

Recombinant Human POLRMT, His-tagged

Cat. No. POLRMT-27748TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1051-1230 of Human mtRNA polymerase with an N-terminal His tag; MWt 21 kDa.
Species	Human
Source	E.coli
ProteinLength	1051-1230 a.a.
Description	This gene encodes a mitochondrial DNA-directed RNA polymerase. The gene product is responsible for mitochondrial gene expression as well as for providing RNA primers for initiation of replication of the mitochondrial genome. Although this polypeptide has the same function as the three nuclear DNA-directed RNA polymerases, it is more closely related to RNA polymerases of phage and mitochondrial polymerases of lower eukaryotes.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 79 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	QHWLTESARLISHMGSVVEWVTPLGVPVIQPYRLDSKVKQ IGGGIQSITYTHNGDIS RKPNTTRKQKNGFPPNFIHSLD SSHMMLTALHCYRKGLTFVSVHDCYWTHAADVSV MNQV CREQFVRLHSEPILQDLSRFLVKRFCSEPQKILEASQL KETLQAVPKPGAFD LEQVKRSTYFFS
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Sequence Similarities	Belongs to the phage and mitochondrial RNA polymerase family.
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GENE INFORMATION

Gene Name	POLRMT polymerase (RNA) mitochondrial (DNA directed) [Homo sapiens]
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Official Symbol	POLRMT
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Synonyms	POLRMT; polymerase (RNA) mitochondrial (DNA directed); DNA-directed RNA polymerase, mitochondrial; APOLMT; h mtRPOL; MTRNAP; MTRPOL;
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Gene ID	5442
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mRNA Refseq	NM_005035
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Protein Refseq	NP_005026
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MIM	601778
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Uniprot ID	O00411
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Chromosome Location	19p13.3
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Pathway	Mitochondrial Gene Expression, organism-specific biosystem; Mitochondrial transcription initiation, organism-specific biosystem; RNA Polymerase I, RNA
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Polymerase III, and Mitochondrial Transcription, organism-specific biosystem;
Transcription, organism-specific biosystem; Transcription from mitochondrial
promoters, organism-specific biosystem;

Function

DNA binding; DNA-directed RNA polymerase activity; DNA-directed RNA polymerase
activity; nucleotidyltransferase activity; protein binding;

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