Recombinant Mouse Tsen54 Protein, Myc/DDK-tagged

Cat. No. Tsen54-6682M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length tRNA splicing endonuclease subunit 54 (Tsen54), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Non-catalytic subunit of the tRNA-splicing endonuclease complex, a complex responsible for identification and cleavage of the splice sites in pre-tRNA. It cleaves pre-tRNA at the 5' and 3' splice sites to release the intron. The products are an intron and two tRNA half-molecules bearing 2',3' cyclic phosphate and 5'-OH termini. There are no conserved sequences at the splice sites, but the intron is invariably located at the same site in the gene, placing the splice sites an invariant distance from the constant structural features of the tRNA body. The tRNA splicing endonuclease is also involved in mRNA processing via its association with pre-mRNA 3'-end processing factors, establishing a link between pre-tRNA splicing and pre-mRNA 3'-end formation, suggesting that the endonuclease subunits function in multiple RNA-processing events.
Molecular Mass	59.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Tsen54 tRNA splicing endonuclease subunit 54 [Mus musculus (house mouse)]
Official Symbol	Tsen54
Synonyms	Tsen54; tRNA splicing endonuclease subunit 54; 0610034P02Rik; tRNA-splicing endonuclease subunit Sen54; likely ortholog of H. sapiens SEN54L; tRNA splicing endonuclease 54 homolog; tRNA-intron endonuclease Sen54
Gene ID	76265
mRNA Refseq	NM_029557
Protein Refseq	NP_083833
UniProt ID	Q8C2A2

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