

Product datasheet for MR222300

Cysltr2 (NM_133720) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cysltr2 (NM_133720) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cysltr2
Synonyms:	2300001H05Rik; Cltr2; Cysl2; CYSLT2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222300 representing NM_133720 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGTAACTGGGACCCAGCAGTTATAGTAACAGGAACTGTACAATAGAAAACCTTTAAGAAGGAAT
TTTACCCCATCATACCTGATAATATTTTCTGGGGAGCCTTGGGAAATGGCTTTCCATATATGTCTT
TCTACAGACTTGAAGAAGTCCACATCTGTAATGTTTTCATGCTCAACCTGGCCACTCCGATTTTCTA
TTCATCAGCACCTTGCCCTTCAGGGCTGACTATTATTTTCAGAGGTTCCAATTGGATATTTGGGACTTG
CCTGCAGAGTCATGTCTTATTCCTTATATGTCAACATGTATACTAGCATTATTTCTAACTGTGCTGAG
TGTGGTGCCTTCTGGCCACAGTCCACCCCTTCGGATGTTCCATGTCACCAAGTGTGAGGAGTGCCTGG
ATCCTCTGTGGGATCATATGGGTTTTTCATCATGGCTTCTCAGCCCTGCTTCTGGTGAACGGCCAAGAGG
AGAAAGATAACATTATATCATGCTTGGAGCTGAGTCTCAAAGTTTAAAGTCTCCTGATCATGAACCA
CATTGCAGTAGCGGTAGGCTTCTTGCTCCCATTTCTCACGCTCACCGTCTGCTACCTGCTGATCATCCGG
ATCTTGTTAAAGGCTGAGATTCCAGAATCAGGTCCACGTGCTGCTCATAGGAAGGCGTGCACCAATTG
TCATTGCCATGATCACCTTCTCCTCTGTTTTCTGCCATACCATGCACTGCGGACCCTCCACTTGGTCAC
ATGGGATAAAGATTCATGTGGGATGTGCTACATAAGGCCACAGTCATCACACTGACCATGGCTGCAGCC
AATAGCTGCTTCAATCCCTTTCTCTATTATTTGCTGGGAGAATTTCAAAGCTCGATTAAGGGCTATAT
TCAGCAAAGTTCATCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222300 representing NM_133720
Red=Cloning site Green=Tags(s)

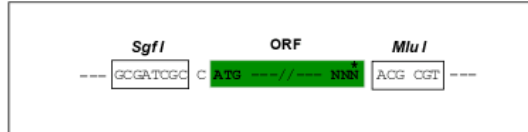
```
MEVTGTPSSYSNRNCTIENFKKEFYPIIYLIIFFWGALGNGFSIYVFLQTCKKSTSVNVFMLNLATSDFL
FISTLPRADYYFRGSNWIFGDLACRVMSYSLYVNMYSIYFLTVLSVVRFLATVHPFRMFHVTSVRSAAW
ILCGIIWVIFIMASSALLLVNGQEEKDNIIISCLELSPQKFSLIMNHIAVAVGFLLPFLTLTVCYLLIIR
ILLKAEIPESGPRAAHRKALTTIVIAMITFLLCFLPYHALRTLHLVTWDKDCGDVHLKATVITLMAAAA
NSCFNPLYFFAGENFKARLRAIFSKVHL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133720

ORF Size: 927 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_133720.3](#), [NP_598481.2](#)

RefSeq Size: 1802 bp

RefSeq ORF: 930 bp

Locus ID: 70086

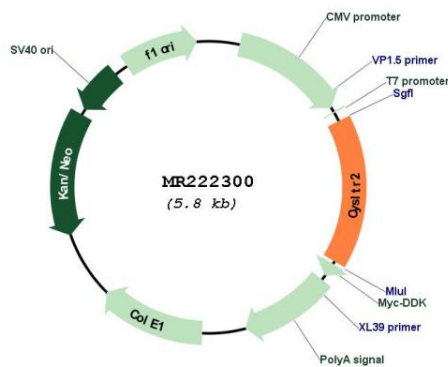
UniProt ID: [Q920A1](#)

Cytogenetics: 14 D3

MW: 35.2 kDa

Gene Summary: Receptor for cysteinyl leukotrienes. The response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system. The rank order of affinities for the leukotrienes is LTC4 = LTD4 >> LTE4.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222300