

Product datasheet for **AR09539PU-N**

Transgelin (TAGLN) (1-201, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Transgelin (TAGLN) (1-201, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MANKGPSYGM SREVQSKIEK KYDEELEERL VEVIIVQCGP DVGRPDRGRL GFQVWLKNGV ILSKLVNSLY PDGSKPKVVP ENPPSMVFKQ MEQVAQFLKA AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL MALGSLAVTK NDGHYRGDPN WFMKKAQEHK REFTESQLQE GKHVIGLQMG SNRGASQAGM TGYGRPRQII S
Tag:	His-tag
Predicted MW:	24.8 kDa
Concentration:	lot specific
Purity:	>85% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT
Preparation:	Liquid purified protein
Protein Description:	Recombinant human TAGLN protein, fused to his-tag at N-terminus was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001001522
Locus ID:	6876
UniProt ID:	Q01995 , Q5U0D2
Cytogenetics:	11q23.3
Synonyms:	SM22; SM22-alpha; SMCC; TAGLN1; WS3-10



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Summary:

This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization. [provided by RefSeq, Aug 2017]

Product images: