

Product datasheet for **SC329312**

CAMTA2 (NM_001171168) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMTA2 (NM_001171168) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMTA2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001171168, the custom clone sequence may differ by one or more nucleotides

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ATGGGCACAGACTCCCCCTCCCCCGGCCCTCAGGCCGGGGGTGACCTTGCCCCCTGGA
GCCCTCACCATGAATACCAAGGACACCACCGAGTTGCTGAAAACAGCCACCACCTGAAG
ATCTTTCTCCCCAAGAAGCTGCTGGAGTGTCTTCTCGCTGCCCGCTGCTGCCTCCAGAG
AGGCTACGGTGGAAATACAAATGAGGAGATTGCATCCTACCTGATCACCTTTGAGAAGCAT
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AATCGAAGAAGGTGAAATATCGGAAGGATGGTTACCTCTGGAAGAAGCGGAAGGATGGG
AAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCCAGGGCATGGAGAACCCTGACATC
GTCCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGAAAGGGCTGCAGCCCC
ATCTTTTGTTCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTG
TTGGGACAGCTGAAGCCCATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAA
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CCCCGAACCCACGCTGTCTCTGCAAGTGGGGGGCTTGGTTCTGGGAGCCTTACCCACAAA
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GAGCTCCCCAAGGCACACACCTCCCCATCTTCTCCTCTTCTCCTCCTCATCAGTTTTT
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GGCACTGCTATCCTCCTCCTGACAGGACTGGAGCAGCGGGCTGGAGGCTTGACGCCACC
AGGCACCTGGCTCCACAGGCTGATCCTAGGCCTTCCATGAGTTTGGCAGTGGTTGTAGGC
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AACAGCCCCCAGAGGGGCCAGACATATGGAGGGGGCAGGGAGTAAGCCCAGACTTCCCC
GAGGCAGAGGGCCGCTCATACCCCTGTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAGCCC
CAGGCAGCTGCTCGGGTCCCCACCACAGTCAGTAGCAGGTGGGAGAAGAGGAAACTGC
TTCTTCATCCAAGATGATGACAGTGGGGAGGAGCTCAAGGTCACGGGGCTGCCCAACC
ATACCTTACCCCTCCCTCACCCCCACCTCACCTGCCCCCTTGAGCCGTCAAGCAGG
GTAGGAAGAGGAGAGGCCTTGTGGAGGACCTGTTGGGGCCAGTGAAGTGGAGCCCTTC
AGTCTTTTCATCATTCCCAGACCTTATGGGAGAACTCATCAGTGACGAAGCTCCAAGCATC
CCTGCTCCGACCCCCAGCTGTCTCCTGCTTGTAGCACCATCACAGACTTCTCCCCAGAG

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TGGTCCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCCTTGGACCGAAGCCGCC
 GAGCATTACTCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGTCCAGCCTGGT
 GTCTTACGCTGCTACTGTCCCGCCATGAGGTAGGGCTGGTGTCTTTGCAGGTGGCAGGG
 CGGGAGGGGCCCTTTCTGCTTCTGTGCTCTTTGAGTATCGAGCCCGCCGATTCTGTCT
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 TACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAGCAGCAGCTGTAATCCAGCGCTGT
 TACCGGAAGTACAAGCAGCTGACCTGGATTGCACTTAAGTTTGCCTCTATAAGAAGATG
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 ACCAAGAAGCAGGACCAGGCAGCCCGAAGATCATGAGATTCTCGGGCGCTGCCGACAC
 AGGATGAGGGAAGTGAAGCAGAACCAGGAGCTGGAAGGGCTTCCCAGCCGGGACTGGCC
 ACATGA

- Restriction Sites:** Please inquire
- ACCN:** NM_001171168
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001171168.1](#), [NP_001164639.1](#)

RefSeq Size: 4782 bp

RefSeq ORF: 3606 bp

Locus ID: 23125

UniProt ID: [O94983](#)

Cytogenetics: 17p13.2

Gene Summary: The protein encoded by this gene is a member of the calmodulin-binding transcription activator protein family. Members of this family share a common domain structure that consists of a transcription activation domain, a DNA-binding domain, and a calmodulin-binding domain. The encoded protein may be a transcriptional coactivator of genes involved in cardiac growth. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jan 2010]

Transcript Variant: This variant (3) differs in the 5' UTR, has multiple differences in the coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.