

Product datasheet for SC317469

MTX3 (NM_001010891) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTX3 (NM_001010891) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317469 representing NM_001010891. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGGCGGCCCCCTTGAACTCAGTTGCTGGGGAGGCGGCTGGGGACTCCCATCGTTTACAGCGAGTCC
 CTGGTGGTGATGGCTTATGCCAAATTTCTGGTGACCCCTTGAAAGTCAATGTGATAGATAACACCTGG
 AGAGGTTCAAGAGGCGATGTACCAATTTTGACAACTGAAGACGACATGGTTTCTCAGCCAGCAAAAATA
 CTAAACTTTTTAAGAAAACAGAAATATAATGCTGATTATGAACCTCAGCAAAACAAGGGGCAGATACA
 TTGGCTTATATTGCTCTCCTCGAAGAGAAGCTTCTCCCTGCAGTGCTTCACACATTCTGGGTTGAGAGT
 GACAATTACTTTACTGTGACAAAGCCATGGTTTGCTTCACAAATTCCTTTTCTTTGAGTTTGATCCTG
 CCTGGAAGAATGTCTAAGGGAGCACTGAATAGGATTCTCCTGACCAGAGGACAGCCTCCCTCTACCAC
 CTCCGAGAAGTGGAAGCACAGATATACAGAGATGCCAAGGAGTGCCTAAATCTTCTATCAAACAGATTG
 GGAACATCTCAGTTTTTCTTTGGAGATACGCCTTCTACCTTGGATGCCTATGTTTTTGGTTTTCTTGCA
 CCTCTTTACAAAGTACGGTTTCTAAAGTTCAGCTACAAGAACATCTGAAACAGCTCTCCAACCTCTGT
 CGCTTTTGTGATGACATCCTGAGCAGTTATTTAGGCTTAGTCTTGGAGATGGATGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001010891
Insert Size:	747 bp


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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_001010891.4](#)

RefSeq Size: 7863 bp

RefSeq ORF: 747 bp

Locus ID: 345778

UniProt ID: [Q5HYI7](#)

Cytogenetics: 5q14.1

MW: 27.9 kDa

Gene Summary: Could function in transport of proteins into the mitochondrion.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate exon in the 3' end compared to variant 3, that causes a frameshift. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.