

## Product datasheet for PH319070

### ASZ1 (NM\_130768) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ASZ1 MS Standard C13 and N15-labeled recombinant protein (NP_570124)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219070
Predicted MW:	53.5 kDa
Protein Sequence:	>RC219070 protein sequence Red=Cloning site Green=Tags(s)

MAASALRGLPVAGGSESEDDGWEIGYLDRTSQKLKRLPIEEKKEKFKKAMTIGDVSLVQELLDSGI  
SVDSNFQYGWTPLMYAASVANAELVRVLLDRGANASFEKDKQSILITACSAHGSEEQILKCVELLRSNA  
DPNVACRRLMTPIMYAARDGHTQVVALLVAHGAEVNTQDENGYTALTWAARQGHKNIIVLKLLELGANKML  
QTKDGMKMPSEIAKRKHHEIFNLLSFTLNPLEGKLQQLTKEDTICKILTTSDREKDHIFSSYAFGDLE  
VFLHGLGLEHMTDLLKERDITLRHLLTMREDEFTKNGITSKDQQKILAALKELQVEEIQFGELSEETKLE  
ISGDEFLNFKLKLKQCGLHITAVQNVITELPVNSQKITLEWASPQNFTSVCEELVNNVEDLSEKVCCLK  
DLIQKLQNERENDPHTHIQLREEVSTWNSRILKRTAITICGFGFLLFICKLTFQRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_570124</a>
RefSeq Size:	1865
RefSeq ORF:	1425
Synonyms:	ALP1; ANKL1; C7orf7; CT1.19; GASZ; Orf3



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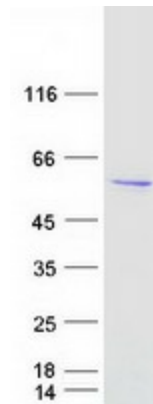
Locus ID: 136991

UniProt ID: [Q8WWH4](#)

Cytogenetics: 7q31.2

**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]).