

## Product datasheet for **TP304696**

### CASQ1 (NM\_001231) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human calsequestrin 1 (fast-twitch, skeletal muscle) (CASQ1), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204696 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGPRAVPGLRLALLLLVLGTPKSGVQGQEGLDPEYDGVDRVINVNAKKNVFKKYEVLLALLYHEPPE  
DDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEVDSMYVFKGDEVIEYDGEFSA  
DTIVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKSKDSEHYKAFEDAAEEFHPYIPFFATFDS  
KVAKKLTCLKNEIDFYEAFMEEPVTIPDKPNSEEEIVNFVEEHRRSTLRKLPESMYETWEDDMDGIHIV  
AFAEEADPDGFEFLETLKAVAQDNTENPDLIIWIDPDDFLLVPYWEKTFDIDL SAPQIGVVNVT DADS  
VWMEMDDEEDLPSAAELEDVLEGEINTEDDDDDDDD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	45 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001222</a>

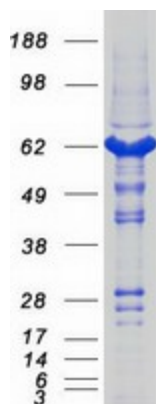


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Locus ID:	844
UniProt ID:	<a href="#">P31415</a>
RefSeq Size:	1993
Cytogenetics:	1q23.2
RefSeq ORF:	1170
Synonyms:	CASQ; PDIB1; VMCQA

**Summary:** This gene encodes the skeletal muscle specific member of the calsequestrin protein family. Calsequestrin functions as a luminal sarcoplasmic reticulum calcium sensor in both cardiac and skeletal muscle cells. This protein, also known as calmitine, functions as a calcium regulator in the mitochondria of skeletal muscle. This protein is absent in patients with Duchenne and Becker types of muscular dystrophy. [provided by RefSeq, Jun 2013]

### Product images:



Coomassie blue staining of purified CASQ1 protein (Cat# TP304696). The protein was produced from HEK293T cells transfected with CASQ1 cDNA clone (Cat# [RC204696]) using MegaTran 2.0 (Cat# [TT210002]).