

OriGene Technologies, Inc.

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Product datasheet for TP501891

Csrp3 (NM_013808) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins	
Description:	Purified recombinant protein of Mouse cysteine and glycine-rich protein 3 (Csrp3), with C- terminal MYC/DDK tag, expressed in HEK293T cells, 20ug	
Species:	Mouse	
Expression Host:	HEK293T	
Expression cDNA Clone or AA Sequence:	>MR201891 protein sequence Red=Cloning site Green=Tags(s)	
	MPNWGGGAKCGACEKTVYHAEEIQCNGRSFHKTCFHCMACRKALDSTTVAAHESEIYCKVCYGRRYGPK G	
	IGFGQGAGCLSTDTGEHLGLQFQQSPKPARAATTSNPSKFSAKFGESEKCPRCGKSVYAAEKVMGGGKPW HKTCFRCAICGKSLESTNVTDKDGELYCKVCYAKNFGPTGIGFGGLTQQVEKKE	
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV	
Tag:	C-MYC/DDK	
Predicted MW:	20.9 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 038836</u>	
Locus ID:	13009	
UniProt ID:	<u>P50462</u>	
RefSeq Size:	1057	



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	Csrp3 (NM_013808) Mouse Recombinant Protein – TP501891
Cytogenetics:	7 B4
RefSeq ORF:	582
Synonyms:	CRP3; MLP; MMLP
Summary:	Positive regulator of myogenesis. Acts as cofactor for myogenic bHLH transcription factors such as MYOD1, and probably MYOG and MYF6. Enhances the DNA-binding activity of the MYOD1:TCF3 isoform E47 complex and may promote formation of a functional MYOD1:TCF3 isoform E47:MEF2A complex involved in myogenesis (By similarity). Plays a crucial and specific role in the organization of cytosolic structures in cardiomyocytes. Could play a role in mechanical stretch sensing. May be a scaffold protein that promotes the assembly of interacting proteins at Z-line structures. It is essential for calcineurin anchorage to the Z line. Required for stress-induced calcineurin-NFAT activation (PubMed:9039266, PubMed:15665106). The role in regulation of cytoskeleton dynamics by association with CFL2 is reported conflictingly. Proposed to contribute to the maintenance of muscle cell integerity through an actin-based mechanism. Can directly bind to actin filaments, cross-link actin filaments into bundles without polarity selectivity and protect them from dilution- and cofilin- mediated depolymerization; the function seems to involve its self-association (By similarity). In vitro can inhibit PKC/PRKCA activity. Proposed to be involved in cardiac stress signaling by down-regulating excessive PKC/PRKCA signaling (PubMed:27353086).[UniProtKB/Swiss-Prot Function]

Product images:

116 —	
66 —	
45 —	
35 —	
25 —	-
18	
14 —	

Purified recombinant protein Csrp3 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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