

## Product datasheet for TP325217

### CSRP3 (NM\_001127656) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cysteine and glycine-rich protein 3 (cardiac LIM protein) (CSRP3), transcript variant 2

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC225217 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MPNWGGGAKCGACEKTVYHAEIQCNGRSFHKTCFHCMACRKALDSTTVAAHESIYCKVCYGRRYGPKG  
IGYGQGAGCLSTDTGEHLGLQFQQSPKPARSVTTSNPSKFTAKFGESEKPCRCKGKSVYAAEKVMGGGKPW  
HKTCFRCAICGKSLESTNVTDKDGELYCKVCYAKNFGPTGIGFGGLTQQVEKKE

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 20.8 kDa

**Concentration:** >50 ug/mL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Bioactivity:** Enzyme substrate (PMID: [27281159](#))  
Binding assay (PMID: [27281159](#))  
Co-immunoprecipitation (PMID: [27281159](#))

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Applications:** Cell culture: For 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:** [NP\\_001121128](#)

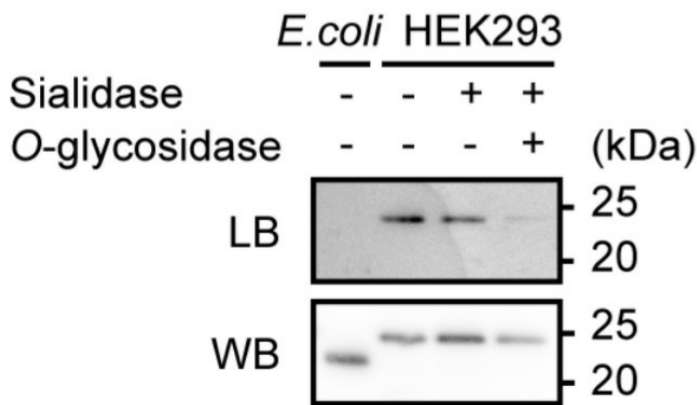


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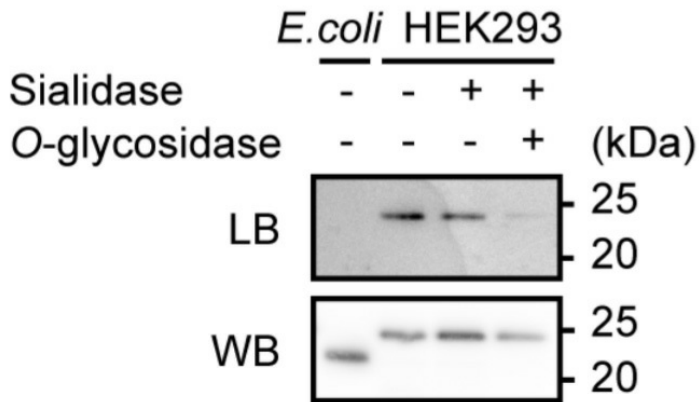
**Locus ID:** 8048  
**UniProt ID:** [P50461](#)  
**RefSeq Size:** 1464  
**Cytogenetics:** 11p15.1  
**RefSeq ORF:** 582  
**Synonyms:** CLP; CMD1M; CMH12; CRP3; LMO4; MLP

**Summary:** This gene encodes a member of the CSRP family of LIM domain proteins, which may be involved in regulatory processes important for development and cellular differentiation. The LIM/double zinc-finger motif found in this protein is found in a group of proteins with critical functions in gene regulation, cell growth, and somatic differentiation. Mutations in this gene are thought to cause heritable forms of hypertrophic cardiomyopathy (HCM) and dilated cardiomyopathy (DCM) in humans. Alternatively spliced transcript variants with different 5' UTR, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008]

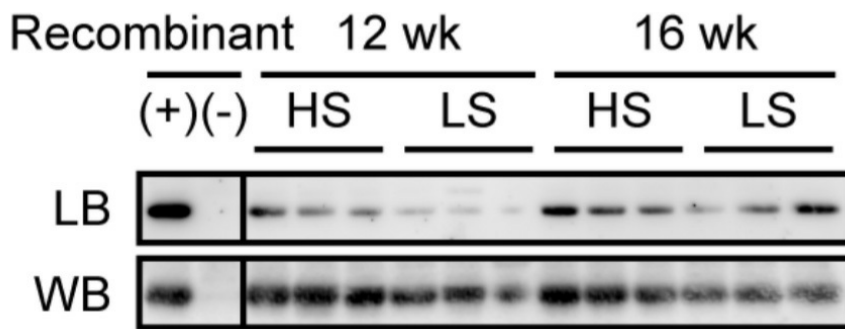
**Product images:**



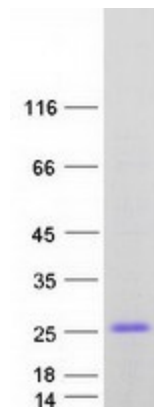
CSRP3 is the substrate of O-glycosidase, according to Western blot (WB) and *Amaranthus caudatus* lectin blot (LB) analyses of recombinant human CSRP3. Recombinant proteins expressed in *E. coli* (unglycosylated negative control) and HEK293 cells (potentially glycosylated reference) (OriGene TP325217) were analyzed after treatment with sialidase and O-glycosidase. Figure cited from PLoS ONE, PMID: 27281159



CSR3P3 binds to *Amaranthus caudatus* lectin (ACA), according to Western blot (WB) and ACA lectin blot (LB) analyses of recombinant human CSR3P3. Recombinant proteins expressed in *E. coli* (unglycosylated negative control) and HEK293 cells (potentially glycosylated reference) (OriGene TP325217) were analyzed after treatment with sialidase and O-glycosidase. Figure cited from PLoS ONE, PMID: 27281159



Altered O-glycosylation on CSR3P3 in the left ventricle of Dahl salt-sensitive rats, according to Western blot (WB) and *Amaranthus caudatus* lectin blot (LB) analyses of CSR3P3 from the left ventricle extracts of Dahl salt-sensitive rats under a low-salt (LS) or high-salt (HS) diet for 12 or 16 weeks. CSR3P3 in the extracts was immunoprecipitated, denatured, separated by SDS-PAGE, and analyzed. Recombinant human CSR3P3 (OriGene TP325217) served as a control for immunoprecipitation with the anti-CSR3P3 antibody (+) or normal IgG (-). Figure cited from PLoS ONE, PMID: 27281159



Coomassie blue staining of purified CSR3P3 protein (Cat# TP325217). The protein was produced from HEK293T cells transfected with CSR3P3 cDNA clone (Cat# [RC225217]) using MegaTran 2.0 (Cat# [TT210002]).