

Product datasheet for **RC231628**

CAMTA1 (NM_001242701) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CAMTA1 (NM_001242701) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CAMTA1
Synonyms: CANPMR
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231628 representing NM_001242701
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGCGCGGGAGGGAAATGGCTGCCGAAACAAGCCGGAAGAGCGTTTCCCAAAGTATTCTGCG
GAACTAGCACCTACTGTGTTCTCAACACCGTGCCACCTATAGAAGATGATCATGGGAACAGCAATAGTAG
TCATGTAAAAATCTTTTACCGAAAAGCTGCTTGAATGTCTGCCGAAATGTTCAAGTTTACAAAAGAG
AGGCACCGCTGGAACACTAATGAGGCTCTCACCACACACTTGTTTCATGGGCGCAGCAAAGAAGAGGGATC
CACAGAGCTGGAGCCATGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231628 representing NM_001242701
Red=Cloning site Green=Tags(s)

MWRAEGKWLPKTSRKSQSVFCSTYCVLNTVPPIEDDHGNSNSSHVKIFLPKLLLECLPKCSSLPKE
RHRWNTNEALTTFLFMGAACKRDPQWSHEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

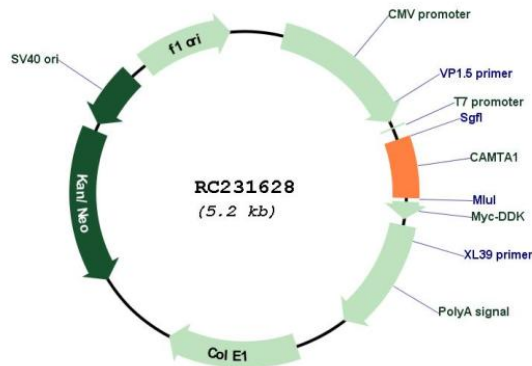


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001242701

ORF Size: 303 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:	<u>NM_001242701.1</u> , <u>NP_001229630.1</u>
RefSeq Size:	997 bp
RefSeq ORF:	306 bp
Locus ID:	23261
UniProt ID:	<u>Q9Y6Y1</u>
Cytogenetics:	1p36.31-p36.23
Protein Families:	Transcription Factors
MW:	11.9 kDa
Gene Summary:	The protein encoded by this gene contains a CG1 DNA-binding domain, a transcription factor immunoglobulin domain, ankyrin repeats, and calmodulin-binding IQ motifs. The encoded protein is thought to be a transcription factor and may be a tumor suppressor. However, a translocation event is sometimes observed between this gene and the WWTR1 gene, with the resulting WWTR1-CAMTA1 oncoprotein leading to epithelioid hemangioendothelioma, a malignant vascular cancer. [provided by RefSeq, Mar 2017]