

Product datasheet for **SC124101**

mtRNA polymerase (POLRMT) (NM_005035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	mtRNA polymerase (POLRMT) (NM_005035) Human Untagged Clone
Tag:	Tag Free
Symbol:	mtRNA polymerase
Synonyms:	APOLMT; h-mtRPOL; MTRNAP; MTRPOL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124101 sequence for NM_005035 edited (data generated by NextGen Sequencing)

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ATGTCGGCACTTTGCTGGGGCCGCGGAGCGGGGGCTCAAACGAGCCCTACGGCCTTGC
GGCCGCCCGGGACTCCCCGGCAAAGAAGGACCGCGGTGGCGTCTGCGGCCCCAGGAGG
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Clone variation with respect to NM_005035.3

879 t=>c;1664 a=>c;1986 t=>c;2628 c=>t;2635 t=>c;3243 c=>g

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005035 unedited TATAGGGCGGCCGCAATTCGGCACGAGCGACCATGAAACCACAACCTCCCGGCAGGCGGC CGGGGCGCATGCGCAGGCGCGGGCCGTGGGGTGGCCTGGAGCGGCGTGCCTAATGTCGGC ACTTTGCTGGGGCCGCGGAGCGGCGGGGCTCAAACGAGCCCTACGGCCTTGCGGCCGCCC GGGACTCCCCGGCAAAGAAGGGACCGCCGGTGGCGTCTGCGGCCCCAGGAGGAGCTCGTC CGCCAGCCCCCAGGAGCAAGACCAAGACCGCAGGAAGGACTGGGGCCACGTGGAGCTGCT GGAGGTGCTCCAGGCGCGGGTGCGGCAGCTGACAGCTGAGAGCGTGTGCGAGGTGGTGGT GAACAGGTGGATGTGGCGCGGCTCCCAGAATGTGGCAGTGGAGATGGTAGCCTCCAGCC ACCCAGGAAGGTCCAGATGGGGGCCAAGGATGCCACCCCGGTGCCCTGTGGCCGCTGGGC AAAGATACTGGAGAAGGATAAGCGGACCCAGCAGATGCGTATGCAGCGGTTGAAGGCGAA GCTGCAGATGCCATTCCAGAGCGGGGAGTTCAAGGCGCTGACCAGGCGCTGCAGGTGGA GCCCNCGCTCCTGAGCAAGCAGATGGCCGGTGCCTGGAGGACTGCACGCGCCAGGCCCC CGAGAGCCCTGGGAGGACAGCTGGCCCGCTGCTGCAGGAGGCCCTGGGAGCTGAGCCTC ATGTTGAGCAGCCCGTCGGG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005035 unedited GGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGCTA TGACCGCGGCCCAATCTAGAGTCGAGCTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGG TGGCAAAAGAGCTTTATTTACACACTGACAAGGCTCACGGGGTGTCAACTGAAGAAGTAG GTGGAACGCTTACCTGCTCCAGGTCGAAGGCCCTGGCTTGGGCACCGCTGCACTGTC TCCTTCAGCTGGCTGGCTCCAAGATCTTCTGGGGCTCAGAGCATAACCGCTTGACCAGG AATCTGGACAGGTCTGCAAGATGGGCTCCCTGTGCAAGCGGACAACTGCTCCCGGCAC ACCTGGTTTCATGACGGAGACATCAGCTGCGTGAGTCCAGTAACAGTTCGTGCACAGAGACG AAGGTCAGGCCCTTCTGTAGCAATGCAGGGCGGTGAGCATCATGTGGGAGGAGTCCACC GAGTGGATGAAGTTGGGCGGGAAGCCGTTCTTCTGCTTACGTGTGTTGGGCTTTCGGCTG ATGTCTCCGTTGTGGGTGTACGTGATGCTCTGAATTCACCTCCTATTTGCTTGACCTTG GAGTCCAGGCGATACAGCTGGATGACGAGGACGCCCACGGGTGTGACCCACTCCACCCCG GAGCCCATGTGGGACATGAGGCGCACTCTCGGTCAACCAATGCTGGATTGCCCGGTACC CGAGACATCTCCGAACTCTTGAGACCCGCGGCCT
Restriction Sites:	Please inquire
ACCN:	NM_005035
Insert Size:	3700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.

RefSeq: [NM_005035.2](#), [NP_005026.2](#)

RefSeq Size: 3832 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]