

## Product datasheet for **TP300595L**

### **RNase H1 (RNASEH1) (NM\_002936) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribonuclease H1 (RNASEH1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC200595 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MSWLLFLAHRVALAALPCRRGRSGFGMFYAVRRGRKTGVFLTWNECRAQVDRFPAARFKKFATEDEAWAF  
VRKSASPEVSEGHENQHGGQSEAKASKRLREPLDGDGHESAEPYAKHMKPSVEPAPPVSRDTFSYMGDFV  
VYTDGCCSSNGRRRPRAGIGVYWGPGHPLNVGIRLPGRQTNQRAEIHAACKAIEQAKTQNINKLVLYTD  
SMFTINGITNWVQGWKKNWGWKTSAGKEVINKEDFVALERLTQGMDIQWMHVPGHSGFIGNEEADRLAREG  
AKQSED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	31.9 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:	<a href="#">NP_002927</a>
Locus ID:	246243



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UniProt ID: [O60930](#), [E5KN15](#)

RefSeq Size: 1865

Cytogenetics: 2p25.3

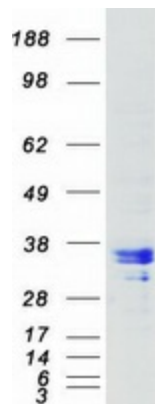
RefSeq ORF: 858

Synonyms: H1RNA; PEOB2; RNH1

**Summary:** This gene encodes an endonuclease that specifically degrades the RNA of RNA-DNA hybrids and plays a key role in DNA replication and repair. Alternate in-frame start codon initiation results in the production of alternate isoforms that are directed to the mitochondria or to the nucleus. The production of the mitochondrial isoform is modulated by an upstream open reading frame (uORF). Mutations in this gene have been found in individuals with progressive external ophthalmoplegia with mitochondrial DNA deletions, autosomal recessive 2. Alternative splicing results in additional coding and non-coding transcript variants. Pseudogenes of this gene have been defined on chromosomes 2 and 17. [provided by RefSeq, Jul 2017]

**Protein Pathways:** DNA replication

### Product images:



Coomassie blue staining of purified RNASEH1 protein (Cat# [TP300595]). The protein was produced from HEK293T cells transfected with RNASEH1 cDNA clone (Cat# [RC200595]) using MegaTran 2.0 (Cat# [TT210002]).