

Product datasheet for **SC324145**

MTO1 (NM_012123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTO1 (NM_012123) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTO1
Synonyms:	CGI-02; COXPD10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_012123.2
 GTTGCCTAAGTTTTTTTACCCTGCTGTCAGCTTCAAAGTCAGATAGATTTTTCTC
 CCAGCATGTTCTACTTCCGAGGCTGTGGCCGTTGGGTGCGGGTTTCTTCACCAAGCAGC
 AATTTCCGTTGGCAGGTTGAGCAGTGACAGCGCGGCCCGGACTCCGCACTTCGACG
 TGATAGTCATTGGTGGAGGACATGCCGGGACTGAGGCAGCCACCGCCCGCTCGGTGCG
 GCTCTCGGACTCTGCTCCTCACTACCGCGTGGACAGATCGGTCAGATGTCATGTAATC
 CTTCTTTGGTGGCATCGAAAGGGACATTTAATGAGGGAAGTAGATGCCTTGGATGGCC
 TGTGTTCTCGCATCTGTACCAGTCTGGTGTACATTATAAAGTATTAAACCGCGTAAGG
 GACCAGCTGTGTGGGCTGTGAGAGCTCAGATTGATAGGAACTCTATAACAGAACATGC
 AGAAAGAAATCTGAATACACCACTGCTTACTGTTGAGGAGGAGCTGTAGAAGATCTTA
 TTCTTACAGAACAGAGCCTGAACACACTGGGAAATGCCGTGTCAGTGGGTTGTTTTGG
 TGGATGGAAGCACAGTATATGCAGAGAGTGATTCTGACTACTGGACATTTCTGAGAG
 GCATGATTGTAATTGGATTGGAGACGCATCCAGCAGGACGTTTAGGGATCAGCCTTCTA
 TAGGATTGGCTCAGACACTGGAGAAGTTAGGGTTTGTGGTGGGAAGGTTGAAGACTGGGA
 CTCCACCCGAATTGCCAAAGAGTCCATTAATTTCACTATTCTAAACAAGCATATACCGG
 ACAATCCATCCATACCATTCACTTTACCAATGAGACAGTATGGATTAAGCCAGAAGATC
 AGCTGCCATGTTACTTGAATCACACCAACCTAGAGTGGATGAGATTGTCCTTAAGAACC
 TTCACCTTAATAGTCATGTTAAAGAAACGACAAGAGGACCTCGATACTGTCCCTCCATTG
 AATCAAAAGTTTTGCGTTTTTCCAAACCGTCTACATCAGGTTTGGTTGGAACCTGAAGGAA
 TGGATTCTGACCTTATCTACCCACAGGGGTTATCTATGACGCTACCAGCTGAGTTACAAG
 AGAAAATGATCACATGCATCAGAGGCTTGGAGAAAGCTAAAGTGATTGAGCCAGGCTACG
 GTGTTCACTGATGATTACTTAGATCCCCGTCAGATCACCCTTCCCTGGAGACTCATTGG
 TTCAACGACTCTCTTTGCTGGACAGATCAATGGCACCCTGGTTATGAGGAAGCTGCAG
 CTCAAGGTGTGATAGCCGGAATCAACGCCAGTCTTCGGGTCAGTCGAAGCCTCCCTTTG
 TGGTTAGCCGAACAGAAGGTTACATAGGAGTCTTGATTGATGACCTCACTACTCTGGGCA
 CCAGTGAACCATACCGCATGTTTACCAGCCGAGTAGAGTTCGTTTGTCACTGCGCCCTG
 ATAATGCTGACAGCCGGCTCACACTGCGAGGGTATAAAGACGCTGGCTGTGTGCCAAC
 AACGATATGAAAGAGCTTGTGGATGAAGTCTTCTTTAGAAGAAGGCATTTCTGTGTGA
 AATCTATTGAGTTTTTGAGCTCTAAATGGAAAAAATTAATCCAGAGGCTTCTATAAGTA
 CTAGTAGAAGTCTGCCTGTCAGAGCTCTCGATGTTCTGAAGTATGAGGAAGTTGACATGG
 ATTCATTAGCCAAGGCTGTTCCAGAGCCCTGAAGAAGTATACTAAATGTAGAGAGCTGG
 CTGAAAGACTGAAATAGAAGCCACTTATGAATCAGTGTGTTCCATCAACTACAAGAAA
 TAAAGGGAGTTCAGCAAGATGAAGCTCTCCAAGTCCAAAAGACCTAGATTATTTGACTA
 TCAGGGATGTGCTTTGTCCCATGAAGTTCGAGAGAACTACATTTTAGTCGTCCACAGA
 CGATCGGGGCTGCTAGTCGCATACCCGGAGTAACACCTGCCGCCATCATCAATCTGCTGA
 GATTTGTGAAGACCACTCAACGAAGACAGTCCGCTATGAATGAATCATCAAGACTGATC
 AATACTTATGTGATGCAGACAGACTTCAAGAGAGAGATTATAGCTTTCAATTCATAAAA
 GATTTTTAAAGAGCATATAAATAATTTGATCAATACAACAGTATAGATAAAAGAATTATT
 TAGCACATGTTAAATAGCTTTATTAGGTTACTATGGGTTTGCCTTAATTTCTGAGTGG
 GACAGAAATTATAATTGTGCTTTTTTCGTGTATATGAAAAAACTAGTCGTAACAATTGT
 ACTCTTTCTTTAAGGAGCTGTAATACAAATAACTTTGTGCACTGTTTCAAAAGAGAGAG
 ACAGTGAACCTAAAAGTGAACCTGGAATAAACTCAACATGCAGATTTGCCTACTCATAG
 GGACTTTGCCTATTAAGTCTACCAAAATTAAGTCTTATCATTCAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_012123

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_012123.2 , NP_036255.2
RefSeq Size:	2537 bp
RefSeq ORF:	2079 bp
Locus ID:	25821
UniProt ID:	Q9Y2Z2
Cytogenetics:	6q13
Domains:	GIDA
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 (1) encodes the predominant isoform (a).