

## Product datasheet for **MR205348**

### Cysltr1 (NM\_021476) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cysltr1 (NM\_021476) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cysltr1  
**Synonyms:** BB147369; Cysl1; CysLT1R  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR205348 representing NM\_021476  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTACCTCCAAGGCCACCAAGCAGACATTCCTGGAGAACATGAATGGAAGTAAAACTGACGACATCTC  
 TCATTAATAACACGTGTCATGACACAATTGATGAATCCGAAATCAAGTATACTCCACTATGTATTCTGT  
 GATCTCTGTTGTGGGTTCTTTGGCAATAGCTTTGTGCTCTATGCCTCATAAAAAACATACCATGAGAAA  
 TCAGCCTTCCAAGTATACATGATTAATCTAGCCATAGCAGATCTACTCTGTGTATGTACATTGCCTCTCC  
 GTGTGGTCTATTATGTTCAAAAGGCAAGTGGCTTTTGGTGACTTTTTGTGCCGCTCACCACCTATGC  
 CTGTACGTTAACCTCTATTGTAGCATCTCTTTATGACAGCCATGAGCTTTTTCCGGTGTGTTGCAATT  
 GTCTTTCCAGTCCAGAACATTAATTTGGTTACACAGAAAAAGCCAGGTTTCGTTTGCATTGGAATTTGGA  
 TTTTTGTGATTTTGACAAGTTCTCCCTTTTAAATGTACAAATCTTACCAAGATGAGAAAAACAATACTAA  
 ATGCTTTGAGCCTCCACAGAACAATCAAGCTAAAAAATACGTTTTGATCTTGCAATTATGTGTCATTATTC  
 TTTGGTTTCATCATCCCTTTGTACCATAATTGTCTGTTACACAATGATCATTCTGACCTTACTAAAAA  
 ATACAATGAAGAAAAACATGCCAAGTCGTAGGAAGGCTATAGGGATGATCATAGTTGTGACAGCTGCCTT  
 TTTAGTGAGCTTCATGCCATATCATATCAACGAACATCCACCTTACCTTTTACACAGTAAAAGTAGA  
 CCCTGTGATTCTGTCCTTAGGATGCAGAAGTCAGTGGTCATAACCTTATCTAGCTGCATCAAATTTGTT  
 GCTTTGATCCTCTGCTATATTTCTTTTCAGGTGGAACCTTTAGGAGAAGGCTATCTACATTTAGAAAGCA  
 TTCTTTGTCCAGTATGACTTATGTACCCAAGAAGAAAGCTTCTTGCAGAAAAAGGAGAAGAAATATGT  
 AACGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205348 representing NM\_021476  
Red=Cloning site Green=Tags(s)

MYLQGTKQTFLENMNGTENLTTSLINNTCHDTIDEFRNQVYSTMYSVISVVGFFGNSFVLVYLIKTYHEK  
 SAFQVYMINLAIADLLCVCTPLRVVYVYHKGKWLFGDFLCRLTTYALVNLVCSIFFMTAMSFRCVAI  
 VFPVQNINLVTQKKARFVCIIGIWFVILTSSPFLMYKSYQDEKNTKCFEPPQNNQAKKYVLILHYVSLF  
 FGFIIIPFVTIIVCYTMIILTLKNTMKKNMPSRKAIGMIIVVTA AFLVSMFYHIQRTIHLHLLHSETR  
 PCDSVLRMQKSVVITLSLAASNCCFDPLLYFFSGGNFRRLSTFRKHLS SMTYVPKKKASLPEKGEEIC  
 NE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_h03.zip](https://cdn.origene.com/chromatograms/mm9019_h03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021476

**ORF Size:** 1056 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\\_021476.5](#), [NP\\_067451.2](#)

**RefSeq Size:** 2979 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 58861

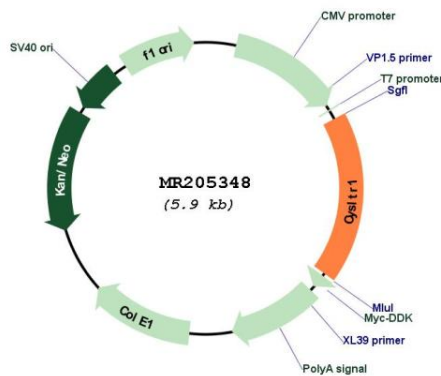
**UniProt ID:** [Q99JA4](#)

**Cytogenetics:** X D

**MW:** 41.2 kDa

**Gene Summary:** Receptor for cysteinyl leukotrienes mediating constriction of the microvascular smooth muscle during an inflammatory response. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTD4 >> LTE4 = LTC4 >> LTB4.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205348