

Product datasheet for **RG203402**

LASS4 (CERS4) (NM_024552) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LASS4 (CERS4) (NM_024552) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LASS4
Synonyms:	LASS4; Trh1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203402 representing NM_024552 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTGTCCAGTTTCAACGAGTGGTTTTGGCAGGACAGGTTCTGGTTACCAACCAATGTCACGTGGACAG
 AGCTAGAAGACCGGGATGGCCGTGTCTACCCCCACCCCAGGACTTGTGGCAGCCCTGCCCTGGCGCT
 GGTCTCTCTGGCCATGCGCCTTGCCCTTGAGAGATTATTGGCCTGCCCTGAGCCGGTGGCTGGGTGTG
 AGGGATCAGACCAGGAGGCAAGTGAAGCCCAACGCCACGCTGGAGAAACACTTCCTCACGAAGGGCACA
 GGCCCAAGGAGCCCCAGCTGTCTCTCTGGCCGCCAGTGTGGCCTCACGCTGCAGCAGACCCAGCGATG
 GTTCCGGAGACGCCGAACAGGATCGACCCAGCTGACCAAGAAGTTCTGTGAGGCCAGCTGGAGGTTT
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 TAATGTGCTGGGACAGGTACCCAAACAGACTCTGAAGCCATCCCTGTACTGGTGGTACCTCTTGGAGCT
 GGGTTTCTACCTCTCACTGCTAATCAGGCTGCCCTTTGATGTCAAGCGCAAGGATTTCAAGGAGCAGGTG
 ATACCACTTTCGTGGCGGTATCCTGATGACCTTCTCTACAGTGCCAACTGCTGCGCATTGGCTCTC
 TGGTGTGCTGTTACATGATTCTCTGACTACCTGCTGGAGGCCTGTAAGATGGTCAACTACATGCAGTA
 TCAGCAAGTGTGCGACGCTCTCTCTCATCTTCTCTCTTGTCTTCTTCTACACCCGACTGGTCTCTTT
 CCCACCCAGATCCTCTACACCACATACTACGAGTCCATCAGCAACAGGGGCCCTTCTTCGGCTACTACT
 TCTTCAACGGGCTTCTGATGTTGCTGCAGCTGCTGCACGTGTTCTGGTCTTGCCTATTCTGCGCATGCT
 CTATAGCTTCATGAAGAAGGGCCAGATGGAGAAGGACATTCGTAGTGATGTAGAAGAATCAGACTCCAGT
 GAGGAGGTGGCGCGGCCAGGAACCTCTGCAGCTAAAGAACGGGGCAGCTGGAGGGCCAGGCCAGCCC
 CCACTGATGGCCCTCAGAGCCGGTGGCCGGCGTCTGACCAACAGGCACACAACAGCCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203402 representing NM_024552
 Red=Cloning site Green=Tags(s)

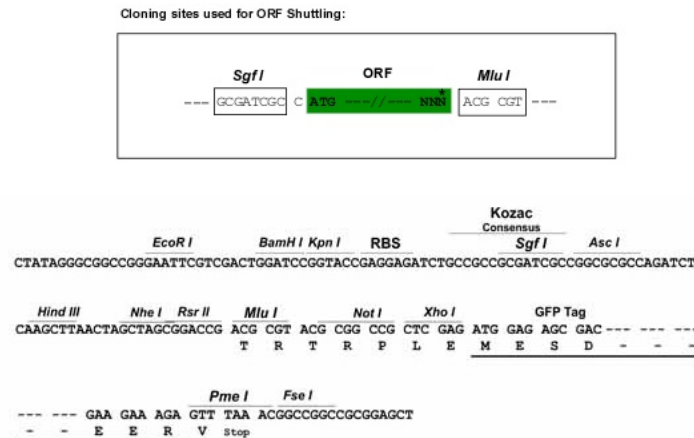
MLSSFNEWFWQDRFWLPNVTWTELEDGRVYHPQDLLAALPLALVLLAMRLAFERFVIGLPLSRWLGVRDQTRRQVKPNATLEKHFLTEGHRPKPEQLSLLAAQCGLTLQQTQRWFRRRRNQDRPQLTKKFCEASWRF
 LFYLSFVGGLSVLYHESWLWAPVMCWDYRPNQTLKPSLYWWYLLLELGFYLSLLIRLPFDVKRKDFKEQV
 IHHFVAVILMTFSYSANLLRIGSLVLLLDSSDYLLLEACKMVNYMQYQQVCDALFLIFSFVFFYTRLVLF
 PTQILYTTYYESISNRGPFFGYFFNGLMLLLQLLHVFWSCILRMLYSFMKKGQMEKDIRSDVEESDSS
 EEVAAAQEPLQLKNGAAGGPRPAPTDPGQSRVAGRLTNRHTTAT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_024552

ORF Size: 1182 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024552.1](#), [NP_078828.1](#)

RefSeq Size: 1774 bp

RefSeq ORF: 1185 bp

Locus ID: 79603

UniProt ID: [Q9HA82](#)

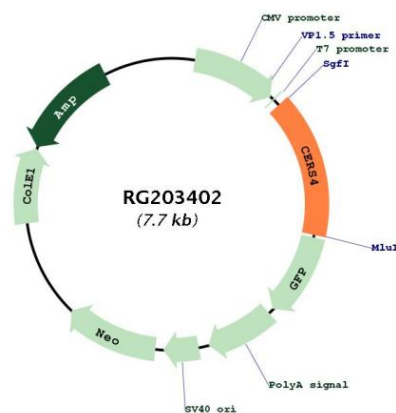
Cytogenetics: 19p13.2

Domains: LAG1, TLC

Protein Families: Transcription Factors, Transmembrane

Gene Summary: May be either a bona fide (dihydro)ceramide synthase or a modulator of its activity. When overexpressed in cells is involved in the production of sphingolipids containing different fatty acid donors (N-linked stearyl- (C18) or arachidoyl- (C20) ceramides) in a fumonisins B1-independent manner (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203402