

Product datasheet for RC237876

LASS3 (CERS3) (NM_001290342) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LASS3 (CERS3) (NM_001290342) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LASS3
Synonyms:	ARCI9; LASS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237876 representing NM_001290342 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTTGGACGTTTAAAGAATGGTCTGGTTGGAAAGATTCTGGCTTCTCCAACAATAAAGTGGTCAG
ATCTTGAGGATCACGATGGACTCGTCTTTGTAACCTTCTCATTATACGTGACAATCCATATGCTTT
TCTCTTGCTGATTATCAGGCGTATTTGAAAAATTTGTTGCTTACCTTAGCAAAATCATTGGCATT
AAAGAGACAGTTCGAAAGTTACACCAAACTGTCTTAGAGAATTTTTCAAACATCCACAAGGCAAC
CATTGCAAATGATATTTATGGACTGGCAAAGAAGTGAACCTTGACGGAGCGCCAGGTGGAAAGATGGTT
TAGGAGTCGGCGGAATCAAGAGAGGCCCTCCAGGCTGAAGAAATCCAGGAAGCTTGCTGGAGATTGCA
TTTTACTTAATGATCACTGTTGCTGGAATTGCGTTTTCTTATGATAAACCTTGGCTATATGACTTATGGG
AGGTTTGGAAATGGCTATCCCAAACAGCCCTGCTGCCATCCCAGTACTGGTACTACATTTAGAAATGAG
TTTTTATTGGTCTCTGTTATTTAGACTTGGCTTTGATGTCAAGAGAAAGGATTTCTAGCTCATATCATC
CACCACCTGGCTGCTATTAGTCTGATGAGCTTCTTGGTGTGCTAATTATTCGCAGTGGGACCTCG
TGATGATTGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTTTTCTATGCTGGATGGAC
GCAGACCTGTAACACCCTGTTTTTCATCTTCTCCACCATTTTTTCATCAGCCGCTCATTGTTTTCT
TTCTGGATTTTATTTGCACGCTGATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATCTTC
TCAACCTACAGCTCATGATCTTGCAGGTCCTTACCTTTACTGGGTTATTACATCTTGAAGATGCTCAA
CAGATGTATTTATGAAGAGCATCCAGGATGTGAGGAGTGTACGAGGATTATGAAGAGGAAGAGGAA
GAGGAAGAAGAAGAGGCTACCAAAGGCAAAGAGATGGATTGTTTAAAGAACGGCCTCGGGCTGAGAGGC
ACCTCATTCCCAATGGCCAGCATGGCCAT

ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237876 representing NM_001290342
Red=Cloning site Green=Tags(s)

MFWTFKEFWLERFWLPPTIKWSDLEDHDGLVFKPSHLVVTIPYAFLLLIIRRVFEKFFVASPLAKSFGI
 KETVRKVTPNTVLENFFKHSTRQPLQTDIYGLAKKCNLTERQVERWFRSRRNQERPSRLKKFQEACWRFA
 FYLMITVAGIAFLYDKPWLVDLWEVWNGYPKQPLLPSQYWHYIEMSFYWSLLFRLGFDVKRKDFLAHII
 HHLAAISLMSFSWCANYIRSGTLVMIIVHDVADIWLES AKMFSYAGWTQTCNTLFFIFSTIFFISRLLIVFP
 FWILYCTLILPMYHLEPFFSYIFLNLQLMILQVLHLWGYIILKMLNRCIFMKSIQDVRSDDEDYEEEE
 EEEEEATKGKEMDCLKNGLGAERHLIPNGQHG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6724_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001290342

ORF Size: 1149 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_001290342.2](#)

RefSeq Size: 4042 bp

RefSeq ORF: 1152 bp

Locus ID: 204219

UniProt ID: [Q8IU89](#)

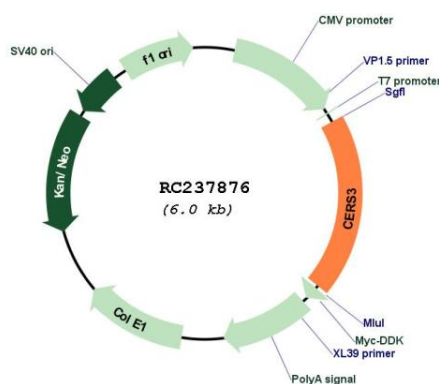
Cytogenetics: 15q26.3

Protein Families: Transcription Factors, Transmembrane

MW: 46.2 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 RC237876