

Product datasheet for **TP504930**

Tor1a (NM_144884) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse torsin family 1, member A (torsin A) (Tor1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR204930 protein sequence Red =Cloning site Green =Tags(s)
	<p>MKLGRAALALLLLAPCVVRAVEPISLSLALAGVLTITYISYPRLYCLFAECCGQMRSLSREALQKDLDNKL FGQHLAKKVLNAVSGFLSNPKPKPLTSLHGWTGTGKNFASKIIAENIYEGGLNSDYVHLFVATLHFP HASNITQYKDQLQMWIRGNVSACARSIFIDEMDKMHAGLIDAIKPFLDYDDEVSYQKAIFILSNA GAERITDVALDFWKSQKREEIKLRDMEPALAVSVFNNKNSGFWHSSLIDRNLIIDYFVFPFLPLEYKHLKM CIRVEMQSRGYEVEDDIISKVAEEMTFFPKKEEKVFSKDGCKTVFTKLDYYLDD</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	37.8 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
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 after receiving vials.
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:	NP_659133
Locus ID:	30931
UniProt ID:	Q9ER39 , Q3TV62



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RefSeq Size: 1452

Cytogenetics: 2 B

RefSeq ORF: 1002

Synonyms: DQ2; Dyt1; torsinA

Summary: Protein with chaperone functions important for the control of protein folding, processing, stability and localization as well as for the reduction of misfolded protein aggregates. Involved in the regulation of synaptic vesicle recycling, controls STON2 protein stability in collaboration with the COP9 signalosome complex (CSN). In the nucleus, may link the cytoskeleton with the nuclear envelope, this mechanism seems to be crucial for the control of nuclear polarity, cell movement and, specifically in neurons, nuclear envelope integrity. Participates in the cellular trafficking and may regulate the subcellular location of multipass membrane proteins such as the dopamine transporter SLC6A3, leading to the modulation of dopamine neurotransmission. In the endoplasmic reticulum, plays a role in the quality control of protein folding by increasing clearance of misfolded proteins such as SGCE variants or holding them in an intermediate state for proper refolding. May have a redundant function with TOR1B in non-neural tissues.[UniProtKB/Swiss-Prot Function]