

Product datasheet for **RG206805**

MRPP3 (KIAA0391) (NM_014672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPP3 (KIAA0391) (NM_014672) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MRPP3
Synonyms:	KIAA0391; MRPP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206805 representing NM_014672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGACTTTCTATTGTTTGGTATTCTGAAGCTTTCCGAAGCTTTGGAAGAGCCCATACCTTGGGCTAGGCC
 CAGGGCACTCTTATGTGTCGCTGTTTCTGGCAGACCGCTGTGGCATCAGGAACAGCAGAGTTGTTTTTC
 TCTTAAACAATGTCTCCACAGAATACCAAGCAACGAATCTGATTGCCAAGGCCAGATATCTCAGGAAA
 GATGAGGGCAGTAATAAGCAAGTTTATTCTGTTCTCATTTTTTTTTAGCTGGAGCAGCTAAGGAGAGAT
 CACAGATGAATTCTCAAAGTGAAGATCATGCCTTGGCACCTGTGAGGAACACTATTCAACTCCCAACACA
 ACCTTTGAATTCAGAGGAGTGGGATAAACTTAAGGAAGATTTAAAGAAAAACCCGGAAGACCACTTTC
 GAAAGTTGGATCATTTACAGATGGCTGGCTGTCATAGCTCTATAGATGTGGCTAAATCTCTGCTGGCAT
 GGGTAGCAGCCAAAAAATATGGTATTGTAAGTTACGATTTACTGGTCAAGTATTTGTATCTGTGTCTT
 TCATATGCAGACATCTGAAGTTATTGATGTCTTTGAAATTATGAAAGCCAGATATAAGACTTTAGAACCT
 AGAGGTTACAGTCTTCTCATCCGGGATTGATCCATTCAGACAGATGGAGAGAAGCATTGTTGCTGTTAG
 AGGACATCAAAAAAGTTATAACTCCTTCAAAAAAGAACTATAATGACTGTATCCAGGGAGCTCTCCTTCA
 TCAAGATGTAAACACAGCTTGAATTTATATCAGGAATTGCTAGGTCATGATATTGTTTCTATGTTGAA
 ACTTTAAAGCTTTCTTTGATTTTGAAAAAGACATAAAGGATGATAACTATTCAAATAAACTACTAGATA
 TTCTTTTATATCTAAGAAATAATCAGCTGTATCCAGGGGAGTCATTTGCACACAGTATAAAACATGGTT
 TGAGAGTGTTCTTGAAAAACAATGGAAAGGACAATTCACCACAGTCCGAAAAAGTGCCAGTGTTCCGGGC
 TGTGAAAAAACCATAGAGTCTATTCAGCTGAGTCCAGAAGAATATGAATGTCTTAAGGGAAAAATCATGA
 GGGATGTGATAGATGGAGGTGACCAAGTACAGAAAGACAACACCTCAGGAAGTAAAGAGATTGAGAACTT
 CATAAAATCTCGTCCTCTTTTGTGTTGTCATTGATGGTCTCAATGTTGCCAAAATGTTTCTTAAAGTT
 CGTGAATCTCAACTTCTCTTGAATGTCGTCTCTCAACTAGCCAAACGGAATCTGCGACTGCTGGTCTAG
 GCCGGAAGCACATGCTAAGACGGAGTTCAGTGGAGTCCGGATGAGATGGAAGAGGTGCAAAAGCAAGC
 CAGCTGTTTTTTTGTGATGACATCTCGGAGGATGATCCATTCTTCTGTATGCCACACTGCACTCCGGG
 AATCACTGCAGGTTTATCACAAGAGACCTGATGCGGGACCACAAGGCCTGTCTGCCTGATGCCAAGACCC
 AACGCCTGTTTTTAAAGTGGCAGCAGGGACATCAGCTGGCAATTGTAATAGGTTTCCAGGATCAAACT
 AACCTTTACAGCTATTCTCAGCTATGACACAGTGGTGAACAACCTGGAGACTCGTGGCACATACCATAT
 GATGAAGACTTGGTAGAAAGATGTTCTGTGAAGTACCAACCAATGGCTTTGCCTCCACCAAAAGACA

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206805 representing NM_014672
 Red=Cloning site Green=Tags(s)

MTFYLFGIRSFPLWKSPYLGLGPGHSYVSLFLADRCGIRNQRLFLSKTMSPQNTKATNLIKARYLRK
 DEGSNKQVYSVPHFFLAGAAKERSQMNSQTEDHALAPVRNTIQLPTQPLNSEWDKLKEDLKENTGKTSF
 ESWIISQMAGCHSSIDVAKSLLAWAAKNNGIVSYDLLVKYLYLCVFMQTSEVIDVFEIMKARYKTLEP
 RGYSLIRGLIHSDRWREALLLLEDIKKVITPSKKYNDICIQALLHQDVNTAWNLYQELLGHDIVPMLE
 TLKAFFDFGKDIKDDNYSNKLDDILSYLRNNQLYPGESFAHSIKTWFSVPGKQWKQFTTVRKSGQCSG
 CGKTIESIQLSPEEYECLKGIMRDVIDGGDQYRKTTPQELKRFENFIKSRRPFDVVIDGLNVAKMFPKV
 RESQLLNVSQVLAQRNLRLLVLGRKHMLRRSSQWSRDEMEEVQKQASCFADDISEDDPFLLYATLHSG
 NHCRFITRDLMRDHKACLPDAKTQRLFFKWQGHQLAIVNRFPGSKLTFQRILSYDVTVVQTTGDSWHIPY
 DEDLVERCSCEVPTKWLCLHQKT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014672

ORF Size: 1749 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_014672.2](#), [NP_055487.2](#)

RefSeq Size: 2684 bp

RefSeq ORF: 1752 bp

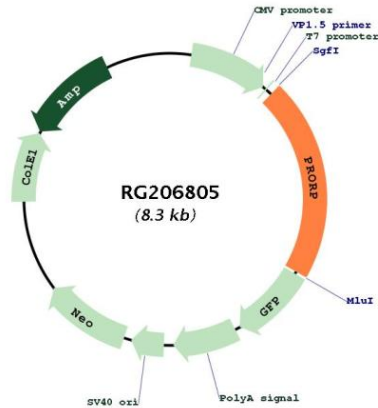
Locus ID: 9692

UniProt ID: O15091

Cytogenetics: 14q13.2

Gene Summary: Catalytic ribonuclease component of mitochondrial ribonuclease P, a complex composed of TRMT10C/MRPP1, HSD17B10/MRPP2 and MRPP3, which cleaves tRNA molecules in their 5'-ends (PubMed:18984158, PubMed:25953853). The presence of TRMT10C/MRPP1, HSD17B10/MRPP2 is required to catalyze tRNA molecules in their 5'-ends (PubMed:25953853).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206805