

Product datasheet for **SC318974**

MTO1 (NM_001123226) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTO1 (NM_001123226) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTO1
Synonyms:	CGI-02; COXPD10
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001123226, the custom clone sequence may differ by one or more nucleotides

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ATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTCGCGGTTTCCTTCACCAAGCAGCAATTT
CCGTTGGCAGCGTTGAGCAGTGACAGCGCGGCCCGGACTCCGCACTTCGACGTGATA
GTCATTGGTGGAGGACATGCCGGGACTGAGGCAGCCACCGCCCGCTCGGTGCGGCTCT
CGGACTCTGCTCCTCACTCACCGCGTGGACAGATCGGTCAGATGTCATGTAATCCTTCC
TTTGGTGGCATCGGAAAGGGACATTTAATGAGGGAAGTAGATGCCTTGGATGGCCTGTGT
TCTCGCATCTGTGACCAGTCTGGTGTACATTATAAAGTATTAAACCGGCGTAAGGGACCA
GCTGTGTGGGCTGTGAGAGCTCAGATTGATAGGAACTCTATAAACAGAACATGCAGAAA
GAAATCTTGAATACACCACTGCTTACTGTTGAGGAGGAGCTGTAGAAGATCTTATTCTT
ACAGAACCAGAGCCTGAACACACTGGGAAATGCCGTGTCAGTGGGTTGTTTTGGTGGAT
GGAAGCACAGTATATGCAGAGAGTGTGATTCTGACTACTGGGACATTTCTGAGAGGCATG
ATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGGATCAGCCTTCTATAGGA
TTGGCTCAGACACTGGAGAAGTTAGGGTTTGTGGTGGGAAGTTGAAGACTGGGACTCCA
CCCCGAATTGCCAAAGAGTCCATTAATTTCAGTATTCTAAACAAGCATATACCGACAAT
CCATCCATACCATTACAGCTTTACCAATGAGACAGTATGGATTAAGCCAGAAGATCAGCTG
CCATGTTACTTGACTCACACCAACCCTAGAGTGGATGAGATTGTCCTTAAGAACCCTTAC
CTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTGAATCA
AAAGTTTTGCGTTTTCCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAATGGAT
TCTGACCTTATCTACCCACAGGGGTTATCTATGACGCTACCAGCTGAGTTACAAGAGAAA
ATGATCACATGCATCAGAGGCTTGGAGAAAGCTAAAGTGATTGAGCCAGGCTACGGTGTT
CAGTATGATTACTTAGATCCCCGTCAGATCACCCTTCTTGGAGACTCATTTGGTTCAA
CGACTCTTCTTTGCTGGACAGATCAATGGCACCCTGGTTATGAGGAAGCTGCAGCTCAA
ACAGAGTGTTGCTCTGTTGCCAGGCTGGAGTGCAGTGATGATCTCCAGCTTCAAGCG
ATCCTCCTGCCTCAGCCCTCCCTAGTAGCTGGGACTGCAGGCATGCACCACAACCCAG
GGTGTGATAGCCGAATCAACGCCAGTCTTCGGGTCAGTCGCAAGCCTCCCTTTGTGGT
AGCCGAACAGAAGGTTACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGACCAAGT
GAACCATACCGCATGTTTACCAGCCGAGTAGAGTTCCGTTTGTCACTGCGCCCTGATAAT
GCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGTGTGTCCCAACAACGA
TATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTTGAAATCT
ATTGAGTTTTTGAGCTCTAAATGGAATAATATCCAGAGGCTTCTATAAGTACTAGT
AGAAGTCTGCCTGTCAGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGGATTCA
TTAGCCAAGGCTGTTCCAGAGCCCTTGAAGAAGTATACTAAATGTAGAGAGCTGGCTGAA
AGACTGAAATAGAAAGCCACTTATGAATCAGTGTGTTCCATCACTACAAGAAATAAG
GGAGTTGACGAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTATCAGG
GATGTGCTTTGTCCCATGAAGTTCGAGAGAACTACATTTTAGTCGTCACAGACGATC
GGGGCTGCTAGTCGCATACCCGGAGTAACACCTGCCGCCATCATCAATCTGCTGAGATTT
GTGAAGACCACTCAACGAAGACAGTCCGGCTATGAATGAATCATCAAGACTGATCAATAC
TTATGTGATGCAGACAGACTTCAAGAGAGAGGTTA

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Restriction Sites: Please inquire

ACCN: NM_001123226

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:	<u>NM_001123226.1, NP_001116698.1</u>
RefSeq Size:	3048 bp
RefSeq ORF:	2199 bp
Locus ID:	25821
UniProt ID:	<u>Q9Y2Z2</u>
Cytogenetics:	6q13
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a mitochondrial protein thought to be involved in mitochondrial tRNA modification. The encoded protein may also play a role in the expression of the non-syndromic and aminoglycoside-induced deafness phenotypes associated with a specific mutation in the mitochondrial 12S rRNA gene. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (3) includes an additional in-frame exon compared to variant 1; it encodes isoform c which is longer than isoform a. The additional protein-coding exon contains Alu Sine repeat sequence.