

## Product datasheet for MC208218

### Casq2 (NM\_009814) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Casq2 (NM_009814) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Casq2
Synonyms:	AA033488; AW146219; cCSQ; Csq2; ESTM52
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208218 representing NM_009814 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGAGGATTTACCTGCTCATGGTGGGGTTTATCTGCTGTCCCTGAGCGGGGCAGAAGAGGGGCTGA  
ACTTCCCCACGTACGATGGGAAAGACCGAGTGGTCAGCCTTTCTGAGAAGAACCTCAAGCAGATGTTGAA  
GAGATATGATTTGCTCTGTCTCTATTACCACGAACCTGTGTCTTCAGACAAGGTCTCACAAAACAGTTC  
CAGCTGAAGGAGATTGTACTGGAGCTTGTGGCCAGGTCTGGAACATAAAAACATAGGCTTTGTGATGG  
TGGATTCGAGGAAAGAGGCCAAGCTTGCTAAGAGGCTGGGATTCAGTGAAGAAGGAAGCCTGTATGTTCT  
GAAGGGTGACCGCACGATTGAGTTTGACGGGGAGTTCGCAGCAGATGTCTTAGTGAATTTCTCTGGAT  
CTCATTGAAGACCCAGTGGAGATCGTGAATAACAAGCTGGAGGTCCAGGCCTTTGAGCGCATCGAGGACC  
AGACCAAGCTCCTTGGCTTCTTCAAGAATGAGGACTCAGAATATTACAAAGCATTCCAAGAGGCAGCTGA  
ACACTTCCAGCCTTACATCAAGTTCTTTGCCACCTTTGACAAGGCGGTGGCAAAGAAGTTATCCTTGAAG  
ATGAACGAAGTTGGCTTCTATGAGCCATTTATGGATGAGCCCAACGTATCCCTAACAAACCGTACACAG  
AAGAGGAGCTTGTGGAGTTTGTGAAGGAACATCAAAGACCCACCTACGTCGCTTGCGCCAGAGGACAT  
GTTTGAACATGGGAAGACGACTTGAATGGGATCCACATCGTGGCCTTTGCGGAGAAGAGTGACCCAGAT  
GGCTATGAGTTCCTAGAGATCCTGAAACAGGTTGCCCGGACAACACTGACAATCCTGACTTGAGCATCT  
TGTGGATTGACCCAGATGACTTTCCTACTGCTTGTGCTTACTGGGAGAAGACTTTCAAGATTGACCTGTT  
CAAGCCACAGATTGGGGTGGTGAATGTAACCGATGCTGACAGTATCTGGATGGAGATCCCAGATGATGAC  
GACCTGCCACAGCTGAGGAGCTGGAAGACTGGATTGAAGATGTCTTTCTGAAAGATCAACACTGAAG  
ATGATGACAATGAAGATGAAGATGATGATGGTATGACAACGATGACGATGATGATGACGACGATGATAA  
TGATAATTCTGATGAGGATAATGAAGACAGTATGATGACGATGATGACGATGAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_009814
<b>Insert Size:</b>	1248 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_009814.3</a></u> , <u><a href="#">NP_033944.2</a></u>
<b>RefSeq Size:</b>	2544 bp
<b>RefSeq ORF:</b>	1248 bp
<b>Locus ID:</b>	12373
<b>UniProt ID:</b>	<u><a href="#">O09161</a></u>
<b>Cytogenetics:</b>	3 F2.2
<b>Gene Summary:</b>	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, especially at the interface between subunits. Can bind around 60 Ca(2+) ions. Regulates the release of luminal Ca(2+) via the calcium release channel RYR2; this plays an important role in triggering muscle contraction. Plays a role in excitation-contraction coupling in the heart and in regulating the rate of heart beats.[UniProtKB/Swiss-Prot Function]