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Product datasheet for RG237546

CysLT1 (CYSLTR1) (NM_001282186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CysLT1 (CYSLTR1) (NM_001282186) 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:

>RG237546 representing NM_001282186.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGAAACAGGAAATCTGACAGTATCTTCTGCCACATGCCATGACACTATTGATGACTTCCGCAAT
CAAGTGTATTCCACCTTGTACTCTATGATCTCTGTTGTAGGCTTCTTTGGCAATGGCTTTGTGCTCTAT
GTCCTCATAAAAACCTATCACAAGAAGTCAGCCTTCCAAGTATACATGATTAATTTAGCAGTAGCAGAT
CTACTTTGTGTGTGCACACTGCCTCTCCGTGTGGTCTATTATGTTCACAAAGGCATTTGGCTCTTTGGT
GACTTCTTGTGCCGCCTCAGCACCTATGCTTTGTATGTCAACCTCTATTGTAGCATCTTCTTTATGACA
GCCATGAGCTTTTTCCGGTGCATTGCAATTGTTTTTCCAGTCCAGAACATTAATTTGGTTACACAGAAA
AAAGCCAGGTTTGTGTGTGTAGGTATTTGGATTTTTGTGATTTTGACCAGTTCTCCATTTCTAATGGCC
AAACCACAAAAAGATGAGAAAAATAATACCAAGTGCTTTGAGCCCCCACAAGACAATCAAACTAAAAAT
CATGTTTTGGTCTTGCATTATGTGTCATTGTTTGTTGGCTTTATCATCCCTTTTGTTATTATAATTGTC
TGTTACACAATGATCATTTTGACCTTACTAAAAAAATCAATGAAAAAAAATCTGTCAAGTCATAAAAAG
GCTATAGGAATGATCATGGTCGTGACCGCTGCCTTTTTAGTCAGTTTCATGCCATATCATATTCAACGT
ACCATTCACCTTCATTTTTTACACAATGAAACTAAACCCTGTGATTCTGTCCTTAGAATGCAGAAGTCC
GTGGTCATAACCTTGTCTCTGGCTGCATCCAATTGTTGCTTTGACCCTCTCCTATATTTCTTTTCTGGG
GGTAACTTTAGGAAAAGGCTGTCTACATTCAGAAAGCATTCTTTGTCCAGCGTGACTTATGTACCCAGA
AAGAAGGCCTCTTTGCCAGAAAAAGGAGAAGAAATATGTAAAGTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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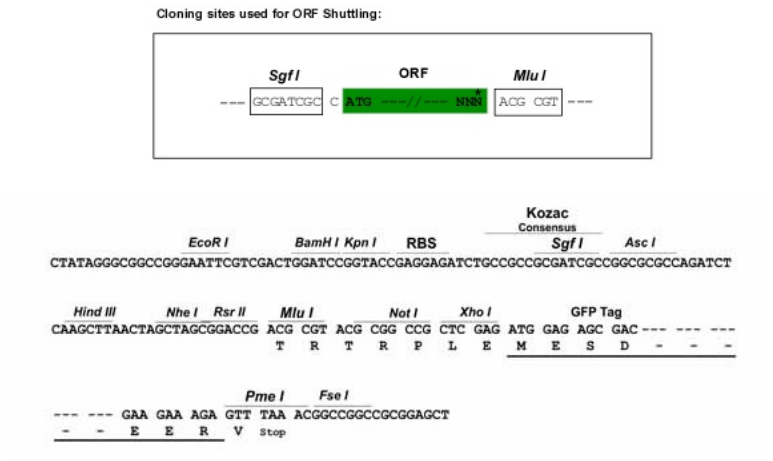
Protein Sequence:

>Peptide sequence encoded by RG237546
Blue=ORF Red=Cloning site Green=Tag(s)

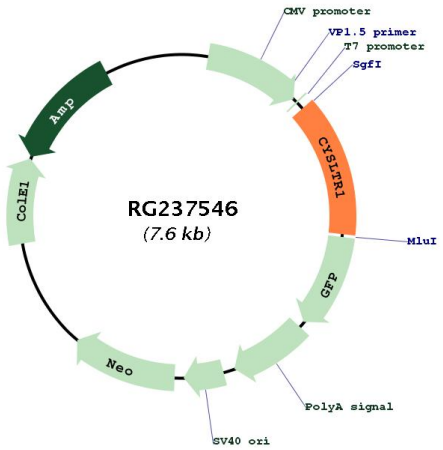
MDETGNLTVSSATCHDTIDDFRNQVYSTLYSMISVVGFFGNGFVLYVLIKTYHKKSAFQVYMINLAVAD
LLCVCTLPLRVVYYVHKGIWLFGDFLCRLSTYALYVNLYCSIFFMTAMSFFRCIAIVFPVQNINLVTQK
KARFVCVGIWIFVILTSSPFLMAKPQKDEKNNTKCFEPPQDNQTKNHVLVLHYVSLFVGFIIPFVIIIV
CYTMIILTLLKKSMKKNLSSHKKAIGMIMVVTAAFLVSFMPYHIQRTIHLHFLHNETKPCDSVLRMQKS
VVITLSLAASNCCFDPLLYFFSGGNFRKRLSTFRKHSLSSVTYVPRKKASLPEKGEEICKV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282186

ORF Size:	1011 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).
RefSeq:	NM_001282186.1, NP_001269115.1
RefSeq Size:	2693 bp
RefSeq ORF:	1014 bp
Locus ID:	10800
UniProt ID:	Q9Y271
Cytogenetics:	Xq21.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
MW:	38.5 kDa
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]