

## Product datasheet for **SC100289**

### COTL1 (NM\_021149) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COTL1 (NM_021149) Human Untagged Clone
Tag:	Tag Free
Symbol:	COTL1
Synonyms:	CLP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC100289 sequence for NM_021149 edited (data generated by NextGen Sequencing)

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ATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGAC
GGCTCGGCCGTCATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGCGGAG
CAGGGAGCGGAGTACCAGCACTTCATCCAGCAGTGACACAGATGACGTCCGGTTGTTTGCC
TTCGTGCGCTTACCACCGGGGATGCCATGAGCAAGAGGTCCAAGTTTGCCTCATCAGG
TGGATCGGTGAGAACGTAGCGGGCTGCAGCGGCCAAAACCGGGACGGACAAGACCCTG
GTGAAGGAGGTCGTACAGAATTTTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTG
GAGGAAGATTTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGAGCCAATTACGACGCCAG
ACGGAGTAA
```

Clone variation with respect to NM\_021149.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_021149 unedited</p> <pre>GGATTTTGTAAATACGACTTCACTATAGGGCGGCCGGAATCGGCACGAGGGCGCGTACCC GCCGCGTCCCATCCCCGCCCGCCAGGGGCGCGCTCGGCCGCCCGGACAGTGTCCC GCTGCGGCTCCGCGGCGATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACA ACCTGGTGCAGACGACGGCTCGGCCGTCATCTGGGTGACTTTTAAATATGACGGCTCCA CCATCGTCCCCGCGAGCAGGGAGCGGAGTACCAGCACTTCATCCAGCAGTGCACAGATG ACGTCGCGTTGTTTGCCTTCGTGCGCTTACCACCGGGGATGCCATGAGCAAGAGGTCCA AGTTTGCCTCATCACGTGGATCGGTGAGAACGTGAGCGGGCTGCAGCGGCCAAAACCG GGACGGACAAGACCTGGTGAAGGAGGTCGTACAGAATTCGCTAAGGAGTTTGTGATCA GTGATCGGAAGGAGCTGGAGGAAGATTTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGAG CCAATTACGACGCCAGACGGAGTAACCCAGCCCCGCCACACCACCCCTTGCCAAAGT CATCTGCCTGCTCCCGGGGAGAGGACCGCCGGCCTCAGCTACTAGCCACCAGCCAC CAGGGAGAAAAGAAGCCATGAGAGGCAGCGCCGCCACCTGTGTCCACAGCCCCACCT TCCCGCTCCCTTAGAACCTGCCGTGCTCTATCTCATGACGCTCATGAAAACCTCTTCT TTGATCCCTCTTTCTTTCTCCCTCTTTTTTGTCTAAAGAAAAGTCATTTGATGCAA GGTCTGCCTGCCATCAGATCCGAGGTGCTNCTGACGTGACCCCTTTTCTGGCATTCTTT CCAGCGACGAGTCTGCCTATGAGACTGCATGACTCACGTTGCTTTCAGACCCGGGCTATT TTGCATCTAGTTTCTGACCTGCTNCTGGTACAC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021149 unedited</p> <pre>TTATGGACGCGGCCGATTTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC TGAAAAAAAAAAAAACATTTATTTCTGTAAGTGTCTGAGTGCAGAGATGTTCTTTACAA TCCAATACAGTACAGATTTCTTCCCAAACGAAATGAGCAAGGAAAAACAGAAAAAGA GCTATATCAAATGTGCTCATGAAGAACCAAGCCAATCTCACCTTTCTTAAAAACAAAAC AAAACGATCCTTTGAATGTGTGGTGCAGACGCAGGACTGAAGCCACAGGCTTTTGGGGT GCTGTGAGCCCAGGGCTTTGCTCAGCTCACAGTACGCGGGCGGGCAGAGCAACCCTTCG GCCAAGCCATCCTCGCAGCTTACACAGAAGCTTCTGAACTAAGGGATCCGTTCCAG CTCTCCTAAATCCCAGTCCCCACCCTGGGCCTCTCCCTAACGATCTGTGCGTTTTG GGAGCCCTGAAGTGAACCCTGAAATACTCCCTCCGTCAGTCTGGGCTCAGACCTTTCG CCTTCTGTGTGTCACAAGGAAATTCGGTCAAGAGGGTGGGAACAGGTGGTTTCAGACCG TGCAGCAAAGCCACTGCCAGGTAAGTTTTAAGGCAAATTTATCTTTCTTATTTCAGTCT GAGCCGGACCTAACCTTCTCACACCAGCAATCCTGCCTATGCTGGACATGCATCTTAG GCAACTCCGATGGAGGTGGGATGAGGGAGCCCGNGCAGATAACAGGAGTCTGGGCCT TANTAGGGAATGGACGTGTGCTTATGAAGGTCGAGGCACCGGGCACAGCTCCTGGCC CAGCTGCCCTCAGTGTACACAGGAAGCAGGGTCCAGANAAGTATGAGTGGCAAATAGCCC GGGCTCTGGNAAGCAACGTGAGTCATGCAGATCTACTAGGCAGACTCGTCCG</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021149
<b>Insert Size:</b>	1750 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).

**Reconstitution Method:**

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:** [NM\\_021149.2](#), [NP\\_066972.1](#)

**RefSeq Size:** 1850 bp

**RefSeq ORF:** 429 bp

**Locus ID:** 23406

**UniProt ID:** [Q14019](#)

**Cytogenetics:** 16q24.1

**Domains:** ADF

**Gene Summary:** This gene encodes one of the numerous actin-binding proteins which regulate the actin cytoskeleton. This protein binds F-actin, and also interacts with 5-lipoxygenase, which is the first committed enzyme in leukotriene biosynthesis. Although this gene has been reported to map to chromosome 17 in the Smith-Magenis syndrome region, the best alignments for this gene are to chromosome 16. The Smith-Magenis syndrome region is the site of two related pseudogenes. [provided by RefSeq, Jul 2008]