

## Product datasheet for **RR200317**

### Calu (NM\_022535) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calu (NM_022535) 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:	>RR200317 representing NM_022535 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCTGCGTCAGTTTCTTATGTGCCTGTCCCTGTGCACGGCCTTTGCTTTGAGCAAGCCTACAGAAA  
AGAAGGACCGAGTACACCATGAACCTCAGCTCAGCGACAAAGTTCACAACGATGCTCAGAATTTTGACTA  
TGACCATGATGCCTTCTGGGAGCAGAAGAGGCAAGAGTTTTGATCAGCTGACACCAGAAGAGAGCAAG  
GAAAGGCTTGAAAGATTGTAATAAAATAGATGGCGACAAGGATGGGTTTGTCAGTGTGGATGAACTCA  
AAGGCTGGATTAAGTTTGACAAAAGCGCTGGATTCACGAGGATGTAGAGCGGCAGTGGAAAGGGCACGA  
CCTCAATGAGGATGGCTCGTTTCTGGGAGGAGTATAAAAATGCCACCTACAGCTACGTTTATGATGAT  
CCAGACCCTGATGATGGATTTAATTATAAACAGATGATGGTTAGAGATGAGCGGAGGTTCAAAATGGCAG  
ACAAAGATGGAGACCTAATTGCCACAAAGGAGGAGTTTACCGCTTTTCTGCACCTGAGGAATATGACTA  
CATGAAAGACATAGTCGTGCAGGAAACCATGGAGGATATAGACAAGAATGCTGATGGTTTTATTGATCTA  
GAAGAGTATATTGGTGACATGTACAGTCATGATGGAAATGCTGATGAACCAGAGTGGTGAAGACAGAGC  
GGGAGCAGTTTCGTTGAGTTTCGAGATAAGAACCAGGATGGAAAGATGGACAAGGAAGACCAAAAGACTG  
GATCCTCCCTCAGACTATGACCATGCAGAGGCCGAAGCCAGGCATCTCGTCTATGAGTCCGACCAAGAC  
AAGGATGGCAAGCTACCAAGGAGGAGATTGTCGACAAGTATGATTTATTTGTGGCAGCCAGGCCACAG  
ATTTCCGGGAGGCCTTAGTACGACACGATGAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200317 representing NM\_022535  
 Red=Cloning site Green=Tags(s)

MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHND AQNFYDHD AFLGAE EAKSFDQLTP EESK  
 ERLGKIVNKIDGDKDGFVTVD ELKGWIKFAQKRWIHEDVERQWKGHDLNEDGLVSWE EYKNATYSYV LDD  
 PDPDDGFNYKQMMVRDERRFKMADKDGDLIATKEEFT AFLHP E EYDYM KDIVVQETMEDIDKNADGFIDL  
 EEYIGDMYSHDGN ADEPEWVKTEREQFVEFRDKNRDGKMDKEETKDWILPSDYDHAEAEARHLVYESDQD  
 KDGKLTKEEIVDKYDLFVGSQATDFGEALVRHDEF

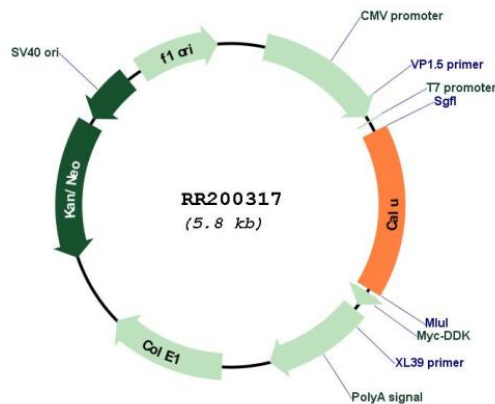
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_022535

**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_022535.2</a> , <a href="#">NP_071980.2</a>
<b>RefSeq Size:</b>	3203 bp
<b>RefSeq ORF:</b>	948 bp
<b>Locus ID:</b>	64366
<b>Cytogenetics:</b>	4q22
<b>MW:</b>	37.1 kDa
<b>Gene Summary:</b>	binds calcium; localized to the endoplasmic reticulum lumen [RGD, Feb 2006]