

Product datasheet for **SC324823**

MTRES1 (NM_001142468) Human Untagged Clone

Product data:

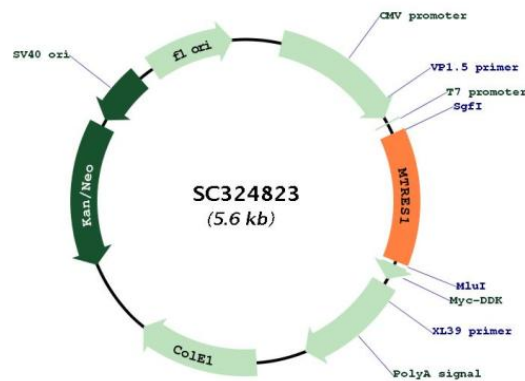
Product Type: Expression Plasmids
Product Name: MTRES1 (NM_001142468) Human Untagged Clone
Tag: Tag Free
Symbol: MTRES1
Synonyms: C6orf203; HSPC230; PRED31
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC324823 representing NM_001142468.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTATGGCTAGTGTTAAATTGCTTGCCGGTGTTTAAGAAAGCCAGATGCCTGGATTGGACTCTGG
GGTGTTCCTCCGAGGGACACCTTCATCATACAACTCTGTACTTCTGGAATCGATACTTGTATTTTTCT
AGTACCAAGTTACGTGCACCAAATTATAAAACACTTTTTTATAATTTTTCTCACTGAGACTCCCAGGG
CTTTTACTATCTCCAGAATGTATTTTCTTTTTCCGTAAGACTCAAAGTAATATAAGGCTACAAAA
TCTACTAAAAAGTCTCTGAAAAAGTAGATGAAGAGGACTCTGATGAAGAAAGCCATCATGATGAGATG
AGTGAGCAGGAAGAGGAGCTTGAGGATGATCCTACTGTAGTCAAAAATAAAGACCTGGAAAAAGCA
GTTCAAGTCTTTTCGGTATGATGTTGTCCTGAAGACGGGGCTAGATATTGGGAGAAACAAAGTGAAAGAT
GCTTTCTACAAAGGTGAACTCAGGCTGAATGAGAAAAATTATGGAAGAAAAGCAGAACGGTGAAAGTG
GGAGATACATTGGATCTTCTCATTGGAGAGGATAAAGAAGCAGGAACAGAGACAGTTATGCGGATTCTC
TTGAAAAAGTGTGTTGAAGAGAAGACTGAAAGTAAAAATACAGAGTGGTGTACGGCGGTGAAAAAGT
TTAAAGTTGCCTAAGAAGAGAATGTCTAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-MluI



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Plasmid Map:


ACCN: NM_001142468

Insert Size: 723 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001142468.2](#)

RefSeq Size: 1725 bp

RefSeq ORF: 723 bp

Locus ID: 51250

UniProt ID: [Q9POP8](#)

Cytogenetics: 6q21

MW: 27.9 kDa

Gene Summary: Mitochondrial RNA-binding protein involved in mitochondrial transcription regulation. Functions as a protective factor to maintain proper mitochondrial RNA level during stress. Acts at the transcription level and its protective function depends on its RNA binding ability. [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream start codon, compared to variant 3. Variants 1 and 2 encode the same isoform (a), which has a shorter N-terminus compared to isoform b.