

## Product datasheet for PH300595

### RNase H1 (RNASEH1) (NM\_002936) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	RNASEH1 MS Standard C13 and N15-labeled recombinant protein (NP_002927)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200595
Predicted MW:	32.1 kDa
Protein Sequence:	>RC200595 protein sequence Red=Cloning site Green=Tags(s)  MSWLLFLAHRVALAALPCRRGSRGFMFYAVRRGRKTGVFLTWNECRAQVDRFPAARFKKFATEDEAWAF VRKSASPEVSEGHENQHGESEAKASKRLREPLDGDGHESAEPYAKHMKPSVEPAPPVSRDTFSYMGDFV VYYTDGCCSSNGRRRPRAGIGVYWGPGLNVGIRLPGRQTNQRAEIIHAACKAIEQAKTQNKLVLYTD SMFTINGITNWWQGWKKNWKTSAKKEVINKEDEFVALERLTQGMDIQWMHVPGHSGFIGNEEADRLAREG AKQSED  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u><a href="#">NP_002927</a></u>
RefSeq Size:	1865
RefSeq ORF:	858
Synonyms:	H1RNA; PEOB2; RNH1
Locus ID:	246243



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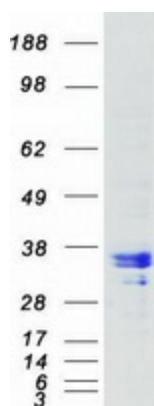
UniProt ID: [O60930](#), [E5KN15](#)

Cytogenetics: 2p25.3

**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]).