

## Product datasheet for **SC306572**

### **MCOLN2 (NM\_153259) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MCOLN2 (NM_153259) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCOLN2
Synonyms:	TRP-ML2; TRPML2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;OriGene sequence for NM_153259 edited</p> <pre> ATGGCCCGGCAGCCTTATCGTTTTCCCAAGGATCCGGAGAGAGGATCAGGTGTT TTCAGGTAAACCGTCAGAAACGCAATGGCACATCGTGATTCTGAGATGAAAGAAGATGT CTAAGGGAAGACCTGAAGTTTTACTTCATGAGCCCTTGTGAAAAATACCGAGCCAGACGC CAGATTCCTGGAAACTGGGTTTGCAGATTTTGAAGATAGTCATGGTCACCACACAGCTT GTTCTGTTTTGGTTAAGTAACCAGCTGGTGGTTGCTTTCAAAGAAGATAACACTGTTGCT TTAAGCACTTGTTTTTGAAAGGATATTCTGGTACAGATGAAGATGACTACAGCTGCAGT GTATATACTCAAGAGGATGCCTATGAGAGCATCTTTTTGCTATTAATCAGTATCATCAG CTAAAGGACATTACCCTGGGGACCCTTGGTTATGGAGAAAATGAAGACAATAGAATTGGC TTAAAAGTCTGTAAGCAGCATTACAAGAAAGGGACCATGTTTCTTCTAATGAGACACTG AATATTGACAACGACGTTGAGCTCGATTGTGTTCAATTAGACCTTCAGGACCTCTCCAAG AAGCTCCGGACTGGAAGAACTCATCTTCCAGACTGGAATTTTATCGGCTCTTACAG GTTGAAATCTCCTTTCATCTAAAGGCATTGACCTACAGACAATTCATCCCGTGAGTTA CCAGACTGTTATGCTTTTCAAATACGATTATCTTTGACAATAAAGCTCACAGTGGCAAA ATCAAAATCTATTTTACAGTGTGCAAAATGAAGAATGTAAGACTTGAACATATTT GGATCTACTCAGAAAAATGCTCAGTATGCCTGGTGGTTGATGCATTTGTCATTGTGATT TGCTTGGCATCTCTTATTCTGTGTACAAGATCCATTGTTCTTGCTCTAAGGTTACGGAAG AGATTTCTAAATTTCTTCTGGAGAAGTACAAGCGGCCTGTGTGTGACACCGACCAAGTGG GAGTTCATCAACGGCTGGTATGCCTGGTGATTATCAGCGACCTAATGACAATCATTGGC TCCATATTAATAATGAAATCAAAGCAAAGAATCTCACAACTATGATCTCTGCAGCATT TTTCTTGGAACTCTACGCTCTTGGTTTGGGTTGGAGTCATCAGATACCTGGGTTATTTT CAGGCATATAATGTGCTGATTTTAAACAATGCAGGCCTCACTGCCAAAAGTTCTTCGGTTT TGTGCTTGTGCTGGTATGATTTATCTGGTTACACATTCTGTGGCTGGATTGCTTAGGA CCATACCATGACAAGTTTGAATACTGAACACAGTTGCTGAGTGTCTGTTTTCTCTGGTC AACGGTGTGACATGTTTGAACCTTTGCCAAAATCCAGCAGAAGAGCATCTTGGTGTGG CTGTTCAGTCGTCTGATTTATATTCTTCATCAGCCTTTTTATATATGATTCTCAGT CTTTTTATTGCACTTATTACAGATTCTTATGACACCATTAAGAAATCCAACAGAATGGG TTTCTGAAACGGATTTGCAGGAATTCCTGAAGGAATGCAGTAGCAAAGAAGAGTATCAG AAAGAGTCTCAGCCTTCTGCTGCATCTGCTGTCGGAGGAGAAAAGAAGTGATGAT CACTTGATACCTATTAGCTAA </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_153259
<b>Insert Size:</b>	1700 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>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>	<a href="#">NM_153259.2</a> , <a href="#">NP_694991.2</a>
<b>RefSeq Size:</b>	3060 bp
<b>RefSeq ORF:</b>	1701 bp
<b>Locus ID:</b>	255231
<b>UniProt ID:</b>	<a href="#">Q8IZK6</a>
<b>Cytogenetics:</b>	1p22.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Transient receptor potential, Transmembrane
<b>Gene Summary:</b>	<p>Mucolipins constitute a family of cation channel proteins with homology to the transient receptor potential superfamily. In mammals, the mucolipin family includes 3 members, MCOLN1 (MIM 605248), MCOLN2, and MCOLN3 (MIM 607400), that exhibit a common 6-membrane-spanning topology. Homologs of mammalian mucolipins exist in <i>Drosophila</i> and <i>C. elegans</i>. Mutations in the human MCOLN1 gene cause mucolipodosis IV (MIM 262650) (Karacsonyi et al., 2007 [PubMed 17662026]).[supplied by OMIM, Sep 2009]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>