

Specifications:

Gene:	<i>hCYSLTR1</i>
Accession:	NP_006630
Insert size:	1027bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

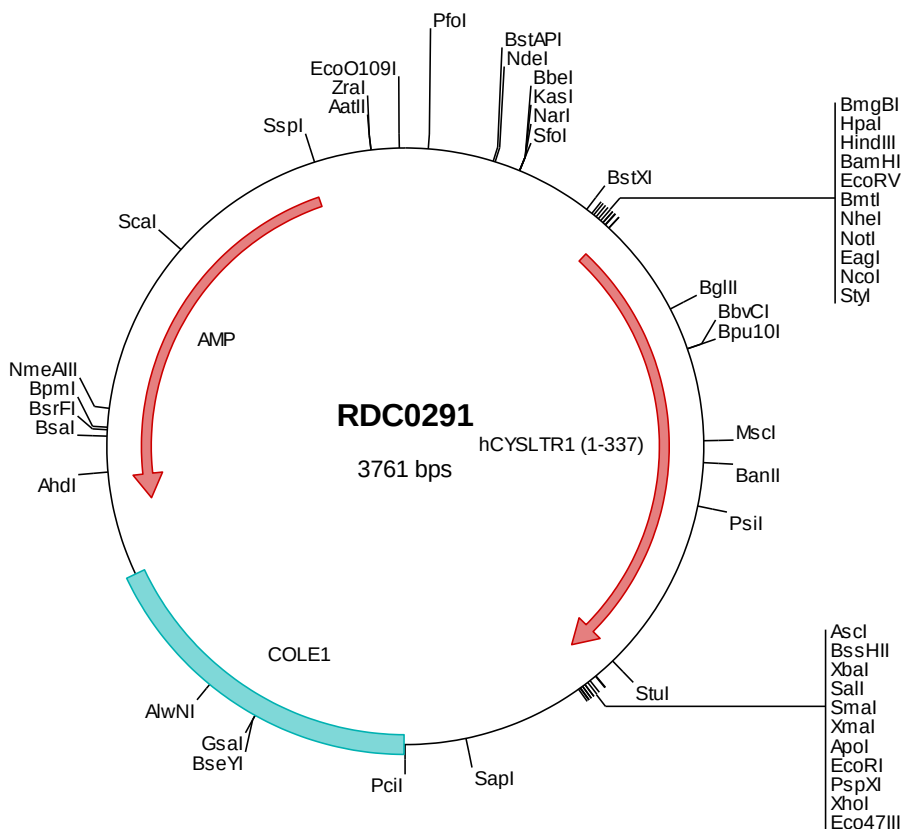
*h*CYSLTR1 cDNA Plasmid

CYSLTR1 cysteinyl leukotriene
receptor 1 [*Homo sapiens*]

Also known as: HG55; CYSLT1; CYSLTR; CYSLT1R; HMTMF81

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, CYSLTR1 and CYSLTR2. Both receptors are members of the superfamily of G protein-coupled receptors. Activation of CYSLTR1 by LTD₄ results in contraction and proliferation of smooth muscle, oedema, eosinophil migration and damage to the mucus layer in the lung.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0291 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagtgggta acgccagggt tttccagtc acgacgttgc aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgccacc atggatgaaa caggaaatct gacagtatct tctgccacat gccatgacac
501  tattgatgac ttccgcaatc aagtgtattc caccttgtac totatgatct ctgtttagg cttcttttggc aatggccttg tgcctatgt cctcaataaaa
601  aacctacaca agaagtcacg cttccaagta tacatgatta atttagcagt agcagatcta ctttgtgtgt gcacactgcc tctcgtgtg gtctattatg
701  ttcaaaaagg catttggctc tttggtgact tcttgtgcgc cctcagcacc tatgtcttgt atgtcaacct ctattgtagc atctcttcta tgacagccat
801  gagcttttcc cgggtgcattg caattgtttt tccagtcacg aacattaaat tggttacaca gaaaaaagcc aggtttgtgt gtgtaggtag ttggattttt
901  gtgattttga ccagttctcc atttctaattg gccaaaccac aaaaagatga gaaaaataat accaagtgc ttaggccccc acaagacaat caaactaaaa
1001 atcatgtttt ggtcttgcac tatgtgtcat tgtttgttgg ctttatcatc ccttttggta ttataattgt ctgttacaca atgacattt tgaccttact
1101 aaaaaaacca atgaaaaaaa atctgtcaag tcataaaaag gctataggaa tgatcatggt cgtgaccgct gcctttttag tcagtttcat gccatatcat
1201 attcaacgta ccattcaact tcaattttta cacaatgaaa ctaaacccgtg tgattctgtc cttagaatgc agaagtcogt ggtcataacc ttgtctotgg
1301 ctgcaccaa ttgttgtttt gacctctccc tatatttctt ttctgggggt aactttagga aaaggctgtc tacattcaga aagcattctt tgtccagcgt
1401 gacttatgta ccagaaaaga aggcctcttt gccagaaaaa ggagaagaaa tatgtaaagt ataaaggcgc gccagtatac tctagagtgc acacccgggg
1501 aattcctcga gcgctcgtct ctgacttggc gtaatcatg tcatagctgt ttctgtgtg aaattgttat ccgctcaca ttccacaca catacgagcc
1601 ggaagcataa agtgtaaagc ctggggtgcc taatgagtga gtaactcac attaatgtcg ttgcgtcac tgcccgttt ccagtcggga aacctgtctg
1701 gccagctgca ttaatgaatc ggccaacgcg cggggagagg cgttttgcgt attggcgct ctcccgctc ctcgctcact gactcgctgc gtcgggtcgt
1801 tcggctgcgg cgagcgggat cagctcactc aaagcgctga atacggttat ccacagaaac aggggataac gcaggaaaaga acatgtgagc aaaaggccag
1901 caaaaggcca ggaaccgtaa aaaggccgcg ttgctggcgt ttttccatag gctccgcccc cctgacgagc atcacaaaaa tcgacgctca agtcagaggt
2001 ggcgaaaacc gacaggacta taaagatacc aggcgtttcc ccttgaagc tcctcgtgc gctctcctgt tccgacctcg ccgcttaccg gatacctgtc
2101 cgcctttctc ccttcgggaa cgctggcgct ttctcaatgc tcacgctgta ggtatctcag ttccgtgtag gtcgttcgct ccaagctggg ctgtgtgcac
2201 gaaccccccg ttcagcccca ccgctgcgcc ttatccggtg actatcgtct tgagtccaac ccggtaaagc acgacttatc gccactggca gcagccactg
2301 gtaacaggat tagcagagcg aggtatgtag gcggtgtcac agagtctctg aagtgttggc ctaactacgg ctacactaga aggacagtat ttggtatctg
2401 cgctctgctg aagccagtta ccttcggaaa aagagtgtgt agctcttgat ccggcaaaac aaccaccgct ggtagcggtg gtttttttgt ttgcaagcag
2501 cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc aaattaaaaa tgaagtttta aatcaatcta agtatatat gactaaaact ggtctgacag
2601 tcatgagatt atcaaaaagg atcttcacct agatcctttt atattaaaaa gttcattcat agttgcctga ctccccgtg ttagataaac tacgatacgg
2701 ttaccaatgc ttaatcagtg aggaacctat ctoacgcgac tgtctatttc gttcattcat agttgcctga ctccccgtg ttagataaac tacgatacgg
2801 gagggcttac catctggccc cagtgtcgca atgataccg gagaccacg gctctattaat tgttgcggg ttgcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc
2901 agcgagaaag tggctctgca actttatccg cctccatcca gctctattaat tgttgcggg ttgcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc
3001 cgttgttggc attgctacag gcacgtgtgt gtcacgctcg tcgtttggta tggcttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc
3101 cccatgttgt gcaaaaaaag ggttagctcc ttccgtctcc cgatcgttgt cagaagtaag ttggcccgag tgttatcact catggttatg gcagcactgc
3201 ataattctct tactgtcatg ccacccgtaa gatgttttct tgtgactggt gagtactcaa ccaagtcatt ctgagaatag tgtatgcggc gaccgagttg
3301 ctottgcccg gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgtc catcattgga aaacgtttct cggggcgaaa actotcaagg
3401 atcttacgcg tgttgagatg aggttcgatg taaccccaac gtgcacccaa ctgatcttca gcattcttta ctttaccag cgtttctggg tgagcaaaaa
3501 caggaaaggca aaatgccgca aaaaaaggaa taaggcgac acggaaaatg tgaatactca tactcttct ttttcaatat tattgaagca tttatcaggg
3601 ttattgtctc atgagcggat acatatattg atgtatttag aaaaataaac aaatagggg tccgcgcaca tttccccgaa aagtgccacc tgacgtctaa
3701 gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacgag gccctttcgt c
```

> RDC0291 Translated Insert Sequence

```
1   mdetgnltvs satchdtidd frnqvystly smisvvgffg ngfvlvlik tyhkksafqv yminlavadl levctlplrv vyyvhkgiwl fgdfclrlst
101  yalyvnlycs ifftamsaff rciaivfpvq ninlvtqkka rfvcvgiwiw viltsspflm akpqkdeknn tkcfepqdn qtknhvlvlh yvslfvgfii
201  pfviiivcyt miiltllkks mkknlsshkk aigmimvvt aflvsfmpyh iqrtihlhl hnetkpcdsv lrmqksvvit lslaasnccf dpllyffsfg
301  nfrkrilstfr khsllsvtyv prkkaslpek geeickv
```