

# FLJ20628

PDB:2B25

## Revision

**Revision Type:**created

**Revised by:**created

**Revision Date:**created

**Entry Clone Accession:**GI:47271406

**Entry Clone Source:**MGC

**SGC Clone Accession:**

**Tag:**N-terminal: His-tag with integrated thrombin protease site: MGSSHHHHHHSSGLVPRGS

**Host:**E.coli BL21 (DE3) codon plus RIL (Stratagen).

## Construct

**Prelude:**

**Sequence:**

gsSTSRERPFQAGELILAETGEGETKFKKLFRLNNFGLLNSNWGAVPFGKIVGKFPQGILRSSFGKQYMLRRPALEDYVVLMKRGTA  
ITFPKDINMILSMMDINPGDTVLEAGSGSGGMSLFLSKAVGSQGRVISFEVRKDHDHLAKKNYKHWRDSWKLSHVEEWPDNVDFIHK  
DISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNITQVIELLDGIRTCELALSCEKISEVIVRDWLVLAKQKN  
GILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFPYVARPVHWQPGHTAFLVKLRKVKPQLN

**Vector:**p28a-LIC

## Growth

**Medium:**

**Antibiotics:**

**Procedure:**FLJ20628 was expressed in E.coli BL21 (DE3) codon plus RIL in M9 minimal medium in the presence of 50 µg/mL of kanamycin. Cell were grown at 37°C to an OD600 of 0.8 and induced by isopropyl-1-thio-D-galactopyranoside (IPTG), final concentration 1 mM, in the presence of 50 mg/L of SeMet and incubated overnight at 15°C.

## Purification

**Procedure**

## Extraction

**Procedure**

Cells were harvested by centrifugation at 7,000 rpm. The cell pellets were frozen in liquid

nitrogen and stored at -80°C. For the purification the cell paste was thawed and resuspended in lysis buffer (20 mM Tris, pH 8.5, 0.5 M NaCl, 5 mM imidazol, 2 mM  $\beta$ -mercaptoethanol, 5% glycerol, 0.1% CHAPS) with protease inhibitor (0.1mM phenylmethyl sulfonyl fluoride, PMSF). The cells were lysed by passing through Microfluidizer (Microfluidics Corp.) at 20,000 psi.

**Concentration:**

**Ligand**

**MassSpec:**

**Crystallization:** Purified FLJ20628 was complexed with S-adenosyl-L-methionine (SAM, Sigma) at 1:10 molar ratio of protein: SAM and crystallized using hanging drop vapor diffusion method drop at 20 °C by mixing 1.5  $\mu$ l of the protein solution with 1.5  $\mu$ l of the reservoir solution containing 11% PEG3350, 0.2M Li Citrate, 0.1 M BisTris pH 6.5, 10% PEG400.

**NMR Spectroscopy:**

**Data Collection:**

**Data Processing:**