

# Product datasheet for AR51846PU-N

### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## TGF-beta-3 (TGFB3) (24-412, His-tag) Human Protein

#### **Product data:**

**Product Type: Recombinant Proteins** 

**Description:** TGF-beta-3 (TGFB3) (24-412, His-tag) human recombinant protein, 0.5 mg

Species: Human E. coli **Expression Host:** 

**Expression cDNA Clone** 

MGSSHHHHHH SSGLVPRGSH MGSLSTCTTL DFGHIKKKRV EAIRGQILSK LRLTSPPEPT or AA Sequence: VMTHVPYQVL ALYNSTRELL EEMHGEREEG CTQENTESEY YAKEIHKFDM IQGLAEHNEL

AVCPKGITSK VFRFNVSSVE KNRTNLFRAE FRVLRVPNPS SKRNEQRIEL FQILRPDEHI AKQRYIGGKN

LPTRGTAEWL SFDVTDTVRE WLLRRESNLG LEISIHCPCH TFQPNGDILE NIHEVMEIKF

KGVDNEDDHG RGDLGRLKKQ KDHHNPHLIL MMIPPHRLDN PGQGGQRKKR ALDTNYCFRN LEENCCVRPL YIDFRQDLGW KWVHEPKGYY ANFCSGPCPY LRSADTTHST VLGLYNTLNP

EASASPCCVP QDLEPLTILY YVGRTPKVEQ LSNMVVKSCK CS

Tag: His-tag Predicted MW: 47.2 kDa lot specific Concentration:

**Purity:** >85% by SDS - PAGE

**Buffer:** Presentation State: This purified protein is available in a denatured form, making it less

suitable for functional studies. Denatured proteins are better suited for applications like

Western Blot (WB) or imaging assays.

State: Liquid purified protein

Buffer System: Liquid, In 20 mM Tris-HCl (pH 8.0) containing 10% glycerol

Preparation: Liquid purified protein

**Protein Description:** Recombinant human TGFB3, fused to His-tag at N-terminus, was expressed in E.coli.

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Storage:

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001316867

Locus ID: 7043 UniProt ID: P10600





Cytogenetics: 14q24.3

**Synonyms:** Transforming growth factor beta-3

**Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-

associated peptide (LAP) and a mature peptide, and is found in either a latent form

composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial

arrhythmogenic right ventricular dysplasia 1. [provided by RefSeq, Aug 2016]

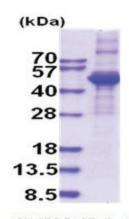
**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor

interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling

pathway

## **Product images:**



15% SDS-PAGE (3ug)