

Product datasheet for **RN216585**

Casq1 (NM_001159594) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Casq1 (NM_001159594) Rat Untagged Clone
Tag: Tag Free
Symbol: Casq1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216585 representing NM_001159594
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAGCCACTGACAGGATGGGGCCAGGGCAGTGTCCAAGCTGCGGCTGGCACTGCTGTTTGTACTGG
TGCTAGGGACGCCAGGTCAGGGTCCAGGGGAGGACGGCTGGACTTCCCTGAATACGACGGTGTGGA
CCGCGTGATCAATGTGAACGCAAAGAACAACAAGAAGCTGTTAAGAAGTATGAGGTGCTAGCCCTCCTC
TACCATGAGCCCCCGAGGACGACAAGGCCTCCCAAAGACAATTTGAGATGGAGGAGCTAATTCTGGAGT
TAGCAGCCCAAGTCTAGAAAGACAAGGGTGTGGCTTTGGCCTGGTGGACTCTGAGAAAGATGCAGCTGT
GGCCAAGAACTAGGCCTAACTGAAGAGGACAGCGTGTATGTGTTCAAAGGAGATGAAGTCATCGAGTAT
GATGGCGAGTTTTCCGCAGACACTTTGGTGGAGTTTCTGCTCGATGTCCTAGAAGACCCTGTGCAATTGA
TTGAAGGTGAACGAGAGCTGCAGGCATTTGAGAACATCGAGGATGAAATCAAACCTATTGGCTACTTCAA
GAGCAAAGACTCAGAGCATTACAAAGCCTACGAGGATGCAGCTGAAGAATCCACCCTACATCCCTTTC
TTCGCTACCTTCGACAGCAAGGTGGCAAAGAAGCTGACGCTGAAGTTGAACGAGATCGATTTCTATGAGG
CCTTCATGGAAGAACCTGTGACCATCCAGACAAGCCCAACAGTGAAGAGGAGATTGTCAGCTTCGTGGA
GGAGCACAGGAGATCGACCCTGAGGAACTGAAGCCTGAGAGTATGTATGAGACTTGGGAGGATGATCTG
GATGGAATCCACATTGTGGCCTTTGAGAGGAAGCTGACCCTGATGGTTATGAGTCTTAGAGACTCTCA
AGGCTGTGGCCCAAGACAACACTGAGAACCCTGACCTCAGTATCATCTGGATTGACCCTGATGACTTCCC
ACTGCTGGTCCCCTACTGGGAGAAGACCTTTGACATCGACTTGTGAGCTCCGCAAATAGGAGTTGTCAAT
GTTACGGATGCGGACAGCATATGGATGGAGATGGACGACGAGGAGGACCTTCTTCTGCTGAGGAGCTGG
AGGACTGGCTGGAGGATGTGCTGGAGGGTGAATCAACACAGAGGATGACGACGACGACGACGACGACGA
CGATGATGACGACGACGACGACGATGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001159594
Insert Size:	1221 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001159594.1</u> , <u>NP_001153066.1</u>
RefSeq Size:	1865 bp
RefSeq ORF:	1221 bp
Locus ID:	686019
UniProt ID:	<u>P19633</u>
Cytogenetics:	13q24
Gene Summary:	Calsequestrin is a high-capacity, moderate affinity, calcium-binding protein and thus acts as an internal calcium store in muscle (PubMed:8042990). 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. Regulates the release of luminal Ca(2+) via the calcium release channel RYR1; this plays an important role in triggering muscle contraction (By similarity). Negatively regulates store-operated Ca(2+) entry (SOCE) activity (By similarity).[UniProtKB/Swiss-Prot Function]