

## Product datasheet for **SC117731**

### MTA3 (NM\_020744) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MTA3 (NM_020744) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTA3
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_020744, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCAACATGTACCGGGTCGGAGATTATGTCTACTTTGAGAATTCCTCCAGCAACCCATACCTAA  
TAAGAAGGATAGAAGAACTCAACAAGACTGCAAGTGGCAACGTGGAAGCAAAAAGTAGTATGCTTTTATAG  
ACGACGTGATATTTCCAACACACTTATAATGCTCGCAGATAAGCATGCTAAAGAAATTGAGGAAGAATCT  
GAAACAACAGTTGAGGCTGACTTGACCGATAAGCAGAAACATCAGTTGAAACATAGGGAAGTCTTTTTGT  
CACGCCAGTATGAATCTCTGCCGCAACACATATCAGGGGAAAGTGCAGTGTGCCCTTCTGAATGAGAC  
AGAATCAGTATTGTCATATCTTGATAAGGAGGATACCTTCTTCTACTATTGGTCTATGACCCCTCATTG  
AAAACACTATTAGCTGACAAAGGTGAAATCAGAGTGGGACCTAGATATCAAGCAGACATTCCAGAAATGC  
TGTTAGAAGGAGAATCAGATGAGAGGGAACAATCAAAATTGGAAGTTAAAGTTTGGGATCCAAATAGCCC  
ACTTACGGATCGACAGATTGACCAGTTTTAGTTGTAGCACGTGCTGTTGGGACATTCGCCAGAGCCCTG  
GATTGCAGCAGTTCTGTGAGGCAGCCTAGTTTGCATATGAGTGTGCTGCAGCTTCCGAGACATCACCT  
TGTTTCACGCTATGGATACATTGTATAGACACAGCTATGATTTGAGCAGTGCCATTAGTGTCTTAGTACC  
ACTCGGAGGACCTGTTTTATGCAGAGATGAAATGGAGGAATGGTCAAGCTCTGAAGCTAGCTTATTTGAA  
GAGGCACTGGAAAAATATGGCAAAGACTTCAATGACATACGGCAAGATTTCTTCTTGGAAATCATTGA  
CTAGCATATTGAATATTATTACATGTGAAAACTACTGACAGATATGTGCAACAGAAACGTCTAAAAGC  
AGCAGAAGCTGAGAGTAACTGAAACAAGTATATATCCCAACCTACAGCAAAACCAATCCCAACCAATA  
TCCACTAGTAATGGGAAGCCTGGTGTGTAATGGAGCTGTGGGGACCACGTTCCAGCCTCAGAATCCTC  
TCTTAGGGAGAGCCTGTGAGAGCTGCTATGCTACACAGTCTCACCAGTGGTATTCTTGGGGCCACCTAA  
TATGCAGTGTAGATTATGTGCAATTTGTTGGCTTTATTGGAAAAATATGGAGGCTTGAAATGCCACC  
CAGTCAGAAGAAGAGAAGTTATCTCTAGCCCACTACAGAGGACCCTCGTGTAGAAAGTACAGTGTCCC  
GCCAGGCCATGCAGGGAATGCCAGTCCGAAACTGGGAGTCCAAAGTCTGCAGTGAAGACCCGCCAAGC  
TTTCTTCTTCACTACATATTTCAAAAATTTGCTCGTCAGGTCTGCAAAAATACCCCTCCGGCTGCGG  
CAGGCAGCAAGACGGCCGTTTGTGCTATTAATTATGCTGCCATTAGGGCAGAATGTAAGATGCTTTTAA  
ATTCTTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_020744 unedited</p> <pre>GCATATTTGTATACGACTCACTATTAGGGCGGCCGCGATTTCGGCACGAGGCCGGGTTCGGA GATTATGTCTACTTTGAGAATTCCTCCAGCAACCCATACCTAATAAGAAGGATCGAAGAA CTCAACAAGACTGCAAGTGGCAACGTGGAAGCAAAAGTAGTATGCTTTTATAGACGACGT GATATTTCCAACACACTTATAATGCTCGCAGATAAGCATGCTAAAGAAATGAGGAAGAA TCTGAAACAACAGTTGAGGCTGACTTGACCGATAAGCAGAAACATCAGTTGAAACATAGG GAACCTTTTTTGTACGCCAGTATGAATCTCTGCCCGCAACACATATCAGGGGAAAGTGC AGTGTTGCCCTTCTGAATGAGACAGAATCAGTATTGCCATATCTTGATAAGGAGGATACC TTCTTCTACTCATTGGTCTATGACCCCTATTGAAAACACTATTAGCTGACAAAGGTGAA ATCAGAGTGGGACCTAGATATCAAGCAGACATTCCAGAAATGCTGTTAGAAGGAGAATCA GATGAGAGGGAACAATCAAAATTGGAAGTTAAAGTTTGGGATCCAAATAGCCACTTACG GATCGACAGATTGACCAGTTTTTGTAGTGTAGCACGTGCTGTTGGGACATTGCCAGAGCC CCTGNATTGCAGCAGTTCTGTGAAGCAGCCCTATTTGCATATGAGTGTCTGCTGCAGCTTC CCGAGACATCACCTTGTTCACGCTATGGATACATTGTATAGACACAGCTATGATTTGAG CAGTGCCATTAGTGTCTTATACCACTCGCAGGACCTGTTTTATGCATAGATGAAATGGA GGGATGGTCAGCCTCTGAAGCTACCTATTTGAGAAGCCCTGGAAAATATGGCAAGACTTA ATGACTTACGGAAGATTTTTTCTGAAAAATGACAGCATACTGGATATATTACAGCG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_020744 unedited</p> <pre>TAACTTTGGAACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTCCAGGTT GGCATGATACAAATGGCAGCACAAAAACATGTTAAAAAATAAACCAATAAAAAGGCTG TACACAAGAACTTATGTTTATTGCAAAACAAACAAAAAAGGAAAGAGAGGAAA AGAGAAAATGGTCAGAAGCACACATATAAGGTTAAGAAATTTAAAGCATCTTACATTCT GCCCTAATGGCAGCATAATTAATAGCAACAAACGGCCGTCTTGCTGCCTGCCGACGCCG AGGGTATTTTTGCAGACCTGACGAGCAAATTTGTGAAATATGTAGTATGAAGGAAGAAA GCTTGGCGGGTCTTCACTGCAGACTTTGGACTCCCAGTGTTCGGACTGGCATTCCCTGC ATGGCCTGGCGGACACGTGACTTCTAACACGAGGGTCCCTGTGATTTGGGCTAGGAGAT AACTTCTCTTCTTCTGACTGGGTGGGCATTTTCAAGCCTCCATATTTTTTCCAATAAAGC CAACAAATTGCACATAATCTACACTGCATATTAGGTGGGCCCAAGAATACCACTGGTGA GACTGTGTAGCATAGCAGCTCTCACAGGCTCTCCCTAAGAGAGGATTCTGAGGCTGGAAC GTGGTCCCCACAGCTCCATTCACAGCACCAGGCTTCCCTACTAGTGGATATTTGGTTG GGATTTGGTTTGTGTAGGTTGGGAATATACTTGTTCAGTTTACTCTCAGCTTCTGCTG CTTTTAGACGTTTCTGGTGCACATATCTGTCAGTAGTTTTCCACATGTAATAATTTCAA TGATGCTAGTCAATGATTTCCAAGAAGANAATCTGCGTATGTCATTGAAGTCTTTGCAT ATTTTTCCAGTGCCTCTTCAATAAGCTAGCTCAGAGCTGACCATTCTNCATTCATCTTGA TAAACAGT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_020744
<b>Insert Size:</b>	1690 bp
<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>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>NM_020744.2, NP_065795.1</u>
<b>RefSeq Size:</b>	1872 bp
<b>RefSeq ORF:</b>	1548 bp
<b>Locus ID:</b>	57504
<b>UniProt ID:</b>	<u>Q9BTC8</u>
<b>Cytogenetics:</b>	2p21
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	Plays a role in maintenance of the normal epithelial architecture through the repression of SNAI1 transcription in a histone deacetylase-dependent manner, and thus the regulation of E-cadherin levels. Contributes to transcriptional repression by BCL6.[UniProtKB/Swiss-Prot Function]