: 37.5 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 MR204503