

Product datasheet for MR219968

Cotl1 (NM_028071) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cotl1 (NM_028071) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cotl1
Synonyms: 1810074P22Rik; 2010004C08Rik; Clp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219968 representing NM_028071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCACGAAGATCGACAAGGAGGCGTGTGCGCGGCGTACAACCTAGTGCGGGACGACGGCTCGGCGG
 TCATCTGGGTGACTTTCAGATACGACGGCGCCACCATTGTCCCGGCGATCAGGGAGCAGATTACCAGCA
 CTTTCATCCAGCAGTGCACAGATGATGTCGGCTGTTCCGCTTTGTGCGCTTACCACCGGCGACGCCATG
 AGCAAAAGATCCAAGTTTGCCCTCATCACATGGATCGGGGAGGACGTGAGTGGACTGCAGCGTGCCAAGA
 CGGGGACCGACAAGACGCTGGTGAAGGAGTGGTCCAGAATTTGCAAAGGAATTTGTGATCAGCGACCG
 GAAGGAGCTAGAGGAAGACTTCATCAGGAGCGAGCTGAAGAAGGCTGGGGGGCCAACTACGACGCTCAG
 TCAGAG

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219968 representing NM_028071
 Red=Cloning site Green=Tags(s)

MATKIDKEACRAAYNLVRDDGSAVIWVTFRYDGATIVPGDQGADYQHFIQQCTDDVRLFAFVRFITGDAM
 SKRSKFALITWIGEDVSLQRAKTGTDKTLVKEVVQNFKEFVISDRKELEEDFIRSELKKAGGANYDAQ
 SE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_028071

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_028071.3](#), [NP_082347.1](#)

RefSeq Size: 1642 bp

RefSeq ORF: 429 bp

Locus ID: 72042

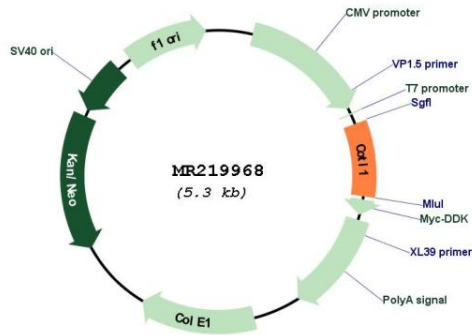
UniProt ID: [Q9CQI6](#)

Cytogenetics: 8 E1

MW: 16.4 kDa

Gene Summary: Binds to F-actin in a calcium-independent manner. Has no direct effect on actin depolymerization. Acts as a chaperone for ALOX5 (5LO), influencing both its stability and activity in leukotrienes synthesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219968