

Product datasheet for **SC117028**

MLT5 (TESMIN) (NM_004923) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLT5 (TESMIN) (NM_004923) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLT5
Synonyms:	CXCDC2; MTL5; MTLT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117028 sequence for NM_004923 edited (data generated by NextGen Sequencing)

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ATGGAGGAGGGCCCTCTGCCGGGCGGGCTGCCAGCCCCGAGGATGCGATGGTGACGGAG
CTCTTAAGCCCCGAGGGTCCGTTTCGCTTCGGAGAACATCGGCCTGAAGGCCCCCGTGAAG
TACGAGGAGGACGAGTTCCACGTCTTCAAAGAAGCGTACCTGGGCCCGCGGACCCCAAG
GAACCCGTCTGCACGCGTTCAACCCCGCGCTGGGCGCCGACTGCAAGGGCCAGGTCAAG
GCGAAGCTCGCGGGGGGCGACAGCGACGGCGGGGAGCTCCTCGGGGAGTACCCCGGGATC
CCAGAGCTCAGCGCGCTGGAGGACGTGCGGCTCCTGCAGGCCCGCAGCCCGCCGCTGC
AACGTGCACTTCTGTCTCGCTGCTACCCGCGCACCCGACGCCCGGGGTTGCCCTG
GGCGCTGGTCTGGAAGGAGCCTCCCACCCGGGCGTCCGCATGATCCCAGTTGAAATC
AAGGAAGCAGGTGGTACTACTACAAGTAATAATCCGGAAGAAGCAACTTTGCAGAATCTT
CTTGCTCAGGAATCCTGTTGCAAGTTCCCATCGTCCCAGGAACTAGAGGATGCCTCCTGC
TGTTCTCTTAAGAAAGATTCCAACCAATGGTGATATGCCAATTGAAAGGGGGCACACAA
ATGCTACGTATAGACAATTCTAGAACAAGAGAATAAAAGCACTCCATTTGGTTCCTCAG
TATCAAGATCAAATAATTATCTACAGTCAGATGTCCCTAAACCAATGACTGCTTTAGTA
GGGAGATTTTTGCCAGCATCAACAAAATTAATCTCATTACACAACAACCTTGAGGGAGCC
TTACCATCGGTAGTCAACGGGTCTGCTTTCCCCTCGGGATCAACTCTTCCAGGACCACCA
AAAATAACTTTGGCTGGGTAAGTGTGACTGCTTTGCCAGTGGGGACTTTTGCAACAACCTGC
AATTGTAATAATTGTTGCAACAACCTGCATCATGATTTGAACGGTTTAAAGCCATTAAG
GCATGTCTTGGTAGAAATCCAGAAGCTTTCCAGCCAAAATTGGGAAGGGCCAATTGGGC
AATGTCAAGCCCCAGCACAAAGGGTGAACCTGCAGGAGGTGAGGCTGCCTGAAGAAT
TACTGCGAGTGCATGAGGCCAAATTAATGTGTTCTTCTATTTGCAAATGCATTGGTTGC
AAAAATTATGAAGAAAGCCAGAACGAAAGACACTAATGAGCATGCCAAACTACATGCAG
ACTGGAGTTTGGAAAGGCAGCCATTACCTGCCACCAACGAAATTTTCAGGACTTCCAAGA
TTCAGTACGATAGGCGGCTTCTCATGCATCTCCTGGGAGGTGGTGGAGGCCACATGC
GCCTGCCTGCTTCTCAGGGAGAAGAGGCCGAGAAAGAACAACCTGCTCCAAGTGCCTGGCA
GAGCAGATGATCCTGGAGGAATTTGGAAGGTGCTTATCACAGATTCTCCACACTGAGTTT
AAATCTAAGGGATTGAAAATGGAGTAG
    
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Clone variation with respect to NM_004923.3
667 t=>c

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004923 unedited
GCGGTTCAAAATTGTAACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGCCGCT
GCGCCTGAGGCCCGGCCACGCCCATCCCGCTCGCTCCACGCTGCGGCAGCCCCGGCGG
CCCCAGGTGCGCGGCCCCGCCATCCCGCCCCGCGCCCTGCGCCATGGAGGAGGGCCCT
CTGCCGGGCGGGCTGCCAGCCCCGAGGATGCGATGGTGACGGAGCTCTTAAGCCCCGAG
GGTCCGTTTCGCTTCGGAGAACATCGGCCTGAAGGCCCCCGTGAAGTACGAGGAGGACGAG
TTCCACGTCTTCAAAGAAGCGTACCTGGGCCCGCGGACCCCAAGGAACCCGTCCTGCAC
GCGTTCAACCCCGCGCTGGGCGCCGACTGCAAGGGCCAGGTCAAGGCGAAGCTCGCGGGG
GGCGACAGCGACGGCGGGGAGCTCCTCGGGGAGTACCCCGGGATCCCAGAGCTCAGCGCG
CTGGAGGACGTGCGGCTCCTGCAGGCCCGCAGCCGCCCGCTGCAACGTGCACTTCTG
TCCTCGTGCTACCCGCGCACCCGACGCCCGGGTGTGGCCCTGGGCGCCTGGTCTCTG
GAAGGAGCCTCCCACCCGGGCGTCCGCATGATCCAGTTGAAATCAAGGAAGCAGGTGGT
ACTACTACAAGTAATAATCCGGAAGAAGCAACTTTGCAGAATCTTCTTGCTCAGGAATCC
TGTTGCAAGTTCCCATCGTCCCAGGAACTAGAGGATGCCTCCTGCTGTTCTTAAGAAA
GATCCAACCCAATGGTGATATGCCAATTGAAAGGGGGCACACANATGCTACGTATAGACA
ATTCTAGAACAAGAACTAAAAGCACTCCATTTGGTTCCTCAGTATCAAGATCAAAAC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004923 unedited TGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGACATTGGAAATTTT TATTCATCTTTGCTTTACAACAGAACCAAAAGCGTCAACTTAAGAATTCATTTTACCTGC TGGTTTCCACAAGCTAGTTATGTGAACCATGTTTTACAACAATAATAATATTACAACAA TAATTATGGAGAAGTTAATTGGATAATAGAGCTTTCCACAATCAAGTAGAAACACAGA AGAAACTGGATAATTTTAAGTCCTCTAACTCAAGACATGCTGGTGCAAGCCTGGCCTGCG AGGCCCATTTGCCTGCGTCTCCCGGGGGCCTTAGGAAAGACTGACAGTTTCGCGTGCCTCT GGGGAAATATCTACGCTACAGAAAATCTTAGGGTTCAGTAGTTCTCTAGAGATTTTAA GTGGTATCACAACAGCCCATCCGGAGAACTTATTCTAAATAATTTGAAAAACAACAAG AAACCATTAGGGTTTTTCATGCAGAGCAGCCTCCAGAGCAACATTCTGAGAGGAAGAGT CGACCAGAGTGAGCTCTCCGCAGGGCCTGCTCTGCCCTCCCTGCCCGCTCTGCCCTTC GCAGGGCCTGCTGTGCCCTCCCTGCCCTGCTCTGCCCTCCGNCGCCCTGCAGACACTCT TCCAGGACTATTGGGAACCCAAGCTCTCTCTGTGCCAGACCAACAATGCTCAGGCCA TGCACCTCTCAGAAAGGGGCATGGGTTGCCCATCTTCAGAGAGCTCTGAGTAACTCC TGGGCCAGGATGCAGGGAGCCTGGTTGTGCTGCACACCAGCCTCATGTTCCCTAACATC CTTTTAACTAGAGATTCTAGATAAGACAAATTACATGCATTCCCCTTACTACTCA TTTTAATCCCTTAGATTAACCCG
Restriction Sites:	NotI-NotI
ACCN:	NM_004923
Insert Size:	2600 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).
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:	<ol style="list-style-type: none"> 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_004923.2</u> , <u>NP_004914.2</u>
RefSeq Size:	2503 bp
RefSeq ORF:	1527 bp
Locus ID:	9633
UniProt ID:	<u>Q9Y4I5</u>
Cytogenetics:	11q13.3
Domains:	CXC

Protein Families: Druggable Genome

Gene Summary: 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]
Transcript Variant: This variant (1) encodes the longer isoform (a).