

Product datasheet for **RR216338**

Calu (NM_001033898) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Calu (NM_001033898) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Calu
Synonyms: Cbp50; Rcn
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216338 representing NM_001033898
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACCTGCGTCAGTTTCTTATGTGCCTGTCCCTGTGCACGGCCTTTGCTTTGACGAAGCCTACAGAAA
AGAAGGACCGAGTACACCATGAACCTCAGCTCAGCGACAAAGTTCACAACGATGCTCAGAATTTTGACTA
TGACCATGATGCCTTCTGGGAGCAGAAGAGGCAAGAGTTTTGATCAGCTGACACCAGAAGAGAGCAAG
GAAAGGCTTGAATGATTGTAGATAAAATAGACACCGATAAAGATGGGTTTGTGACGAAGGGGAGCTGA
AGTCCTGGATTAAGCACGCCCAGAAGAAATACATATATGACAATGTTGAAAACCAAGTGGCAGGAGTTTGA
TATGAATCAAGACGGCTTAATCTCCTGGGATGAGTACAGAAACGTGACTTATGGCACTTACCTGGATGAT
CCAGACCCTGATGATGGATTTAATTATAAACAGATGATGGTTAGAGATGAGCGGAGGTTCAAAATGGCAG
ACAAAGATGGAGACCTAATTGCCACAAAGGAGGAGTTTACCGCTTTTCTGCACCTGAGGAATATGACTA
CATGAAAGACATAGTCGTGCAGGAAACCATGGAGGATATAGACAAGAATGCTGATGGTTTTATTGATCTA
GAAGAGTATATTGGTGACATGTACAGTCATGATGGAAATGCTGATGAACCAGAGTGGTGAAGACAGAGC
GGGAGCAGTTTCGTTGAGTTTCGAGATAAGAACCAGGATGGAAAGATGGACAAGGAAGACCAAAAGACTG
GATCCTCCCTCAGACTATGACCATGCAGAGGCCGAAGCCAGGCATCTCGTCTATGAGTCCGACCAAGAC
AAGGATGGCAAGCTACCAAGGAGGAGATTGTCGACAAGTATGATTTATTGTGGCAGCCAGGCCACAG
ATTTCCGGGAGGCCTTAGTACGACACGATGAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216338 representing NM_001033898
 Red=Cloning site Green=Tags(s)

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHND AQNFDYDHDAFLGAEAEKSFQDLPTEESK
 ERLGMIVDKIDTDKDFVTKGELKSWIKHAQKKYIYDNVENQWQEFDMNQDGLISWDEYRNVTYGTYLDD
 PDPDDGFNYKQMMVRDERRFKMADKDGDLIATKEEFTAF LHP E EYDYMKDIVVQETMEDIDKNADGFIDL
 EEYIGDMYSHDGNADPEWVKTEREQFVEFRDKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQD
 KDGKLTKEEIVDKYDLFVGSQATDFGEALVRHDEF

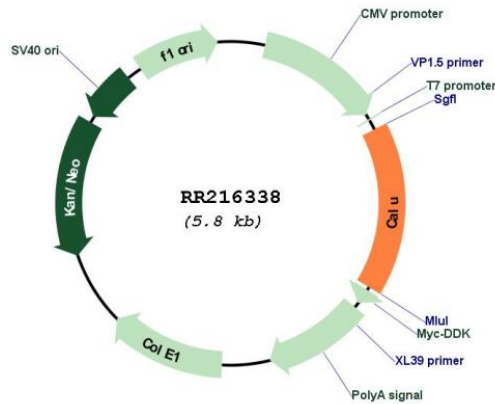
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033898

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:	<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:	NM_001033898.1 , NP_001029070.1
RefSeq Size:	3203 bp
RefSeq ORF:	948 bp
Locus ID:	64366
Cytogenetics:	4q22
MW:	37.1 kDa
Gene Summary:	binds calcium; localized to the endoplasmic reticulum lumen [RGD, Feb 2006]