

## Product datasheet for **TP319070L**

### ASZ1 (NM\_130768) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ankyrin repeat, SAM and basic leucine zipper domain containing 1 (ASZ1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC219070 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAASALRGLPVAGGGESSEDDGWEIGYLDRTSQKLKRLLPIDKPKKAMTIGDVSLVQELLDSGI  
SVDSNFQYGTPLMYAASVANAELVRVLLDRGANASFEKDKQSILITACSAHGSEEQILKCVLLSRNA  
DPNVACRRLMTPIMYAARDGHTQVVALLVAHGAEVNTQDENGYTALTWAARQGHKNIVLKLELGANKML  
QTKDGKMPSEIAKRKHHEIFNLLSFTLNPLEGKQLTKEDTICKILTDSREKDHIFSSYAFGDLE  
VFLHGLGLEHMTDLLKERDITLRHLLTMREDEFTKNGITSKDQKILAAKELQVEEIQFGELSEETKLE  
ISGDEFLNLLKLNKQCGHLITAVQNVITELPVNSQKITLEWASPQNFTSVCEELVNNVEDLSEKVCCLK  
DLIQKLQNERENDPTHIQLREEVSTWNSRILKRTAITICGFGFLLFICKLTFQRK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	53.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell 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.



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RefSeq: [NP\\_570124](#)

Locus ID: 136991

UniProt ID: [Q8WWH4](#)

RefSeq Size: 1865

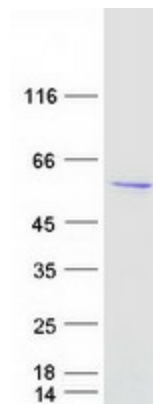
Cytogenetics: 7q31.2

RefSeq ORF: 1425

Synonyms: ALP1; ANKL1; C7orf7; CT1.19; GASZ; Orf3

**Summary:** Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with pi-bodies suggests a participation in the primary piRNAs metabolic process. Required prior to the pachytene stage to facilitate the production of multiple types of piRNAs, including those associated with repeats involved in the regulation of retrotransposons. May act by mediating protein-protein interactions during germ cell maturation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified ASZ1 protein (Cat# [TP319070]). The protein was produced from HEK293T cells transfected with ASZ1 cDNA clone (Cat# [RC219070]) using MegaTran 2.0 (Cat# [TT210002]).