

Product datasheet for **MR22275**

Ltc4s (NM_008521) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ltc4s (NM_008521) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ltc4s
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR22275 representing NM_008521
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGACGAAGTGGCTCTTCTGGCTACCGTCACCCCTCGTGGGAGTTCTGTTGCAAGCCTACTTCTCCC
TACAGGTGATCTCTGCACGAAGGGCTTCCACGTGTCGCCGCCGCTCACCTCTGGCCCTCCCGAGTTCGA
GCGCGTCTCCGAGCCCAGGTAAGTGCAGCGAGTACTTCCGCTGTTCTCGCCACACTCTGGGTGCGC
GGCATCTTCTCCACGAAGGAGCCGAGCCCTGTGGGACTGTTCTACCTGTTGCGCGCCTCCGCTATT
TCCAGGGATACGCGCGCTCAGCGCAACTCAGGCTGACTCCCCTACGCGAGCGCGCGCACTCTGGCT
GCTGGTGGCGATGGCTGCACTGGGCTTGCTAGTCCACTTCCCTCCCGGCAGCTACGGACTGCGCTCTTC
AGATGGCTCCAGATGCTCCTGCCGATGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR22275 representing NM_008521
Red=Cloning site Green=Tags(s)

MKDEVALLATVTLVGVLLQAYFSLQVISARRAFHVSPPLTSGPPEFERVFRAQVNCSEYFPLFLATLWVA
GIFFHEGAAALCGLFYLFARLRYFQGYARSAQLRLTPLYASARALWLLVAMAALGLLVHFLPGTLRLTALF
RWLQMLLPMA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_g08.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:



ACCN: NM_008521

ORF Size: 450 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_008521.2](#)

RefSeq Size: 588 bp

RefSeq ORF: 453 bp

Locus ID: 17001

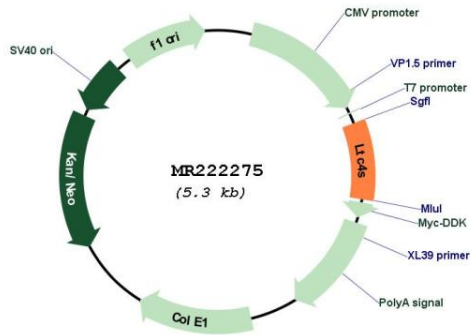
UniProt ID: [Q60860](#)

Cytogenetics: 11 B1.3

MW: 17.3 kDa

Gene Summary: The protein encoded by this gene is an enzyme that catalyzes the synthesis of leukotriene C4 by combining leukotriene A4 with reduced glutathione. The encoded protein is found in the outer nuclear membrane and in the peripheral endoplasmic reticulum. Leukotrienes have been implicated as mediators of anaphylaxis and inflammatory conditions such as bronchial asthma in humans. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR222275