

## Product datasheet for TP301130

### ASS1 (NM\_054012) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human argininosuccinate synthetase 1 (ASS1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201130 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSSKGSVWLAYSGLDTSILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSREFVE  
EFIWPAIQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRFELSCYSLAPQIK  
VIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIVTPKPNWSDENLMHISYEAGILENPKNQAPPGLYTKT  
QDPAKAPNTPDILEIEFKKGVPVKVTNVKDGTTHTQSLELFMYLNEVAGKHGTVGRIDIVENRFIGMKSRG  
IYETPAGTILYHAHLDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECFVRHClAKSQERVEGKVQ  
VSVLKGQVYILGRESPLSLYNEELVSMNVQGDYEPTDATGFININSLRLKEYHRLQSKVTAK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

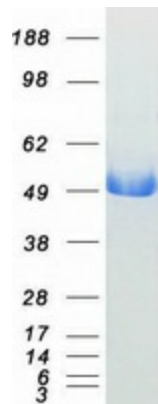
Tag:	C-Myc/DDK
Predicted MW:	46.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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.
RefSeq:	<u><a href="#">NP_446464</a></u>



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Locus ID:	445
UniProt ID:	<a href="#">P00966</a> , <a href="#">Q5T6L4</a>
RefSeq Size:	1801
Cytogenetics:	9q34.11
RefSeq ORF:	1236
Synonyms:	ASS; CTLN1
Summary:	The protein encoded by this gene catalyzes the penultimate step of the arginine biosynthetic pathway. There are approximately 10 to 14 copies of this gene including the pseudogenes scattered across the human genome, among which the one located on chromosome 9 appears to be the only functional gene for argininosuccinate synthetase. Mutations in the chromosome 9 copy of this gene cause citrullinemia. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Aug 2012]
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified ASS1 protein (Cat# TP301130). The protein was produced from HEK293T cells transfected with ASS1 cDNA clone (Cat# [RC201130]) using MegaTran 2.0 (Cat# [TT210002]).