

Product datasheet for **RG237945**

LASS3 (CERS3) (NM_001290341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LASS3 (CERS3) (NM_001290341) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LASS3
Synonyms:	ARCI9; LASS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237945 representing NM_001290341. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCTGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTTCACACCACTGCCAGAAGAGCTGCCAGAATGTTTTGGACGTTTAAAGAATGGTTCTGGTTGGAA
AGATTCTGGCTTCTCCAACAATAAAGTGGTCAGATCTTGAGGATCACGATGGACTCGTCTTTGTA
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GCGTTTCTTTATGATAAACCTTGCTATATGACTTATGGGAGGTTTGAATGGCTATCCCAAACAGCCC
CTGCTGCCATCCCAGTACTGGTACTACATTTTAGAAATGAGTTTTTATTGGTCTCTGTTATTTAGACTT
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AAAGGCAAAGAGATGGATTGTTTAAAGAACGGCCTCAGGGCTGAGAGGCACCTCATTCCCAATGGCCAG
CATGGCCAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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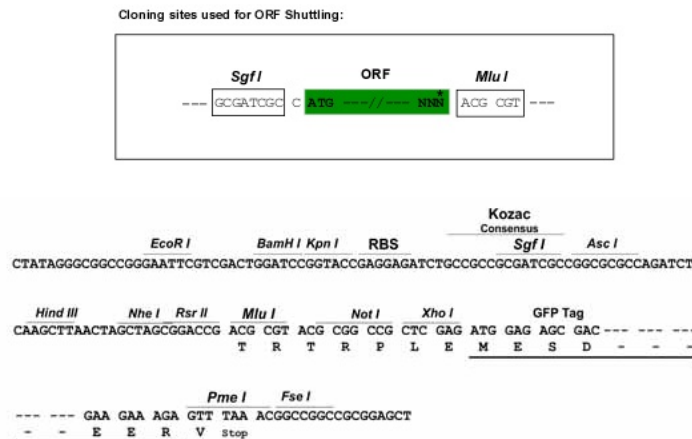
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237945
 Blue=ORF Red=Cloning site Green=Tag(s)

MLHTTARRAARMFWTFKEWFLERFWLPPTIKWSDLEDHDGLVFKPSHLYVTIPYAFLLLIIRRVFEK
 FVASPLAKSFGIKETVRKVTPNTVLENFFKHSTRQPLQTDIYGLAKKCNLTERQVERWFRSRNQERPS
 RLKKFQEACWRFAYFLMITVAGIAFLYDKPWL YDLWEVWNGYPKQPLLP SQYWYIEMSFWYSLLFRL
 GFDVKRKDFLAHI IHHLAAI SLMSFSWCANYIRSGTLVMI VHDVADIWLES AKMFSYAGWTQTCNTLFF
 IFSTIFFISRLIVFPFWILYCTLILPMYHLEPFFSYIFLNLQLMILQVLHLYWGYIILKMLNRCIFMKS
 IQDVRSDDEDYEEEEEEEEEEATKGKEMDCLKNGLRAERHLIPNGQHGH
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290341

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).

RefSeq: [NM_001290341.2](#), [NP_001277270.1](#)

RefSeq Size: 4089 bp

RefSeq ORF: 1185 bp
 Locus ID: 204219
 UniProt ID: [Q8IU89](#)

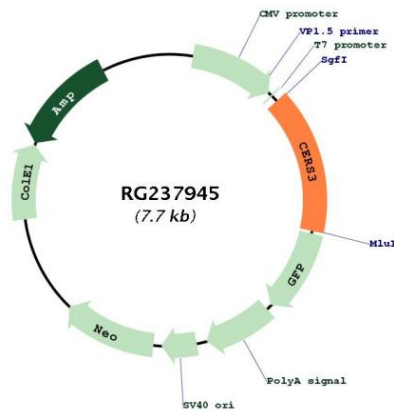
Cytogenetics: 15q26.3

Protein Families: Transcription Factors, Transmembrane

MW: 48 kDa

Gene Summary: This gene is a member of the ceramide synthase family of genes. The ceramide synthase enzymes regulate sphingolipid synthesis by catalyzing the formation of ceramides from sphingoid base and acyl-coA substrates. This family member is involved in the synthesis of ceramides with ultra-long-chain acyl moieties (ULC-Cers), important to the epidermis in its role in creating a protective barrier from the environment. The protein encoded by this gene has also been implicated in modification of the lipid structures required for spermatogenesis. Mutations in this gene have been associated with male fertility defects, and epidermal defects, including ichthyosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG237945