

Product datasheet for **RG213620**

CAMTA2 (NM_015099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMTA2 (NM_015099) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAMTA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213620 representing NM_015099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATACCAAGGACACCACCGAGGTTGCTGAAAACAGCCACCACCTGAAGATCTTTCTCCCAAGAAGC
TGCTGGAGTGTCTTCTCGCTGCCCGTCTGCTCCAGAGAGGCTACGGTGAATACAAATGAGGAGAT
TGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGTGGCTGTCTTGTGCCCAAGACAAGGCCTCAG
AATGGCTCCATCATCTCTACAATCGAAGAAGGTGAAATACGGAAGGATGGTTACCTCGAAGAAGC
GGAAGGATGGGAAGACCACCCGAGAGGACACATGAAGCTGAAGGTCCAGGGCATGGAGTCTCTATGG
CTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGTCTACTGGCTGCCAGAACCCTGAC
ATCGTCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGAAAAGGGCTGCAGCCCCATCTTTT
GTTCCATCAGCAGCGACCGTCCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTTGGGACAGCTGAAGCC
CATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGCAG
CAGATTTTGGACACCCACCAACCAAGCCTGCTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGCTTG
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CCCTAGAAATCAGACCTAGCCCTCCACTTCTCGAGGGGTTCTCAAGAGGAGGACTGCTATCCTCCT
CCTGACAGGACTGGAGCAGCGGGCTGGAGGCTTGACGCCACCCAGGCACTTGGCTCCACAGGCTGATCCT
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CCTTTGACCCTGATCGTTTTCTCAACAGCCCCAGAGGGGCCAGACATATGGAGGGGGCAGGGAGTAAG
CCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCTGTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAG
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TCAGTGACGAAGCTCCAAGCATCCTGCTCCGACCCCCAGCTGTCTCCTGCTCTTAGCACCATCACAGA



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CTTCTCCCAGAGTGGTCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCTTGGACCGAAGCC
GCCGAGCATTACTCTGTGTCTTTGATCACATCGCAGTCCAGCCTCACTTGTCCAGCCTGGTGTCTTAC
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CCTGCCCTCCCACCAGCTTCAGATGATGGGGTCTCCAGAGGACGCTGACAGCCACAGGCTGTGGATG
TGATCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGGAGCGGATTAACGAGA
GGACTTCGTGGGGCTGCCCGAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAG
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TGCCCTTTGAGCGAGGTGCCTGGCTGTCCCTCAGCACCTCTGGGAGAGTTTCTCTCTGCATCCAC
CAGTGGCAAGATGGAAGTGATTTTCCCTGCTGACACTATCAGATCACGAGCAGCGGAACTGTATGAG
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CTCCCCACCGACTTCGGCCACCCTGCCTGCCGCAACAAGGCTCCTTTCTACCAAGAAGCAGGACCA
GGCAGCCCGAAGATCATGAGATTCTGCGGGCTGCCGACACAGGATGAGGGAAGTGAAGCAGAACCAG
GAGCTGGAAGGGCTTCCCAGCCGGACTGGCCACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG213620 representing NM_015099
 Red=Cloning site Green=Tags(s)

MNTKDTTEVAENSHHLKIFLPKLLLECLPRCPLLPPELRWNTNEEIASYLITFEKHDEWLSAPKTRPQ
 NGSIIILYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCELYGCVVHSSIVPTFHRCYWLQNPD
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 QILDTHPTKPAPRTHACLCSGGLGSGSLTHKCSSTKHRIISPKVEPRALTLTSIPHAHPPEPPPLIAPLP
 PELPKAHTSPSSSSSSSGFAEPLAIRSPPTSRGGSSRGGTAIIILLTGLEQRAGGLTPTRHLAPQADP
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 GPVGASELEPFSLSSFPDLMGELISDEAPSIAPTPQLSPALSTITDFSPESYPEGGVKVLITGPWTEA
 AEHYSCVFDHIAVPASLVQPGVLRICYCPAHEVGLVSLQVAGREGPLSASVLFYRARRFLSLPSTQLDWL
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 ERLAHGSPFRGMSLLHLAAAQGYARLIETLSQWRSVETGSLDLEQEVDPLNVDHF SCTPLMWACALGHLE
 AAVLLFRWNRQALSIPDSLGRPLPLVAHSRGHVRLARCLEELQRQEPSVEPPFALSPPSSSPDTGLSSVS
 SPSELSDGTFSVTSAYSSAPDGSPPPAPLPASEMTPMEDMAPGQLSSGVPEAPLLMLDYEATNSKGPLSSL
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 TMSWLASYLENDHFPSTPPSELPFERGLAVPSAPSWAEFLSASTSGKMESDFALLTSDHEQRELYE
 AARVIQTAFRKYKGRRLKEQQEVAAAVIQRCYRYKQLTWIALKFALYKKMTQAAIILQSKFRSYEYQKR
 FQSSRAAVLIQQHYRSYRRRPGPPHRTSATLPARNKGSFLTKKQDQAARKIMRFLRRCRHRMRELKQNQ
 ELEGLPQPLAT

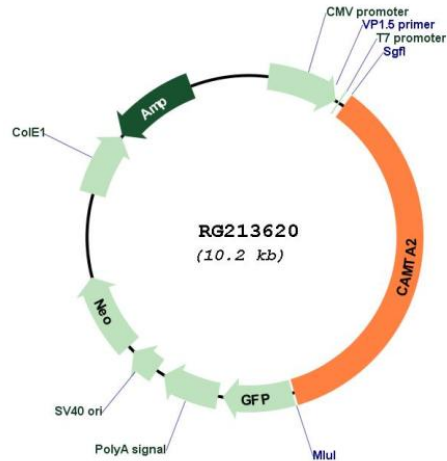
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_015099

ORF Size: 3606 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_015099.4](#)

RefSeq Size: 4475 bp

RefSeq ORF: 3609 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]