

Product datasheet for **RG207763**

CysLT1 (CYSLTR1) (NM_006639) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CysLT1 (CYSLTR1) (NM_006639) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CYSLTR1
Synonyms: CYSLT1; CYSLT1R; CYSLTR; HMTMF81
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207763 representing NM_006639
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGAAACAGGAAATCTGACAGTATCTTCTGCCACATGCCATGACACTATTGATGACTTCGCAATC
 AAGTGTATTCCACCTTGTACTCTATGATCTCTGTTGTAGGCTTCTTTGGCAATGGCTTTGTGCTCTATGT
 CCTCATAAAAACCTATCACAGAAGTCAGCCTTCCAAGTATACATGATTAATTTAGCAGTAGCAGATCTA
 CTTTGTGTGTGCACACTGCCTCTCCGTGTGGTCTATTATGTTACAAAAGGCATTTGGCTCTTTGGTGACT
 TCTTGTGCCGCTCAGCACCTATGCTTTGTATGTCAACCTCTATTGTAGCATCTTCTTTATGACAGCCAT
 GAGCTTTTTCCGGTGCATTGCAATTGTTTTCCAGTCCAGAACATTAATTTGGTTACACAGAAAAAGCC
 AGGTTTGTGTGTAGGTATTTGGATTTTGTGATTTGACCAGTTCTCCATTTCTAATGGCCAAACCAC
 AAAAAGATGAGAAAAATAATACCAAGTGCTTTGAGCCCCACAAGACAATCAAATAAAAAATCATGTTTT
 GGTCTTGCAATTATGTGTCATTGTTTGTGGCTTTATCATCCCTTTGTTATTATAAATGTCTGTTACACA
 ATGATCATTTTGACCTTACTAAAAAATCAATGAAAAAATCTGTCAAGTCATAAAAAGGCTATAGGAA
 TGATCATGGTCGTGACCCTGCCTTTTAGTCAGTTTCATGCCATATCATATTCAACGTACCATTACCT
 TCATTTTTTACACAATGAACTAAACCTGTGATTCTGTCTTACAATGCAGAAGTCCGTGGTCATAACC
 TTGTCTCTGGCTGCATCCAATTGTTGCTTTGACCCTCTCCTATATTTCTTTCTGGGGTAACTTTAGGA
 AAAGGCTGTACATTTAGAAAAGCATTCTTTGTCCAGCGTGACTTATGTACCCAGAAAAGAAGCCCTTT
 GCCAGAAAAAGGAGAAGAAATATGTAAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG207763 representing NM_006639
 Red=Cloning site Green=Tags(s)

MDETGNLTVSSATCHDTIDDFRNQVYSTLYSMISVVGGFFGNGFVLYVLIKTYHKKSAFQVYMINLAVADL
 LCVCTLPLRVVYVYHVKGIWLFQDFLCRLSTYALYVNLYSIFFMTAMSFRCIAIVFPVQINLVTQKKA
 RFVCGIWIWIFVILTSSPFLMAKPQKDEKNNTKCFEPPQDNQTKNHVLLVHYVSLFVGFIIIPFVIIIVCYT
 MIILTLLKSMKKNLSSHKKAIGMIMVVTA AFLV SFMPYHIQRTIHLHFLHNETHKPCDSVLTMQKSVVIT
 LSLAASNCCFDPLLYFFSGGNFRKRLSTFRKHLSL SVTYVPRKKASLPEKGEEICKV

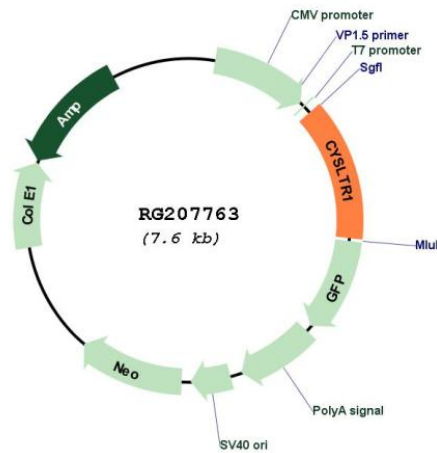
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006639

ORF Size: 1011 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_006639.2, NP_006630.1</p>
RefSeq Size:	<p>1537 bp</p>
RefSeq ORF:	<p>1014 bp</p>
Locus ID:	<p>10800</p>
UniProt ID:	<p>Q9Y271</p>
Cytogenetics:	<p>Xq21.1</p>
Domains:	<p>7tm_1</p>
Protein Families:	<p>Druggable Genome, GPCR, Transmembrane</p>
Protein Pathways:	<p>Calcium signaling pathway, Neuroactive ligand-receptor interaction</p>

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]