

Product datasheet for **RG204055**

COTL1 (NM_021149) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: COTL1 (NM_021149) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: COTL1
Synonyms: CLP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204055 representing NM_021149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGGACGACGGCTCGGCCG
 TCATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGGGAGCAGGGAGCGGAGTACCAGCA
 CTTTCATCCAGCAGTGCACAGATGACGTCCGGTTGTTGCCTTCGTGCGCTTACCACCGGGGATGCCATG
 AGCAAGAGGTCCAAGTTTGCCCTCATCAGTGGATCGGTGAGAACGTGAGCGGGCTGCAGCGGCCAAAA
 CCGGGACGGACAAGACCCTGGTGAAGGAGTTCGTACAGAAATTCGCTAAGGAGTTTGTGATCAGTGATCG
 GAAGGAGCTGGAGGAAGATTCATCAAGAGCGAGCTGAAGAAGGCGGGGGAGCCAATTACGACGCCAG
 ACGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204055 representing NM_021149
 Red=Cloning site Green=Tags(s)

MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGGSTIVPGEQGAIEYQHFIQQCTDDVRLFAFVRFITGDAM
 SKRSKFAITWIGENVSLQRAKTGTDKTLVKEVVQNFKEFVISRKELEEDFIKSELKKAGGANYDAQ
 TE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_021149

ORF Size: 426 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_021149.5](#)

RefSeq Size: 1850 bp

RefSeq ORF: 429 bp

Locus ID: 23406

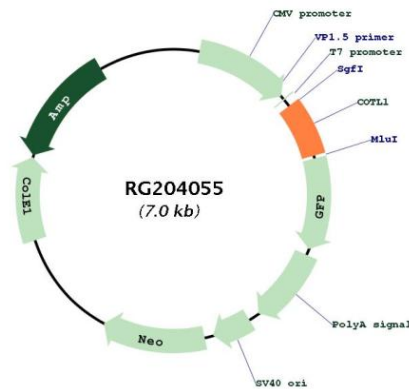
UniProt ID: [Q14019](#)

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]

Product images:



Circular map for RG204055