

## Product datasheet for **TP310340L**

### p53R2 (RRM2B) (NM\_015713) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ribonucleotide reductase M2 B (TP53 inducible) (RRM2B), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210340 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGDPERPEAAGLDQDERSSSDTNESEIKSNEEPLLRKSSRRFVIFPIQYPDIWKMYKQAQASFWTAEVVD            LSKDLPHWNKLKADEKYFISHILAFFAASDGVNENLVERFSQEVQVPEARCFYGFQILINHVHSEMYSL            LIDTYIRDPKKREFLNAIETMPYVKKKADWALRWIADRKSTFGERVVAFAAVEGVFFSGSFAAIFWLKK            RGLMPGLTFSNELISRDEGLHCDFACLMFQYLVNKPSEERVREIIVDAVKIEQEFLTEALPVGLIGMNCI            LMKQYIEFVADRLLVELGFSKVFQAENPFDPMENISLEGKTNFFFEKRVSEYQRFVAVMAETTDNVFTLDAD            F</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	40.6 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_056528</a></u>



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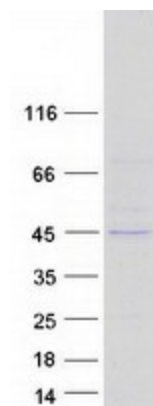
Locus ID: 50484  
UniProt ID: [Q7LG56](#)  
RefSeq Size: 4932  
Cytogenetics: 8q22.3  
RefSeq ORF: 1053  
Synonyms: MTDPS8A; MTDPS8B; P53R2

**Summary:** This gene encodes the small subunit of a p53-inducible ribonucleotide reductase. This heterotetrameric enzyme catalyzes the conversion of ribonucleoside diphosphates to deoxyribonucleoside diphosphates. The product of this reaction is necessary for DNA synthesis. Mutations in this gene have been associated with autosomal recessive mitochondrial DNA depletion syndrome, autosomal dominant progressive external ophthalmoplegia-5, and mitochondrial neurogastrointestinal encephalopathy. Alternatively spliced transcript variants have been described.[provided by RefSeq, Feb 2010]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Glutathione metabolism, Metabolic pathways, p53 signaling pathway, Purine metabolism, Pyrimidine metabolism

### Product images:



Coomassie blue staining of purified RRM2B protein (Cat# [TP310340]). The protein was produced from HEK293T cells transfected with RRM2B cDNA clone (Cat# [RC210340]) using MegaTran 2.0 (Cat# [TT210002]).