

Product datasheet for **RC213620**

CAMTA2 (NM_015099) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMTA2 (NM_015099) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CAMTA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213620 representing NM_015099 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATACCAAGGACACCACCGAGGTTGCTGAAAACAGCCACCACCTGAAGATCTTTCTCCCAAGAAGC
TGCTGGAGTGTCTTCTCGCTGCCCGCTGCTGCCTCCAGAGAGGCTACGGTGAATACAAATGAGGAGAT
TGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGTGGCTGTCTTGTGCCCAAGACAAGGCCTCAG
AATGGCTCCATCATCCTCTACAATCGAAGAAGGTGAAATACGGAAGGATGGTTACCTCTGGAAGAAGC
GGAAGGATGGGAAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCCAGGGCATGGAGTCTCTATGG
CTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGCTGCTACTGGCTGCCAGAACCCTGAC
ATCGTCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGAAAAGGGCTGCAGCCCCATCTTTT
GTTCCATCAGCAGCGACCGTCCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTTGGGACAGCTGAAGCC
CATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGCAG
CAGATTTTGGACACCCACCAACCAAGCCTGCTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGCTTG
GTTCTGGGAGCCTTACCCACAAATGCAGCAGCAGAAACACCGCATCATCTCTCCAAAGTGAGCCCCG
AGCTTTAACCCCTGACCTCTATCCCCACGCTCACCCCCAGAGCCTCCTCCACTGATAGCCCCACTTCCC
CCAGAGCTCCCCAAGGCACACACCTCCCCATCTTCTTCTTCTTCTCCTCCTCATCAGGTTTTGCAGAGC
CCCTAGAAATCAGACCTAGCCCTCCACTTCTCGAGGGGTTCTCAAGAGGAGGACTGCTATCCTCCT
CCTGACAGGACTGGAGCAGCGGGCTGGAGGCTTGACGCCACCAGGCACTTGGCTCCACAGGCTGATCCT
AGGCCTTCCATGAGTTTGGCAGTGGTTGTAGGCACTGAGCCTTCTGCCACCAGCTCCTCCAGTCCCTG
CCTTTGACCCTGATCGTTTTCTCAACAGCCCCAGAGGGGCCAGACATATGGAGGGGGCAGGGAGTAAG
CCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCTGTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAG
CCCCAGGCAGCTGCTCGGGTCCCCACACAGTCAGTAGCAGGTGGGAGAAGAGGAACTGCTTCTTCA
TCCAAGATGATGACAGTGGGAGGAGCTCAAGGGTCACGGGGCTGCCCAACCCATACCTTCAACCCCTCC
CTCACCCCCACCCTCACCTGCCCTTGGAGCCGTCAAGCAGGGTAGGAAGAGGAGGCGCTTGTGGGA
GGACCTGTTGGGCCAGTGAACCTGGAGCCCTTCACTTTCATCATTTCCAGACCTATGGGGAACCTCA
TCAGTGACGAAGCTCCAAGCATCCTGCTCCGACCCCCAGCTGTCTCCTGCTCTTAGCACCATCACAGA



[View online »](#)

CTTCTCCCAGAGTGGTCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCTTGACCGAAGCC
GCCGAGCATTACTCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGCCAGCCTGGTGTCTTAC
GCTGCTACTGTCCCGCCATGAGGTAGGGCTGGTGTCTTTGCAGGTGGCAGGGCGGGAGGGGCCCTTTC
TGCTTCTGTGCTCTTTGAGTATCGAGCCCGCCGATTCTGTCTCTGCCTAGTACTCAACTTGACTGGCTG
TCACTGGACGACAACCAGTTCGGATGTCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAG
AGATCGCAGCAGCTGGCAGGTGCCTTGCCAGGGTCTGATGCTCCTCAGTTCAGGATGAAGGCCAGGG
GCCTGGTTTGAAGCACGGGTAGTGGTCTTGGTAGAAAGCATGATCCCACGCTCCACCTGGAAGGGTCTCT
GAACGTCTGGCCATGGAAGCCCTTCCGGGGCATGAGCCTTCTGCACCTGGCTGCTGCCAGGGCTATG
CCCGCCTCATCGAGACCCTGAGCCAGTGGCGGAGTGTGGAGACTGGAAGCTTGGACTTAGAGCAGGAGGT
TGACCCGCTCAACGTGGATCATTCTCTTGACCCCTCTGATGTGGGCTTGTGCCCTGGGACACCTGGAA
GCTGCTGTGCTCCTTTCCGTTGGAACCGACAGGCACTGAGCATTCCCGACTCTCTGGGCGCTGCCAT
TGTCTGTGGTCAATCCCGGGTCACTGTGCGCCTTGCCCGCTGCCTTGAGGAACTACAGAGACAGGAGCC
TTCGGTGGAGCCCCATTTGCCCTATCGCCACCCTCCTCCAGCCAGACACTGGTCTGAGCAGCGTCTCC
TCGCCCTCGGAGCTGTGGATGGACCTTTTCCGTACGTCAGCCTATTCTAGTCCCCAGATGGCAGTC
CCCCCCTGCACCTCTGCCAGCCTCTGAGATGACTATGGAGGACATGGCCCCAGGCCAGCTTTCCTCTGG
TGTCACAGAACCCCTACTCCTCATGGACTATGAGGCTACCAACTCCAAGGGGCCCTCTCCTCCCTT
CCTGCCCTCCCACCAGCTTCAGATGATGGGGTCTCCAGAGGACGCTGACAGCCACAGGCTGTGGATG
TGATCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGGAGCGGATTAACGAGA
GGACTTCGTGGGGCTGCCCGAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAG
ACCATGTCCTGGCTGGCCAGCTACCTGGAGAATGTGGACCATTTCCCGAGCTCAACCCCTCCCAGCGAAC
TGCCCTTTGAGCGAGGTGCCTGGCTGTCCCTCAGCACCTCCTGGGAGAGTTTCTCTCTGCATCCAC
CAGTGGCAAGATGGAAGTGATTTTGCCTGCTGACACTATCAGATCACGAGCAGCGGAACTGTATGAG
GCTGCCCAGTCACTCCAGACGGCCTTCGAAAGTACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAG
CAGCAGCTGTAATCCAGCGCTGTTACCGGAAGTACAAGCAGCTGACCTGGATTGCACTTAAGTTTGCAC
CTATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGAGCAAGTTCCGAAGCTACTATGAACAGAAGCGA
TTTCAGCAGAGCCCGGAGCGGCTGTGCTCATCCAGCAGCACTACCGCTCCTACCGCCGAGGCCCGGCC
CTCCCCACCGACTTCGGCCACCCTGCCTGCCGCAACAAGGCTCCTTTCTACCAAGAAGCAGGACCA
GGCAGCCCGAAGATCATGAGATTCTGCGGGCTGCCGACACAGGATGAGGGAAGTGAAGCAGAACCAG
GAGCTGGAAGGGCTTCCCAGCCGGACTGGCCACA

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213620 representing NM_015099
 Red=Cloning site Green=Tags(s)

MNTKDTTEVAENSHHLKIFLPKLLLECLPRCPLLPPELRWNTNEEIASYLITFEKHDEWLSAPKTRPQ
 NGSIIILYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLKVQMECLYGCYVHSSIVPTFHRRCYWLLQNP
 IVLVHYLNVPALEDGKGCSPIFCSISSDRREWPKWSREELGQLKPMFHGIKWSCGNGTEEFVSEHLVQ
 QILDTHPTKPAPRTHACLCSGGLGSGSLTHKCSSTKHRIISPKVEPRALTLTSIPHAHPPEPPLIAPLP
 PELPKAHTSPSSSSSSSGFAEPLIIRPSPTSRGGSSRGGTAIIILLTGLEQRAGGLTPTRHLAPQADP
 RPSMSLAVVVGTEPSAPPAPPSPAFDPDRFLNSPQRGQTYGGGQGVSPDFPEAAEAHTPCSALEPAAALE
 PQAAARGPPPQSVAGRRGNCFFIQDDDSGEELKGHGAAPPISPPSPPPSPAPLEPSSRVGRGEALFG
 GPVGASELEPFLSSFPDLMGELISDEAPSIAPTPQLSPALSTITDFSPESYPEGGVKVLITGPWTEA
 AEHYSCVFDHIAVPASLVQPGVLRICYCPAHEVGLVSLQVAGREGPLSASVLFYRARRFLSLPSTQLDWL
 SLDDNQFRMSILERLEQMEKRAEIAAAGQVPCQGPDPAPPVQDEGQGPGEARVVVLESMPRSTWKG
 ERLAHGSPFRGMSLLHLAAAQGYARLIETLSQWRSVETGSLDLEQEVDPLNVDHFCTPLMWACALGHLE
 AAVLLFRWNRQALSIPDSLGRPLPLVAHSRQHVRLARCLEELQRQEPSVEPPFALSPPSSSPDTGLSSVS
 SPSELSDGTFSVTSAYSSAPDGSPPAPLPAEMTMEDMAPGQLSSGVPEAPLLMDYEATNSKGPLSSL
 PALPPASDDGAAPEDADSPQAVDVIPVDMI SLAKQIEATPERIKREDFVGLPEAGASMRERTGAVGLSE
 TMSWLASYLENVDHFPSTPPELPERGRLAVPSAPSWAEFLSASTSGKMESDFALLTSDHEQRELYE
 AARVIQTAFRKYKGRRLKEQQEVAAAVIQRCYRYKQLTWIALKFALYKMTQAAAILIQSKFRSYEQKR
 FQSSRAAVLIQQHYRSYRRRPGPPHRTSATLPARNKGSFLTKKQDQAARKIMRFLRRCRHRMRELKQ
 NQ
 ELEGLPQPLAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

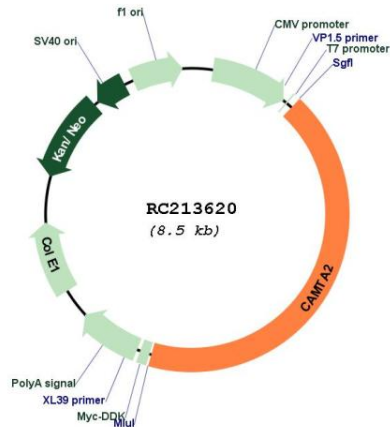


ACCN: NM_015099

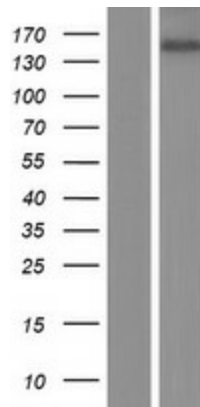
ORF Size: 3606 bp

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:	<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:	NM_015099.4
RefSeq Size:	4475 bp
RefSeq ORF:	3609 bp
Locus ID:	23125
UniProt ID:	O94983
Cytogenetics:	17p13.2
MW:	131.3 kDa
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]

Product images:



Circular map for RC213620



Western blot validation of overexpression lysate (Cat# [LY414788]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213620 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).