

Product datasheet for **SC123207**

Calreticulin 3 (CALR3) (NM_145046) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Calreticulin 3 (CALR3) (NM_145046) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calreticulin 3
Synonyms:	CMH19; CRT2; CT93
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_145046 edited
AGAGGCGCAGAGAGAGCTGGGAGCTAAGGGGTGGCGCGACCCGGAAGCGCAGTGCACACC
CCCATGGCCCCGGCTTTGGTCCAGTTCTGGGCCATATGCATGCTGCGAGTGGCGTGGCT
ACCGTCTATTTCCAAGAGGAATTTCTAGACGGAGAGCATTGGAGAAACCGATGGTTGCAG
TCCACCAATGACTCCCGATTTGGGCATTTAGACTTTTCGTGCGGCAAGTTTTATGGTCAT
AAAGAGAAAGATAAAGGTCTGCAAACACTCAGAATGGCCGATTCTATGCCATCTCTGCA
CGCTTCAAACCGTTCAGCAATAAAGGGAAAACCTGGTTATTCAGTACACAGTAAAACAT
GAGCAGAAGATGGACTGTGGAGGGGGCTACATTAAGGTCTTTCCTGCAGACATTGACCAG
AAGAACCTGAATGGAAAATCGCAATACTATATTATGTTTGGACCCGATATTTGTGGATTT
GATATCAAGAAAGTTCATGTTATTTTACATTTCAAGAATAAGTATCACGAAAACAAGAAA
CTGATCAGGTGTAAGGTTGATGGCTTACACACCTGTACACTCTAATTTAAGACCAGAT
CTTTCTTATGATGTGAAAATTGATGGTCAGTCAATTGAATCCGGCAGCATAGAGTACGAC
TGGAACTTAACATCACTCAAGAAGGAAACGTCCCCGGCAGAATCGAAGGATTGGGAACAG
ACTAAAGACAACAAGGCCAGGACTGGGAGAAGCATTCTTGGACGCCAGCACCAGCAAG
CAGAGCGACTGGAACGGTGACCTGGATGGGGACTGGCCAGCGCCGATGCTCCAGAAGCCC
CCGTACCAGGATGGCCTGAAACCAGAAGGTATTCATAAAGACGTCTGGCTCCACCCTAAG
ATGAAGAATACCGACTATTTGACGCGATGACCTCTCAGAATTTGAGAACATTGGTGCC
ATTGGCCTGGAGCTTTGGCAGGTGAGATCTGGAACCATTTTGTAACTTTCTGATCACA
GATGATGAAGAGTATGCAGATAATTTTGGCAAGGCCACCTGGGGGAAACCAAGGTCCA
GAAAGGGAGATGGATGCCATACAGGCCAAGGAGGAAATGAAGAAGCCCGCGAGGAAGAG
GAGGAAGAGCTGCTGTGCGGAAAAATTAACAGGCACGAACATTACTTCAATCAATTTTAC
AGAAGGAATGAACTTTAGTGATCCCATTTGGATATAAGGATGACTGGTAAATCTCATTG
CTACTTTAATCTAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145046 unedited NCCGGCTGTTCCGGCTTTTGAATACGACTCACTATAGGGCGGCCGCGATTGCGCCCTCCC GGACCATGACCATGACCCTCCACACCAAAGCATCTGGGATGGCCCTACTGCATCAGATCC AAGGGAACGAGCTGGAGCCCCTGAACCGTCCGCAGCTCAAGATCCCCCTGGAGCGGCCCC TGGGCGAGGGTGTACCTGGACAGCAGCAAGCCCGCCGTGTACAACACCCCGAGGGCGCC GCCTACGAGTTCAACGCCGCGGCCGATAAATTCGTATAGCATAACATTATACGAAGTTAT GGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGAGGCCGAGAGAGAGCT GGGAGCTAAGGGGTGGCGGCGACCGGAAGCGCAGTGCACACCCCATGGCCCGGGCTTTG GTCCAGTTCTGGCCATATGCATGCTGCGAGTGGCGCTGGCTACCGTCTATTTCCAAGAA GGAATTTCTAGACGGAGAGGCATTGGAGAAACCGATGGTTGCAGTCCACCAATGACTCCC GATTTGGCATTTTAGACTTTTCGTGGGCAAGTTTTATGGGTCATAAAAGAGAAAGATAA AGGTCTGCAAACCACTCAGAATGGCCGATTCTATGCCATCTCTGCACGCTTCANACCGTT CACCAATAAGGGGAAAACCTGGTTATTCATTACACAGTAAAACATGAACCAAAGAAGGA CTGTGGAAGGAGGCTACATTAAGGTCTTCTGCAGACATTGACCAGAAGAACCTGAATG GAAAATCGCAATACTATATTATGTTTGGACCCAATTTTGTGGATTGATATCAAGAAATT CATGTTATTTACTTTTCCAGAATAAGTTCGCGAAAACAAGAAGTGTTCAGG
Restriction Sites:	Please inquire
ACCN:	NM_145046
Insert Size:	1293 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:	<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_145046.2 , NP_659483.1
RefSeq Size:	1288 bp
RefSeq ORF:	1155 bp
Locus ID:	125972
UniProt ID:	Q96L12
Cytogenetics:	19p13.11

Gene Summary:

The protein encoded by this gene belongs to the calreticulin family, members of which are calcium-binding chaperones localized mainly in the endoplasmic reticulum. This protein is also localized to the endoplasmic reticulum lumen, however, its capacity for calcium-binding may be absent or much lower than other family members. This gene is specifically expressed in the testis, and may be required for sperm fertility. Mutation in this gene has been associated with familial hypertrophic cardiomyopathy. [provided by RefSeq, Dec 2011]