

## Product datasheet for **SC123235**

### LTC4S (NM\_145867) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LTC4S (NM\_145867) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** LTC4S  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Fully Sequenced ORF:** >OriGene sequence for NM\_145867 edited

```
CTTCCTCTCCTGGCCGCTCCTCTGAGCAGCAGACGGGGCTAAGCGTTCCTCCAGCTCGCCT
TCACACACAGCCCGTGCCACCACACCGGACGGTACCATGAAGGACGAGGTAGCTCTACTGG
CTGCTGTCAACCTCCTGGGAGTCTGCTGCAAGCCTACTTCTCCCTGCAGGTGATCTCGG
CGCGCAGGGCCTTCCGCGTGTGCGCCGCCGCTCACCACCGGCCACCCGAGTTCGAGCGCG
TCTACCGAGCCCAGGTGAACTGCAGCGAGTACTTCCCGCTGTTCTCGCCACGCTCTGGG
TCGCCGGCATCTTCTTTCATGAAGGGCGCGGCCCTGTGCGGCCTGGTCTACCTGTTTCG
CGCGCCTCCGCTACTTCCAGGGCTACGCGCGCTCCGCGCAGCTCAGGCTGGCACCCTGT
ACGCGAGCGCGCGCCCTCTGGCTGCTGGTGGCGCTGGCTGCGCTCGGCCTGCTCGCCC
ACTTCTCCCGCCGCGCTGCGCGCCGCGCTCCTCGGACAGCTCCGGACGCTGCTGCCGT
GGGCCTGAGACCAAGGCCCCCGGCCGACGGAGCCGGAAAGAAGAGCCGGAGCCTCCAG
CTGCCCCGGGAGGGGCGCTCGCTTCCGCATCCTAGTCTCTATCATTAAAGTTCTAGTGA
CCGAAAAAAAAAAAAAAAAA
```



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145867 unedited TCGGGTTGNGATTTGTATACGACTCCTATGGGCGGCCGCATAACTTCGTTAGCATACATT ATACGAATTATGGCTCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGCTTCCTC TCCTGGGCCGCTCTGAGCAGCAGACGGGGCTAAGCGTTCGCCAGCTCGCCTTCACACA CAGGCCGTGCCACCACACCGACGGTACCATGAAGGACGAGGTAGCTCTACTGGCTGCTGT CACCTCCTGGGAGTCTGTGCAAGCCTACTTCTCCCTGCAGGTGATCTCGGCGCGCAG GGCCTTCGCGGTGTCGCGCCGCTCACCACCGGCCACCCGAGTTCGAGCGCGTCTACCG AGCCAGGTGAAGTGCAGCGAGTACTTCCGCTGTTCTCGCCACGCTCTGGGTCGCCGG CATCTTCTTTCATGAAGGGCGGCGCCCTGTGCGGCCTGGTCTACCTGTTGCGCGCCT CCGCTACTTCCAGGGCTACGCGCGCTCCGCGCAGCTCAGGCTGGCACCGCTGTACGCGAG CGCGCGCGCCCTCTGGCTGCTGGTGGCGCTGGCTGCGCTCGGCCTGCTCGCCACTTCT CCCGGCCGCGCTGCGCGCCGCGCTCCTCGGACAGCTCCGGACGCTGCTGCCGTGGGCTG AGACCAAGGCCCGGGCCGACGGAGCCGGGAAAAGAGAGCCGGAGCCTCCAGCTGCCCC GGGAGGGGGCGCTCGCTCCGCATCCTAGTCTCTATCATTAAAGNTCTAGTGACCGAAAA AAAAAAAAAACTCTNCTGCGCTGGATCCCGCCATNAGGGCCTGATCCTTCGAGGGGGGGC CCCGTACCGATATCAAGCTTGTGCGACTCTAGATTGCGGGCCGCCGTCATAGCTTGTCCC TGACAGATCCCCGGGGGCATCCCTGTGACCCCTCCCG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_145867
<b>Insert Size:</b>	678 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_145867.1</a> , <a href="#">NP_665874.1</a>
<b>RefSeq Size:</b>	680 bp
<b>RefSeq ORF:</b>	453 bp
<b>Locus ID:</b>	4056
<b>UniProt ID:</b>	<a href="#">Q16873</a>
<b>Cytogenetics:</b>	5q35.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Arachidonic acid metabolism, Metabolic pathways

**Gene Summary:**

The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family includes a number of human proteins, several of which are involved the production of leukotrienes. This gene encodes an enzyme that catalyzes the first step in the biosynthesis of cysteinyl leukotrienes, potent biological compounds derived from arachidonic acid.

Leukotrienes have been implicated as mediators of anaphylaxis and inflammatory conditions such as human bronchial asthma. This protein localizes to the nuclear envelope and adjacent endoplasmic reticulum. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents a shorter transcript but encodes the longest isoform (1).