

Product datasheet for **MC206664**

Casq1 (BC064057) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Casq1 (BC064057) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Casq1
Synonyms:	CSQ, CSQ1, CSQ-1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC064057
 CCTCTGTCCACTGCTCTGGCCACTCTCTACCCTACCCCCACCTGGAGCCCCTAACTCAGGATTCTGTAT
 CCAAGGGGCACCTCTCCCTATTTTCAGCTAACCTCCTCTGGACCAGGAGAGCAGGCCAGATTGACTACC
 TCCATGAGAGCTACCGACAGGATGGGGGCCAGAGCAGTGTCCGAGCTGCGGCTGGCACTGCTGTTGTAC
 TGGTGTAGGGACGCCAGGTTAGGGTCCAGGGGAAGATGGGTTGGACTTCCCTGAGTACGACGGTGT
 GGACCGTGTGATCAATGTGAACGCCAAGAACAACAAGAAGTGTAAAGAAGTATGAGGTGCTGGCCCTC
 CTCTACCATGAGCCCCCGAGGACGACAAGGCCCTCGCAGAGACAATTTGAGATGGAGGACTAATCCTGG
 AGTTAGCAGCCCAAGTCTTAGAAGACAAGGGTGTGGCTTTGGCCTGGTGGACTCAGAGAAGGATGCAGC
 TGTGGCCAAGAACTAGGACTAACTGAAGAAGACAGCGTTTATGTGTTCAAAGGAGATGAAGTCATTGAA
 TATGACGGCGAGTTTTCTGCAGACACTCTGGTGGAGTTTCTGCTTGTATGCTTAGAAGACCTGTAGAGT
 TGATTGAAGGTGAACGAGAGCTGCAGGCATTTGAGAATATTGAAGATGAAATCAAATCATTGGCTACTT
 CAAGAGCAAAGACTCAGAGCATTACAAAGCCTACGAGGACGCAGCTGAAGAGTTCATCCCTACATCCCT
 TTCTTCGCTACCTTCGACAGCAAGGTGGCAAAGAAGCTGACTCTGAAGTTGAATGAGATTGATTTCTACG
 AGGCCTTCATGGAAGAGCCTATGACCATCCAGACAAGCCCAACAGTGAAGAGGAGATTGTGAGCTTCGT
 GGAGGACACAGGATATCAACCCTGAGGAACTGAAGCCTGAGAGTATGTACGAGACTTGGGAGGATGAC
 CTGGATGGAATCCACATTGTCGCCCTTTCAGAGGAAGCAGATCCTGATGGCTATGAGTCTTAGAGACTC
 TCAAGGCTGTGGCCCAAGACAACACTGAGAACCCCGACCTCAGTATCATCTGGATTGATCCTGATGACTT
 CCCGCTGCTGGTCCCGTACTGGGAGAAGACCTTTGACATTGACCTGTCAGCTCCACAAATAGGAGTTGTC
 AATGTTACAGACGCGGACAGCATATGGATGGAGATGGATAACGAGGAGGACCTGCCTTCTGCTGATGAGC
 TGGAGGACTGGCTGGAGGACGTGCTGGAGGGCGAGATCAACACAGAGGATGACGACGACGATGACGACGA
 TGACGATGATGACGATGATGATGACGACTAGATGACTAGTGGCCGTGGCAGCCGCGTACCAGCCCCACTT
 GCTCCTTACTTGTGTACCTTTCTGCCATCTGTGCCCTTCCCCGGGCTCCTTGGGACACTAGGTCATTCT
 TACTACAGGGCCAACCTGGTCTGCATACAGGGTGTCTGAGGTCTGGTCTCCCTCCTCCGAGGAGAAAA
 GGAGCTGCTTTTTCTTAGATCCCAGCCAGTTCTCTCATCTGACTTGCTTCTTCCCCAGACCTTATCTG
 TTTCTTCTCCCGCACTCCCATACTTAACGGTTTGCAAACCTTCTCTATCCCATTCTCAAATCTTAA
 ACCTCTCTCACTGCTGACCCTGGCCAGGAGGAAGGGAGGTAAGTGTGTTAGGGGCTATAATCTTAGCCA
 TCTCTGTTAATGTATTTGGGTCAAATGCAAGGCCTTAATAAAGAAATCTGGGGCAGAAAAAAAAAAAAA
 AA

Restriction Sites: EcoRI-NotI

ACCN: BC064057

Insert Size: 1200 bp

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).

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: [BC064057](#), [AAH64057](#)

RefSeq Size: 1877 bp

RefSeq ORF: 1200 bp

Locus ID: 12372

Cytogenetics: 1 79.54 cM

Gene Summary: Calsequestrin is a high-capacity, moderate affinity, calcium-binding protein and thus acts as an internal calcium store in muscle. Calcium ions are bound by clusters of acidic residues at the protein surface, often at the interface between subunits. Can bind around 80 Ca(2+) ions (By similarity). Regulates the release of luminal Ca(2+) via the calcium release channel RYR1; this plays an important role in triggering muscle contraction. Negatively regulates store-operated Ca(2+) entry (SOCE) activity (By similarity).[UniProtKB/Swiss-Prot Function]