

## Product datasheet for **SC310754**

### MLT5 (TESMIN) (NM\_001039656) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MLT5 (TESMIN) (NM_001039656) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLT5
Synonyms:	CXCDC2; MTL5; MTLT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310754 representing NM_001039656. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGAGGGCCCTCTGCCGGGCGGGCTGCCAGCCCCGAGGATGCGATGGTGACGGAGCTCTTAAGC
CCCCGAGGGTCCGTTTCGTTCCGGAGAACATCGGCCCTGAAGGCCCGCTGAAGTACGAGGAGGACGAGTTT
CACGTCTTCAAAGAAGCGTACCTGGGCCCGGGACCCCAAGGAACCCGCTCTGCACGCTTCAACCCC
GCGCTGGGCGCCGACTGCAAGGGCCAGGTCAAGGCGAAGCTCGCGGGGGCGACAGCGACGGCGGGGAG
CTCCTCGGGGAGTACCCGGGATCCAGAGCTCAGCGCGCTGGAGGACGTCGCGCTCTGCAGGCCCCG
CAGCCCGCCGCTGCAACGTGCACTTCTGTCTCGCTGCTACCCGCGCACCGCAGCCCGGGGCTGTG
CCCTGGGCGCCTGGGTCTGGAAGGAGCTCCCACCCGGGCGTCCGCATGATCCAGTTGAAATCAAG
GAAGCAGGTGGTACTACTACAAGTAATAATCCGGAAGAAGCAACTTTGCAGAATCTTCTTGTCTCAGGAA
TCTGTGCAAGTTCCATCGTCCCAGGAAGTACAGGATGCTCTCTGCTGTTCTCTTAAGAAAGATTCC
AACCCAATGGTGATATGCCAATTGAAAGGGGACACAAATGCTATGTATAGACAATTCTAGAACAAGA
GAACTAAAAGCACTCCATTTGGTTCCCTCAGTATCAAGATCAAAAATAATTCTACAGTCAGATGTCCCT
AAACCAATGACTGCTTTAGTAGGGAGATTTTGGCAGCATCAACAAAATAAATCTCATTACACAACA
CTTGAGGGAGCCTTACCATCGGTAGTCAACGGGTCTGCTTCCCTCGGGATCAACTCTCCAGGACCA
CCAAAAATAACTTTGGCTGGGTAA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001039656
Insert Size:	921 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001039656.1</a></u>
<b>RefSeq Size:</b>	3625 bp
<b>RefSeq ORF:</b>	921 bp
<b>Locus ID:</b>	9633
<b>UniProt ID:</b>	<u><a href="#">Q9Y4I5</a></u>
<b>Cytogenetics:</b>	11q13.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	32.3 kDa
<b>Gene Summary:</b>	<p>Metallothionein proteins are highly conserved low-molecular-weight cysteine-rich proteins that are induced by and bind to heavy metal ions and have no enzymatic activity. They may play a central role in the regulation of cell growth and differentiation and are involved in spermatogenesis. This gene encodes a metallothionein-like protein which has been shown to be expressed differentially in mouse testis and ovary. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter at the C-terminus compared to isoform a.</p>