

## Product datasheet for **RG230679**

### CAMTA2 (NM\_001171167) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CAMTA2 (NM_001171167) 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:	>RG230679 representing NM_001171167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCACAGACTCCCCCTCCCCCGGCCCTCAGGCCGGGGTGACCTTGCCCCCTGGAGCCCTCACCA  
TGAATACCAAGGACACCACCGAGTTGCTGAAAACAGCCACCCTGAAGATCTTTCTCCCCAAGAAGCT  
GCTGGAGTGTCTTCTCGCTGCCCGCTGCTGCCTCCAGAGAGGCTACGGTGAATACAAATGAGGAGATT  
GCATCCTACCTGATCACCTTTGAGAAGCATGATGAGTGGCTGTCTTGCCCCAAAGACAAGGCCCTCAGA  
ATGGCTCCATCATCTCTACAATCGAAGAAGGTGAAATATCGGAAGGATGGTTACCTCTGGAAGAAGCG  
GAAGGATGGGAAGACCACCCGAGAGACCACATGAAGCTGAAGGTCCAGGGCATGGAGTGTCTCTATGGC  
TGCTACGTTCACTCTTCCATCGTCCCCACATTCATCGGCGCTGCTACTGGCTGCTCCAGAACCCTGACA  
TCGTCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGGAAAGGGCTGCAGCCCCATCTTTG  
TTCCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGAGGAGTTGTTGGGACAGCTGAAGCCC  
ATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGCAGC  
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CCTAGAAATCAGACCTAGCCCTCCACTTCTCGAGGGGTTTCTTCAAGAGGAGGCACTGCTATCCTCCTC  
CTGACAGGACTGGAGCAGCGGGCTGGAGGCTTGACGCCACCAGGCACTTGGCTCCACAGGCTGATCCTA  
GGCCTTCCATGAGTTTGGCAGTGGTTGTAGGCACTGAGCCTTCTGCCACCAGCTCCTCCAGTCTGTG  
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TACCCACCCTCACCTGCCCTTGGAGCCGTCAAGCAGGGTAGGAAGAGGAGAGGCTTGTGGAG  
GACCTGTTGGGGCAGTGAAGTGGAGCCCTTCACTTTTCATCATTCCCAGACCTTATGGGAGAACTCAT



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CAGTGACGAAGCTCCAAGCATCCCTGCTCCGACCCCCAGCTGTCTCCTGCTCTTAGCACCATCACAGAC  
TTCTCCCCAGAGTGGTCCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCCTTGGACCGAAGCCG  
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CACTGGACGACAACCAGTTCGGATGCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAGA  
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TATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGAGCAAGTCCGAAGCTACTATGAACAGAAGCGAT  
TTCAGCAGAGCCCGGAGCGGCTGTGCTCATCCAGCAGCACTACCGCTCTACCGCCGAGGCCCGGCC  
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AGCCCGGAAGATCATGAGATTCTGCGGCGCTGCCGACACAGGATGAGGGAACTGAAGCAGAACCAGGAG  
CTGGAAGGGCTTCCCAGCCGGGACTGGCCACATGACCTGGCCACCGCTTCTCACCACCCTGGGGCG  
CCTCGTGCAGTCT

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG230679 representing NM\_001171167  
 Red=Cloning site Green=Tags(s)

MGTDSPSPRPLRPGVTLPPGALTMNTKDTTEVAENSHHLKIFLPKLLLECLPRCLLPPERLRWNTNEEI  
 ASYLITFEKHDEWLSCAPKTRPQNGSIIILYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLVQGMCLYG  
 CYVHSSIVPTFHRRRCYLLQNPDIIVLVHYLNVPALEDGCGKCSPIFCSISSDRREWLKWSREELLGQLKP  
 MFHGIKWSCGNGTEEFVSEHLVQQILDTHPTKPAPRTHACLCSGGLGSGSLTHKCSSTKHRIISPKVEPR  
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 FSPEWSYPEGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLRCYCPAHEVGLVSLQVAGREGPLS  
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 PGFEARVVVLVESMIPRSTWKGPERLAHGSPFRGMSLLHLAAAQGYARLIETLSQWRSVETGSLDLEQEV  
 DPLNVDHF SCTPLMWACALGHLEAAVLLFRWNRQALSI PDSLGRPLSVAHSRGRVRLARCLEELQRQEP  
 SVEPPFALSPPSSPDTGLSSVSSPSELSDGTF SVTSAYSSAPDGSPPPAPLPASEMTMEDMAPQLSSG  
 VPEAPLLLMDYEATNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIIPVDMISLAKQIIEATPERIKRE  
 DFVGLPEAGASMRERTGAVGLSETMSWLASYLENVDHFPSSSTPPSELPFERGR LAVPSAPSWAEFLSAST  
 SGKMESDFALLTSDHEQRELYEAARVIQTAFRKYKGRRLKEQQEVA AAVIQRCYRKYKQLTWIALKFAL  
 YKMTQAAILIQSKFRSYEQKRFQQSRAAVLIQQHYRSYRRRPGPPHRTSATLPARNKLLSHQEAGPG  
 SPEDHEIPAALPTQDEGTEAEPGAGRASPAGTGHMTWPPPFSPWPGRLVQS

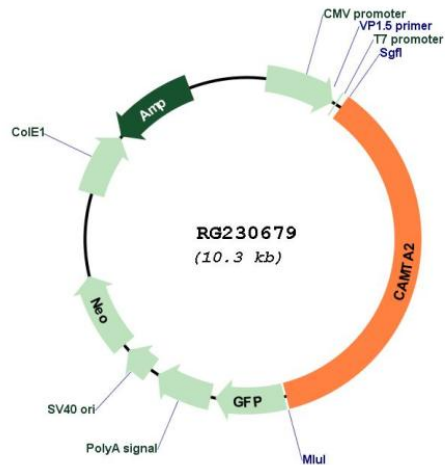
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001171167

ORF Size: 3723 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\\_001171167.2](#)

RefSeq Size: 4852 bp

RefSeq ORF: 3726 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]