

Product datasheet for **SC114901**

MRPP3 (KIAA0391) (NM_014672) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MRPP3 (KIAA0391) (NM_014672) Human Untagged Clone
Tag:	Tag Free
Symbol:	MRPP3
Synonyms:	KIAA0391; MRPP3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114901 sequence for NM_014672 edited (data generated by NextGen Sequencing)

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ATGACTTTCTATTTGTTTGGTATTCTGAAGCTTTCCGAAGCTTTGGAAGAGCCCATACCTT
GGGCTAGGCCCAGGGCACTCTTATGTCTCGCTGTTTCTGGCAGACCGCTGTGGCATCAGG
AACCAGCAGAGGTTGTTTTCTCTTAAACAATGTCTCCACAGAATACCAAAGCAACGAAT
CTGATTGCCAAGGCCAGATATCTCAGGAAAGATGAGGGCAGTAATAAGCAAGTTTATTCT
GTTCTCATTTTTTTTTAGCTGGAGCAGCTAAGGAGAGATCACAGATGAATTCTCAAAC
GAAGATCATGCCTTGGCACCTGTGAGGAACACTATTCAACTCCCAACACAACTTTGAAT
TCAGAGGAGTGGGATAAACTTAAGGAAGATTTAAAGAAAAACACCGGAAAGACCACTTTC
GAAAGTTGGATCATTTACAGATGGCTGGCTGTCATAGCTCTATAGATGTGGCTAAATCT
CTGCTGGCATGGGTAGCAGCCAAAAATAATGGTATTGTAAGTTACGATTTACTGGTCAAG
TATTTGTATCTCTGTCTTTTCATATGCAGACATCTGAAGTTATTGATGTCTTTGAAAT
ATGAAAGCCAGATATAAGACTTTAGAACCTAGAGGTTACAGTCTTCTCATCCGGGGATTG
ATCCATTACAGACAGATGGAGAGAAGCATTGTTGCTGTTAGAGGACATCAAAAAAGTTATA
ACTCCTTCAAAAAAGAACTATAATGACTGTATCCAGGGAGCTCTCCTTCATCAAGATGTA
AACACAGCTTGAATTTATATCAGGAATTGCTAGGTCATGATATTGTTCTTATGTTGGAA
ACTTTAAAGCTTTCTTTGATTTTGAAAAAGACATAAAGGATGATAACTATTCAAATAAA
CTACTAGATATTCTTTCATATCTAAGAAATAATCAGCTGTATCCAGGGGAGTCATTTGCA
CACAGTAAAAACATGGTTTGAGAGTGTTCCTGGAAAAACATGGAAAGGACAATTCACC
ACAGTCCGAAAAAGTGGCCAGTGTTCGGGCTGTGGAAAAACCATAGAGTCTATTACAGCTG
AGTCCAGAAGAATATGAATGTCTTAAGGGAAAAATCATGAGGGATGTGATAGATGGAGGT
GACCAGTACAGAAAGACAACACCTCAGGAACCTAAGAGATTTGAGAACTTCATAAAATCT
CGTCTCTCTTTGATGTTGTCTATTGATGGTCTCAATGTTGCCAAATGTTTCTAAAGTT
CGTGAATCTCAACTTCTCTTGAATGTCTCTCAACTAGCCAAACGGAATCTGCCAGCTG
CTGGTCTAGGCCGGAAGCACATGCTAAGACGGAGTTCCAGTGGAGTCGGGATGAGATG
GAAGAGGTGCAAAAGCAAGCCAGCTGTTTTTTTGTGATGACATCTCGAGGATGATCCA
TTCCTTGTATGCCCACTGCACTCCGGGAATCACTGCAGGTTTATCACAAGAGACCTG
ATGCGGGACCAAGGCCTGTCTGCCTGATGCCAAGACCAACGCCTGTTTTTAAAGTG
CAGCAGGGACATCAGCTGGCAATTGTAATAGGTTTCCAGGATCAAACTAACCTTTAG
CGTATTCTCAGCTATGACACAGTGGTGCAAACTGAGAGTCTGTCGACATACCATAT
GATGAAGACTTGGTAGAAAGATGTTCTGTGAAGTACCAACCAATGGCTTGCCTCCAC
CAAAAGACATAG
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Clone variation with respect to NM_014672.2
87 g=>c;1288 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014672 unedited

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NGATGGTTCACCATTTGTATACGACTCACTATAGCGGCCGCGATTTCGGCACGAGGCTGT
AGAGAGCTATGCAGGGTGAAGGGCCCTAGACTTCGGCTTTTCGCCGCTGTTGGTGGTTCAT
GAACTGGAATGTAAGAGGCACAGAGGATTCCTGCTCTGTCCCCTGGTTTGCAGGCTTGC
ACGTTGGACATCCCCGATTGTTGTTTAAAGAGAAAACCTGCCTTCTGCTTTTA
AGTAGCCCCAAAAGCAGAACCTTGATTTGTCTGTAAGGAAGAAACACAAACCTTTTAAAA
AGTTCCACTTCGACTCTGCACCGCCGACCCCAATCTCTTTAATTTTGCATAGAAGAGG
GGTTTTTCAACATCTCTCTCACTATCTGGTGTGATCTCACTGCATAATGACTTTCTAT
TTGTTTGGTATTCTGAAGCTTTCCGAAGCTTTGGAAGAGCCCATACCTTGGGCTAGGCCCA
GGGCACTCTTATGTCTCGCTGTTTCTGGCAGACCGCTGTGGCATCAGGAACCAAGCAGAGG
TTGTTTTCTCTTAAACAATGTCTCCACAGAATACCAAAGCAACGAATCTGATTGCCAAG
GCCAGATATCTCAGGAAAGATGAGGGCAGTAATAAGCAAGTTTATTCTGTTCTCATTCT
TTTTTAGCTGGAGCAGCTAAGGAGAGATCACAGATGAATTCTCAAACCTGAAGATCATGCC
TTGGCACCTGTGAGGAACACTATTCAACTCCCAACACAACCTTTGAATTCAGAGGAGTGG
GATAAACCTTAAGAAGATTTAAAGAAACACCGGAAGACCAAGTTTCGAAAGTTGGATCAT
TCACAGATGGCTGCCTGTCATAGCTCTATAGATGTGGCTAAATCCTTGCTG
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014672 unedited <pre> AGTTTAATACAGTTGACGATAAAGATTCTGTGGATAGGGCATAACATACAGAGAATGAG ACTATGCCAGAAATGGGAGGAGGCATTTNGAAACAACATGAGTATCTCAGGGACAGATGG ATTGATTCTGCTATTGGTAGGCCTGGAAGGCAAGGTCAGAAGTAGCAAAAAATGGATACC AAAAGCACTATTAGTCACCCAAGCTAAGTGAATAGCTGGCCAGTAGGAGAAATGCAGG TTTTGCTCTACACTAAGTTCTCCAACCTTGATAAGCCTCCAAAAACAAATGTTAGGGGA AAAAACGCAGCTGGTTATGAAAAGATATCTCATTTTCAATAAAAATCAATGTCAATG CTGTTAATAGAATCCTTTTATCTTCAGGACAGAGGCAATGCCCTAAACAACACCAGCTC AAGAGCCTCTGATGCCAACCTAGAGGGTACCCAAACACAACTTAGCATAGAGGTAAGAA TCTCTATGTCTTTTGGTGGAGGCAAGCCATTTGGTTGGTACTTCACAGGAACATCTTTC TACCAAGTCTTCATCATATGGTATGTGCCACGAGTCTCCAGTTGTTTGCACCACTGTGTC ATAGCTGAGACTACGCTGAAAGGTTAGTTTGTATCCTGCAAACCTATTTACAATTGCCAC CTGATGTCCTGCTGCCACTTAAAAACAGCCGTTGGGTTTTGGCATCAAGCAGACAAGGC TTGTGGTCCCCGCATAGGCTCCTTTGTGATAAACCTTGAATCACTCCGCGACGCACATG GTGGCTTACCAAACGGACGGGCCACCTCTCCGCGTAGTTATCACCTAAAAATACCCCTGG CTTGCTCTGCACCCTCTTCACTAATTCTCCCTTCACTGGCACCCCTTAACATTGTCT TCCTGTCTAGAACACCACCCCTAACTTCTCGTTTTTATGCCTCCATCCATCCATGCGC TCTCGCCCTTCTGAACCCCGTGCCATCCACCCTCCCGTTTTCCATTGGGTTCCACCTT TTATACTCTTATAT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014672
Insert Size:	2700 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:	<u>NM_014672.2</u> , <u>NP_055487.2</u>
RefSeq Size:	2684 bp
RefSeq ORF:	1752 bp
Locus ID:	9692
UniProt ID:	<u>O15091</u>
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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).