

Product datasheet for SC115965

CysLT1 (CYSLTR1) (NM_006639) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CysLT1 (CYSLTR1) (NM_006639) Human Untagged Clone
Tag:	Tag Free
Symbol:	CysLT1
Synonyms:	CYSLT1; CYSLT1R; CYSLTR; HMTMF81
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115965 sequence for NM_006639 edited (data generated by NextGen Sequencing)

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ATGGATGAAACAGGAAATCTGACAGTATCTTCTGCCACATGCCATGACACTATTGATGAC
TTCCGCAATCAAGTGTATTCCACCTTGTACTCTATGATCTCTGTTGTAGGCTTCTTTGGC
AATGGCTTTGTGCTCTATGTCCTCATAAAAACCTATCACAAGAAGTCAGCCTTCCAAGTA
TACATGATTAATTTAGCAGTAGCAGATCTACTTTGTGTGTGCACACTGCCTCTCCGTGTG
GTCTATTATGTTCAAAAGGCATTTGGCTCTTTGGTGACTTCTTGTGCCGCCTCAGCACC
TATGCTTTGTATGTCAACCTCTATTGTAGCATCTTCTTTATGACAGCCATGAGCTTTTTTC
CGGTGCATTGCAATTGTTTTCCAGTCCAGAACATTAATTTGGTTACACAGAAAAAGCC
AGGTTTGTGTGTAGGTATTTGGATTTTGTGATTTTGACCAGTTCTCCATTTCTAATG
GCCAAACCACAAAAGATGAGAAAAATAATACCAAGTGCTTTGAGCCCCACAAGACAAT
CAAATAAAAATCATGTTTTGGTCTTGCAATTATGTGTCATTGTTTGTGGCTTTATCATC
CCTTTTGTATTATAATTGTCTGTTACACAATGATCATTGACCTTACTAAAAAATCA
ATGAAAAAATCTGTCAAGTCATAAAAAGGCTATAGGAATGATCATGGTCGTGACCGCT
GCCTTTTGTAGTCAGTTTCATGCCATATCATATTCAACGTACCATTCATTTTTTA
CACAAATGAACTAAACCTGTGATTCTGTCCTTAGAATGCAGAAGTCCGTGGTCATAACC
TTGTCTCTGGCTGCATCCAATTGTTGCTTTGACCCTCCTCTATATTTCTTTCTGGGGT
AACTTTAGGAAAAGGCTGTCTACATTTAGAAAAGCATTCTTTGTCCAGCGTGACTTATGTA
CCCAGAAAAGAGGCCTTTTGCCAGAAAAGGAGAAGAAATATGTAAGTATAG

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Clone variation with respect to NM_006639.2
927 c=>t



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006639 unedited
 NGGTTGAGGATTTGTNATACGATTTACTATAGGGTCGGCCGCGAAATTCGCACGAGGTG
 CTTTTACGACCCTACAGGGTATCAAGATACTGTGCAGCTCGCAACAAGGATTAATTGCA
 AGGACTGGTAGATCGAATTTACTGAAGACTTGGAGCTTGCTTCTGAGAACAACGCAAAA
 GGACAGTAAACTGTGGACCTTGAAGTTAGCAGCGTGGGCTTCTCTAATATTACACCGTA
 AAAGGCATTGATCACCATAAGAAGGAACATTTGTGAAGTACTCCAGTGCCAGAAAAGAGG
 CACAAAGCAGACATATGTAGAGAAACATGGATGAAACAGGAAATCTGACAGTATCTTCTA
 TCACATGCCATGACACTATTGATGACTTCCGCAATCAAGTGTATTCCACCTTGTACTCTA
 TGATCTCTGTTGTAGGCTTCTTTGGCAATGGCTTGTGCTCTATGTCCTCATAAAAAACCT
 ATCACAAGATAGTCAGCCTTCCAAGTATACATGATTAATTTAGCAGTAGCAGATCTACTT
 TGTGTGTGCACACTGCCTCTCCGTGTGGTCTATTATGTTCAAAAAGGCATTTGGCTCTTT
 GGTGACTTCTTGTGCCGCTCAGCACCTATGCTTTGTATGTCAACCTCTATTGTAGCATC
 TTCTTTATGACAGCCATGAGCTCTTCCGGTGCATTGCAATTGTTTTCCAGTCCAGAAC
 ATTAATTTGGTTACACAGAAAAAAGCCAGTTTGTGTGTGTAGGTATTTTGCATTTTTG
 TGATTTTGACCAGTTCTTCAATTTCTAATGGCCACACCACAAAAGATGATGAAAAATAA
 CCAAGTGCTTTGAGCTCCACAAAGACATCAAACCTAAAAATCATGTTCTGGTCTCGCCA
 TATGTGGCATTGTTTGGTTGCCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006639 unedited
 AAATAATAANNNNNNTTATTANNNNNGGCCACTTTTGATTACATTTTTTTTTTGNAG
 TAAGTTACTTTTTAAAAACAACCTAAAGGCACACTACACTTCAGCAAAAGCTTGCCACG
 CATATTATATTTAGCCGTAGATGAGTTGTTGTGGCTGTTTTAAGATCAAAGCGTCCACT
 GTAATATAAAAGTCACTGTAACATATCCATGATATTCCTGTCAACATACCAATAAAAAG
 TAATAAAGCAATAATAAACTTATCGTGAACCTTCCACCCATAATGCATATCATACAGCAA
 AATCTCTTACATATAGTTGTATACATATACATAAATGTATGCACTTCTTAAAAGAATTTG
 TAACGTGAACATTCACAATTTTCTCATAAATCCTTTGTAGTTTATTTTGATCCCAGCAA
 TTGGCATATAGAAAAGTAGATTCCTTTTCTTTCTTCTTTCAGATAAGTTTTTAATTA
 CTTCTATTTATATAGGAGTGCCAGTTGTCTGGCTTCTTAAGGAAGAATTGTATGTCAT
 GGATGGAGAGAAATCTCTACAGGAACCTCACTGAGCAGCTAAAACCTCCACTATTCATTT
 TGGGAGCCTGAGGCAAAGGCAGAAAGAAAACCTGGAGACAACTGGCTTTTGACCAGATTC
 TCCTGTTGCCATATTGAACATTGTATGGTGTCTTTAAGACCCTTTAGCTGAATACTAGTC
 TGTCTAGCACTTTTACATTCTCTTTTGGAAAGAATGGCCCTTATTTGCCTAGCGAATCA
 GTACTACAAAAGAAGGTGACAGTACGTTTTATGTAACCTCTGAGTATCTTCAGTTCTCAT
 CTGATGGCATGCATGCAAAGGAATATGTAGAATGATTCAGAACTATTTGGCCATTTATAT
 CTAGTTTTATTTTAATACTTTAACCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_006639

Insert Size:

2550 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_006639.2](#), [NP_006630.1](#)

RefSeq Size: 1537 bp

RefSeq ORF: 1014 bp

Locus ID: 10800

UniProt ID: [Q9Y271](#)

Cytogenetics: Xq21.1

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary:

This gene encodes a member of the G-protein coupled receptor 1 family. The encoded protein is a receptor for cysteinyl leukotrienes, and is involved in mediating bronchoconstriction via activation of a phosphatidylinositol-calcium second messenger system. Activation of the encoded receptor results in contraction and proliferation of bronchial smooth muscle cells, eosinophil migration, and damage to the mucus layer in the lung. Upregulation of this gene is associated with asthma and dysregulation may also be implicated in cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.