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Product datasheet for RG222711

CysLT2 (CYSLTR2) (NM_020377) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CysLT2 (CYSLTR2) (NM_020377) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CYSLTR2
Synonyms:	CYSLT2; CYSLT2R; GPCR21; HG57; hGPCR21; HPN321; KPG_011; PSEC0146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG222711 representing NM_020377
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAGAAAATTTATGTCCTTGCAACCATCCATCTCCGTATCAGAAATGGAACCAAATGGCACCTTCA
GCAATAACAACAGCAGGAACTGCACAATTGAAAACTTCAAGAGAGAATTTTTCCCAATTGTATATCTGAT
AATATTTTTCTGGGGAGTCTTGGGAAATGGGTTGTCCATATATGTTTTCCTGCAGCCTTATAAGAAGTCC
ACATCTGTGAACGTTTTCATGCTAAATCTGGCCATTTCAGATCTCCTGTTCATAAGCACGCTTCCCTTCA
GGGCTGACTATTATCTTAGAGGCTCCAATTGGATATTTGGAGACCTGGCCTGCAGGATTATGTCTTATTC
CTTGTATGTCAACATGTACAGCAGTATTTATTTCCTGACCGTGCTGAGTGTTGTGCGTTTCCTGGCAATG
GTTCACCCCTTTCGGCTTCTGCATGTCACCAGCATCAGGAGTGCCTGGATCCTCTGTGGGATCATATGGA
TCCTTATCATGGCTTCCTCAATAATGCTCCTGGACAGTGGCTCTGAGCAGAACGGCAGTGTCACATCATG
CTTAGAGCTGAATCTCTATAAAATTGCTAAGCTGCAGACCATGAACTATATTGCCTTGGTGGTGGGCTGC
CTGCTGCCATTTTTCACACTCAGCATCTGTTATCTGCTGATCATTCGGGTTCTGTTAAAAGTGGAGGTCC
CAGAATCGGGGCTGCGGGTTTCTCACAGGAAGGCACTGACCACCATCATCATCACCTTGATCATCTTCTT
CTTGTGTTTCCTGCCCTATCACACACTGAGGACCGTCCACTTGACGACATGGAAAGTGGGTTTATGCAAA
GACAGACTGCATAAAGCTTTGGTTATCACACTGGCCTTGGCAGCAGCCAATGCCTGCTTCAATCCTCTGC
TCTATTACTTTGCTGGGGAGAATTTTAAGGACAGACTAAAGTCTGCACTCAGAAAAGGCCATCCACAGAA
GGCAAAGACAAAGTGTGTTTTCCCTGTTAGTGTGTGGTTGAGAAAGGAAACAAGAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

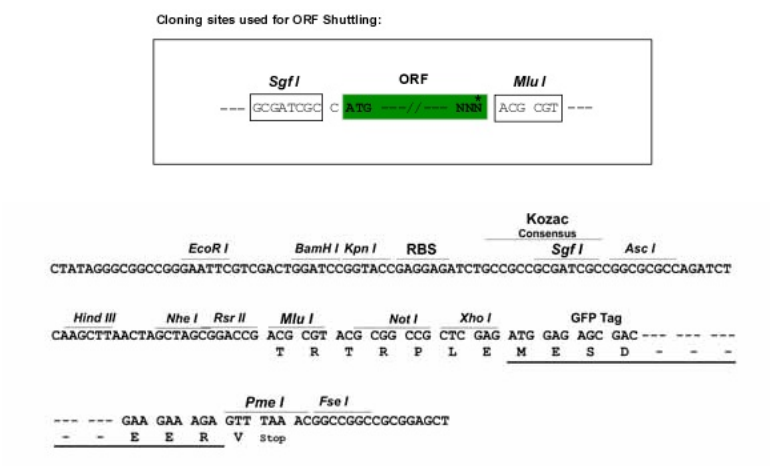
>RG222711 representing NM_020377
Red=Cloning site Green=Tags(s)

MERKFMSLQPSISVSEMEPNGTFSNNNSRNCTIENFKREFFPIVYLIIFFWGVLGNGLSIYVFLQPYKKS
TSVNVFMLNLAISDLLFISTLPFRADYYLRGSNWIFGDLACRIMSYSLYVNMYSSIYFLTVLSVVRFLAM
VHPFRLLHVTSIRSAWILCGIIWILIMASSIMLLDSGSEQNGSVTSCLELNLYKIAKLQTMNYIALVVGC
LLPFFTLSICYLLIIRVLLKVEVPESGLRVSHRKALTTIIITLIIFFLCFLPYHTLRTVHLTTWKVGLCK
DRLHKALVITLALAAANACFNPLLYYFAGENFKDRLKSALRKGHPQKAKTKCVFPVSVWLRKETRV

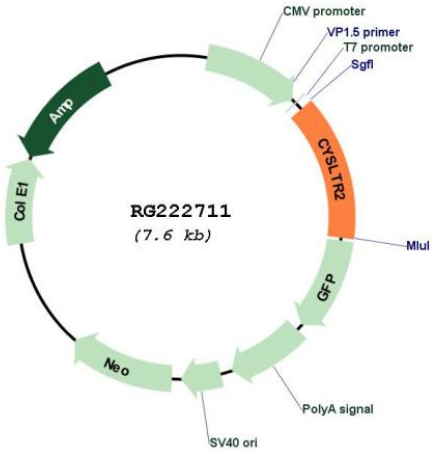
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020377

ORF Size: 1038 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_020377.5
RefSeq Size:	2548 bp
RefSeq ORF:	1041 bp
Locus ID:	57105
UniProt ID:	Q9NS75
Cytogenetics:	13q14.2
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	The cysteinyl leukotrienes LTC4, LTD4, and LTE4 are important mediators of human bronchial asthma. Pharmacologic studies have determined that cysteinyl leukotrienes activate at least 2 receptors, the protein encoded by this gene and CYSLTR1. This encoded receptor is a member of the superfamily of G protein-coupled receptors. It seems to play a major role in endocrine and cardiovascular systems. [provided by RefSeq, Jul 2008]