

Recombinant Mouse Trmt112 Protein, Myc/DDK-tagged

Cat. No. Trmt112-1350M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length RIKEN cDNA 0610038D11 gene (cDNA clone MGC:30341 IMAGE:4162006), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as an activator of both rRNA/tRNA and protein methyltransferases. Together with methyltransferase BUD23, methylates the N7 position of a guanine in 18S rRNA. The heterodimer with HEMK2/N6AMT1 catalyzes N5-methylation of ETF1 on 'Gln-185', using S-adenosyl L-methionine as methyl donor. The heterodimer with ALKBH8 catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA species. Involved in the pre-rRNA processing steps leading to small-subunit rRNA production. Together with methyltransferase METTL5, specifically methylates the 6th position of adenine in position 1832 of 18S rRNA.
Molecular Mass	12.2 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	Trmt112 tRNA methyltransferase 11-2 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Trmt112
Synonyms	Trmt112; tRNA methyltransferase 11-2; Trm11; Trm112p; 0610038D11Rik; multifunctional methyltransferase subunit TRM112-like protein; TRM112-like protein; tRNA methyltransferase 11-2 homolog; tRNA methyltransferase 112 homolog
Gene ID	67674
mRNA Refseq	NM_026306
Protein Refseq	NP_080582
UniProt ID	Q9DCG9

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