

## Product datasheet for **TP301539**

### NDUFA5 (NM\_005000) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa (NDUFA5), nuclear gene encoding mitochondrial protein, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201539 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MAGVLKKTGLVGLAVCNTPHERLRILYTKILDVLEEIPKNAAYRKYTEQITNEKLAMVKAEPDVKKLED QLQGGQLEEVILQAEHELNLARKMREWKLWEPLVEEPPADQWKWPI
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	13.3 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:	<a href="#">NP_004991</a>
Locus ID:	4698
UniProt ID:	<a href="#">Q16718</a> , <a href="#">A0A024R745</a>
RefSeq Size:	5602



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Cytogenetics: 7q31.32

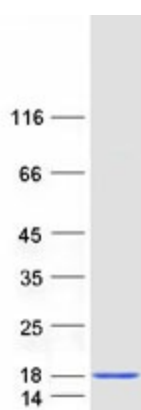
RefSeq ORF: 348

Synonyms: B13; CI-13kB; CI-13KD-B; NUFM; UQOR13

**Summary:** This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

### Product images:



Coomassie blue staining of purified NDUFA5 protein (Cat# TP301539). The protein was produced from HEK293T cells transfected with NDUFA5 cDNA clone (Cat# [RC201539]) using MegaTran 2.0 (Cat# [TT210002]).