

Product datasheet for RR207690

Casq2 (NM_017131) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casq2 (NM_017131) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Casq2
Synonyms:	cardCSQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR207690 representing NM_017131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGGATTTACCTGCTCGTGGTGGGCTTTATCTGCTGTCCTTTAGCAGGGCAGAAGAGGGGCTGA
ACTTCCCCACGTACGATGGGAAGGACCGAGTGGTCAGCCTTTCTGAGAAGAACTGAAGCAAGTGTGAA
GAGATACGATTTGCTCTGTCTCTACTACCAGGAGCCTGTGTCTCAGACAAGGTCGCACAGAAGCAGTTC
CAACTGAAGGAGATCGTACTGGAGCTTGTGGCCAGGTTCTGGAACATAAAAACATAGGCTTTGTGATGG
TGGATTCAAGGAAAGAGGCCAAGCTTGCCAAGAGGCTGGGCTTCAGTGAAGAAGGAAGCCTGTATGTTCT
GAAGGGTGGTCGCACCATTTGAGTTTGACGGGAAATTTGCAGCAGATGTCTTGGTGAATTTCTCTGGAC
CTCATTGAGGACCCAGTAGAGATCGTGAACAACAAGTTGGAAGTCCAAGCCTTTGAGCGCATCGAGGACC
AGATCAAGCTGCTGGCTTTTTCAAGAATGAGGACTCAGAATATTACAAAGCGTTCCAAGAGGCAGCTGA
ACACTTCCAGCCTTACATCAAGTTCTTTGCCACCTTTGACAAGGGGGTGGCAAAGAAGTTGTCTTGAAG
ATGAATGAAGTTGGCTTCTATGAGCCATTTATGGATGAACCCAGTGTCCCTAACAGCCCTACACAG
AAGAGGAGCTTGTGGAGTTTGTGAAGGAGCATCAAAGACCCACCTACGTCGCTTGCGCCAGAGGACAT
GTTTGAACATGGGAAGACGACTTGAATGGAATCCACATTTGTGGCATTTCGGGAGAAGAGTGACCCAGAT
GGCTATGAGTTCTGGAGATCCTAAAACAGGTTGCCCGGACAACACTGACAACCCTGACTTGAGCATCT
TGTGATTGACCCAGACGACTTTCCTCTGCTTGTGCTTACTGGGAGAAGACTTTCAAGATTGACCTGTT
CAAGCCACAGATTGGGGTGGTGAATGTAACCGATGCTGACAGTGTCTGGATGGAGATCCCAGATGATGAC
GACCTGCCACAGCTGAGGAGCTGGAAGACTGGATTGAGGATGTCTTTCTGAAAGATCAATACTGAAG
ACGATGACAATGAAGATGAAGATGATGATGGCGATAATGACAATGACGATGACGATGACGACGATGATAA
TTCTGATGAGGATAATGATGACAGTGTGATGACGATGATGACGATGATGACGATGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR207690 representing NM_017131
 Red=Cloning site Green=Tags(s)

MKRIYLLVVGLYLLSFSRAEEGLNFPTYDGKDRVVSLSEKNLKQVLKRYDLLCLYHEPVSSDKVAQKQF
 QLKEIVLELVAQVLEHKNIGFVMVDSRKEAKLAKRLGFSEESLYVLKGGRTIEFDGEFAADVLEFLLD
 LIEDPVEIVNNKLEVQAFERIEDQIKLLGFFKNEDSEYYKAFQEAAEHFQPYIKFFATFDKGVAKKLSLK
 MNEVGFYEPFMDEPSVIPNKPYTEEELVEFVKEHQRPTRLRRLRPEDMFETWEDDLNGIHIIVAFAEKSDPD
 GYEFLEILKQVARDNTDNPDLNILWIDPDDFPLLVAWYWEKTFKIDLFKPQIGVVNVTDADSVWMEIPDD
 DLPTAEELDWIEDVLSGKINTEDDDDNEDEDDDDGNDNDDDDDDDDNSDEDNDDSDDDDDDDDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_017131

ORF Size: 1239 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_017131.2](#), [NP_058827.3](#)

RefSeq Size: 2478 bp

RefSeq ORF: 1242 bp

Locus ID: 29209

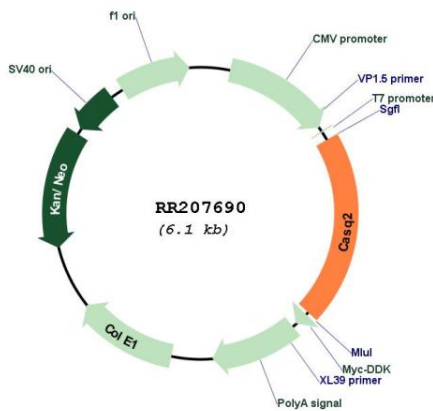
UniProt ID: [P51868](#)

Cytogenetics: 2q34

MW: 47.9 kDa

Gene Summary: binds activated epsilon protein kinase C holoenzyme; human homolog serves as a calcium resevoir in cardiac myocytes [RGD, Feb 2006]

Product images:



Circular map for RR207690