

## Product datasheet for **SC124160**

### Mucolipin 3 (MCOLN3) (NM\_018298) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mucolipin 3 (MCOLN3) (NM_018298) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mucolipin 3
Synonyms:	TRP-ML3; TRPML3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC124160 sequence for NM\_018298 edited (data generated by NextGen Sequencing)

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ATGGCAGATCCTGAGGTAGTTGTGAGTAGCTGCAGCTCTCATGAAGAGGAAAATCGCTGC
AATTTTAAACCAGCAAACATCTCCATCTGAGGAGCTTCTATTAGAAGACCAGATGAGGCGA
AAACTCAAATTTTTTTCATGAATCCCTGTGAGAAGTTCTGGGCTCGAGGTAGAAAACCA
TGGAAACTTGGCATACAAATCTAAAAATTGCAATGGTGACTATCCAGCTGGTCTTATTT
GGGCTAAGTAACCAGATAGTGGTAGCTTCAAGGAAGAGAATACTATAGCATTCAAACAC
CTTTTCTAAAAGGATATATGGACCGAATGGATGACACATATGCAGTGTACACACAAAGT
GACGTGTATGATCAGTTAATCTTCGAGTAAACCAGTACTTGCAGCTATACAATGTCTCC
GTTGGGAATCATGCTTATGAGAACAAAGGTACCAAGCAATCTGCTATGGCAATCTGTCAG
CACTTCTACAAGCGAGGAAACATCTACCCTGGAATGATACCTTTGACATCGATCCAGAA
ATTGAACTGAGTGTCTTTGTGGAGCCAGATGAACCTTTTACATTGGGACACCAGCA
GAAAATAAACTGAACTTAACACTGGACTCCACAGACTCCTAACAGTGGAGCTTCAGTTT
AAACTGAAAGCCATTAATCTGCAGACAGTTCGTATCAAGAACTCCCTGACTGTTATGAC
TTTACTCTGACTATAACATTTGACAACAAGGCCCATAGTGAAGAATTAATAAGTTTA
GATAATGACATTTCCATCAGAGAATGTAAGACTGGCATGTATCTGGATCAATTCAGAAG
AACACTCATTACATGATGATCTTTGATGCCTTTGTCACTTCTGACTTGCTTGGTTTCATTA
ATCCTCTGCATTAGATCTGTGATTAGAGGACTTCACTTCCAGCAGGAGTTTGTCAATTTT
TTCCTCTCCATTATAAGAAGGAAGTTTCTGTTTCTGATCAAAATGGAATTTGCAATGGA
TGGTACATTATGATTATTATTAGTGACATATTGACAATCATTGGATCAATTTCAAAAATG
GAAATCCAAGCTAAGAGTCTAAGTAGTTATGATGTCTGTAGCATACTTCTGGGACTTCT
ACCATGCTTGTGGCTTGGAGTCATCCGATACCTCGGTTTCTTGGCAAAGTACAACCTC
CTCATTTTGACCCTTTCAGGCAGCGCTGCCAATGTCATCAGGTTCTGCTGCTGTGCAGCT
ATGATTTACTTAGGTTACTGCTTCTGTGGATGGATCGTGTCTGGGCTTACCATGACAAG
TTTCGTTCTCTGAACATGGTCTCTGAGTGCCTTTTCTCTCTGATAAATGGAGATGATATG
TTTGCCACGTTTGCAAAATGCAGCAAAAAGTTACTTAGTCTGGCTGTTTAGTAGAATT
TACCTCTACTCATTATCAGCCTCTTTATATATGATTTTAAGTCTTTTCATTGCACTG
ATCACTGATACATACGAAACAATTAAGCAATACCAACAAGATGGCTTCCCAGAGACTGAA
CTTCGTACATTTATCAGAATGCAAAGATCTACCCAACCTTGAAAATACAGATTAGAA
GATGACCCTCCAGTATCTTTATTCTGCTGTTGAAAAAGTAG
    
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Clone variation with respect to NM\_018298.9  
1149 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_018298 unedited

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TTGTAATACGACTCACTATAGGGCGCCGCAATTCGGCAGGAGGCTGCTGGAGTCGCT
CGCTGACTCGCCCTGCGCCCTCGCCGCGGACACCGGAGCTGCGGCGCTCCCCGCTGTCC
CCCAGAGATGGCAGATCCTGAGGTAGTTGTGAGTAGCTGCAGCTCTCATGAAGAGAAAA
TCGCTGCAATTTTAAACCAGCAAACATCTCCATCTGAGGAGCTTCTATTAGAAGACCAGAT
GAGGCGAAAACCTCAAATTTTTTTCATGAATCCCTGTGAGAAGTTCTGGGCTCGAGGTAG
AAAACCATGGAACTTGGCATACAAATCTAAAAATTGCAATGGTGACTATCCAGCTGGT
CTTATTTGGGCTAAGTAACCAGATGGTGGTAGCTTCAAGGAAGAGAATACTATAGCATT
CAAACACCTTTTCTAAAAGGATATATGGACCGAATGGATGACACATATGCAGTGTACAC
ACAAAGTGACGTGTATGATCAGTTAATCTTCGAGTAAACCAGTACTTGCAGCTATACAA
TGTCTCCGTTGGGAATCATGCTTATGAGAACAAGGTACCAAGCAATCTGCTATGGCAAT
CTGTGACACTTCTACAAGCGAGGAAACATCTACCCTGGAAATGATACCTTTGACATCGA
TCCAGAAATTGAACTGAGTGTTTCTTTGTGGAGCCAGATGAACCTTTTACATTGGGAC
ACCAGCAGAAAATAAACTGAACTTAACAT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_018298 unedited CAACTTCCAGGCCAGGAGAGGCACTGGGGAGGGTCACAGGGATGCCACCCGGGATCTGT TCAGGAAACAGCTATGACCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTT TGCATTTGGTATATGCTTTAATTTTCATGCATGTATAAGATACTCTTTTACTTTCTACTT TAACACTGAAGGAGGATAGAAAATTGTAATGAGTATTTAAAAGCCTGATCCTCTTAAG AACTAAAAGCAGAATCAAGTAACAGTTGGCTTTCATAACCAAATACAGTCACATGCTGGA TAACGATGTTTTGGTCAATGATGTACCGCATATAACAATGGTGGTCCAGAAGATTATAAA ACCATATTTTACTGTCCCTTTTCTATGTTTAGATACTTACCATTGTGTTACAATTGCCT ACTGTATTCAATACAGTAACATGTTGTACAGATTTGTACCCAGGACCAACAGGCTATAC CAAATAGCCTAGGTGTGTAGTAGGCTATACCATCTAGGTTTGTGGAAGTACATGCTATGA TGTTTAATGACAAAATCGCCTAATGACACATTTCTCAGAACATATCTCCATCCTTAAGTG ACATATGGCCGTATCACATTGTTAGCTGGTGGCTCTTATTCTGGTGGCTCTTATTCTG GTGCACCTTATTCTTCTTTCAAGAGAAGATTTAAAATGCAATGATTACTGTATAAAT GGTAACTACCCCACTCTCAAGGATG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018298
<b>Insert Size:</b>	2800 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><a href="#">NM_018298.9</a></u> , <u><a href="#">NP_060768.8</a></u>
<b>RefSeq Size:</b>	2813 bp
<b>RefSeq ORF:</b>	1662 bp
<b>Locus ID:</b>	55283
<b>UniProt ID:</b>	<u><a href="#">Q8TDD5</a></u>
<b>Cytogenetics:</b>	1p22.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane

**Gene Summary:**

This gene encodes one of members of the mucolipin cation channel proteins. Mutation studies of the highly similar protein in mice have shown that the protein is found in cochlea hair cells, and mutant mice show early-onset hearing loss and balance problems. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer protein (isoform 1).