

Product datasheet for **TP506556**

Casq2 (NM_009814) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse calsequestrin 2 (Casq2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206556 representing NM_009814 Red =Cloning site Green =Tags(s)

MKRIYLLMVGVYLLSLSGAEGLNFPTYDGKDRVVSLSSEKNLQMLKRYDLLCLYHEPVSSDKVSQKQF
QLKEIVLELVAQVLEHKNIGFVMVDSRKEAKLAKRLGFSEEGSLYVLKGDRTIEFDGEFAADVLEFLLD
LIEDPVEIVNKNLEVQAFERIEDQTKLLGFFKNEDSEYYKAFQEA AEHFQPYIKFFATFDKAVAKKLSLK
MNEVGFYEPFMDEPNVIPNKPYTEELVEFVKEHQRPTRLRRLRPEDMFETWEDDLNGIHIVAFAEKSDPD
GYEFLEILKQVARDNTDNPDL SILWIDPDDFLLVAYWEKTFKIDLFKPQIGVNVTDADSIWMEIPDDD
DLPTAAELEDWIEDVLSGKINTEDDDDNEDEDDDDGDDNDDDDDDDDNDNSDEDNEDSDDDDDDDDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	48.6 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:	<u>NP_033944</u>
Locus ID:	12373
UniProt ID:	<u>Q09161</u>



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RefSeq Size:	2544
Cytogenetics:	3 F2.2
RefSeq ORF:	1245
Synonyms:	AA033488; AW146219; cCSQ; Csq2; ESTM52
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, 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]