

## Product datasheet for TP506274

### Casq1 (NM\_009813) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse calsequestrin 1 (Casq1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206274 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MGARAVSELRLALLFVLVLGTPRLGVQGEDGLDFPEYDGVDRVINVNAKKNVFKKYEVLLALLYHEPPE  
DDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEEDSVVYFKGDEVIEYDGEFSA  
DTLVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKSKDSEHYKAYEDAAEEFHPYIPFFATFDS  
KVAKKLTLKLNEIDFYEA FMEEPMTIPDKPNSEEEIVSFVEEHRISTLRKLPESMYETWEDDLDDGIHIV  
AFAEEADPDGYEFLETLKAVAQDNTENPDLIIWIDPDDFLLVPYWEKTFDIDL SAPQIGVNVTDADS  
IWMEMDNEEDLPSADELEDWLEDVLEGEINTEDDDDDDDDDDDDDDDDDD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	45.6 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
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 after receiving vials.
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_033943</a>
Locus ID:	12372
UniProt ID:	<a href="#">O09165</a> , <a href="#">Q6P3C3</a> , <a href="#">Q8C7M8</a>



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RefSeq Size: 1874

Cytogenetics: 1 79.54 cM

RefSeq ORF: 1200

Synonyms: CSQ; CSQ-1; CSQ1; sCSQ

**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]