# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-153aa

**UniProt No.** Q9Y534

NCBI Accession No. NP\_055275

Alternative Names Cold shock domain-containing protein C2, dJ347H13.2, PIPPIN

# **PRODUCT SPECIFICATION**

**Molecular Weight** 19.2 kDa (176aa) confirmed by MALDI-TOF

**Concentration** 0.5mg/ml (determined by Bradford assay)

Formulation Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

**Purity** > 90% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

## Description

CSDC2, as known as cold shock domain-containing protein C2, is RNA-binding factor which binds specifically to the very 3'-uTR ends of both histone H1 and H3. 3 mRNAs, encompassing the polyadenylation signal. The cold shock domain containing proteins (CSDPs) are one group of the evolutionarily conserved nucleic acid-binding proteins widely distributed in bacteria, plants, animals, and involved in various cellular processes, including adaptation to low temperature, cellular growth, nutrient stress and stationary phase. It may play a central role in the negative regulation of histone variant synthesis in the developing brain. Recombinant human CSDC2 protein,



fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

#### **Amino acid Sequence**

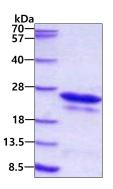
<MGSSHHHHHH SSGLVPRGSH MGS>MTSESTS PPVVPPLHSP KSPVWPTFPF HREGSRVWER GGVPPRDLPS PLPTKRTRTY SATARASAGP VFKGVCKQFS RSQGHGFITP ENGSEDIFVH VSDIEGEYVP VEGDEVTYKM CPIPPKNQKF QAVEVVLTQL APHTPHETWS GQVVGS

### **General References**

Yang C. et al. (2012) PLoS One. 7:e32012 Park SJ. et al. (2009) Plant Cell Physiol. 50:869-878

# DATA

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

