

Product datasheet for **RG210501**

mtRNA polymerase (POLRMT) (NM_005035) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	mtRNA polymerase (POLRMT) (NM_005035) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	mtRNA polymerase
Synonyms:	APOLMT; h-mtRPOL; MTRNAP; MTRPOL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210501 representing NM_005035 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210501 representing NM_005035
 Red=Cloning site Green=Tags(s)

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MSALCWGRGAAGLKRALRPCGRPLPGKEGTAGGVCGRPRSSASPQEQDQRRKDWGHVELLEVLQARV
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TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

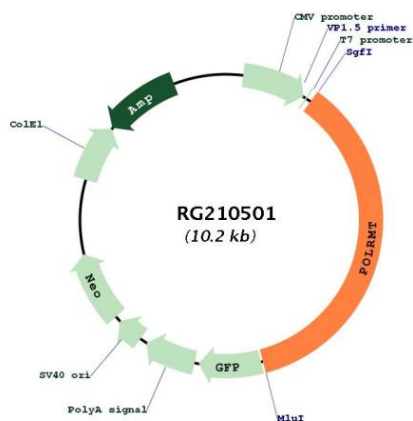


ACCN: NM_005035

ORF Size: 3690 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005035.3 , NP_005026.3
RefSeq Size:	3800 bp
RefSeq ORF:	3693 bp
Locus ID:	5442
UniProt ID:	O00411
Cytogenetics:	19p13.3
Protein Families:	Transcription Factors
Gene Summary:	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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210501