

Product datasheet for RC237945

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:	Myc-DDK
Symbol:	CERS3
Synonyms:	ARCI9; LASS3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237945 representing NM_001290341 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTTCACACCCTGCCAGAAGAGCTGCCAGAATGTTTTGGACGTTTAAAGAATGGTTCTGGTTGGAAA
GATTCTGGCTTCCCAACAATAAAGTGGTCAGATCTTGAGGATCAGGATGGACTCGTCTTTGTAACC
TTCTCATTATACGTGACAATCCATATGCTTTTCTTCTGCTGATTATCAGACGTGATTTGAAAAATTT
GTTGCTTACCTCTAGCAAAATCATTGGCATTAAAGAGACAGTTCGAAAGGTTACACCAATACTGTCT
TAGAGAATTTTTCAAACATTCCACAAGCAACCATTGCAAACCTGATTTTATGGACTGGCAAAGAAGTG
TAACCTGACGGAGCGCCAGGTGGAAAGATGGTTTAGGAGTCGGCGGAATCAAGAGAGGCCTCCAGGCTG
AAGAAATCCAGGAAGCTTGCTGGAGATTTGCATTTTACTTAATGATCACTGTTGCTGGAATTGCGTTTC
TTTATGATAAACCTTGGCTATATGACTTATGGGAGTTTGGAAATGGCTATCCCAAACAGCCCTGCTGCC
ATCCCAGTACTGGTACTACATTTAGAAATGAGTTTTTATTGGTCTCTGTTATTTAGACTTGGCTTTGAT
GTCAAGAGAAAGGATTTCTAGCTCATATCACCACCTGGCTGCTATTAGTCTGATGAGCTTCTCTT
GGTGTGCTAATTATATTCGCAGTGGGACCCTCGTGATGATTGTACACGATGTGGCTGACATTTGGCTGGA
GTCTGCTAAGATGTTTTCTTATGCTGGATGGACGCAGACCTGTAACACCCTGTTTTTTCATCTTCCACC
ATATTTTTCATCAGCCGCTCATTGTTTTCTTTCTGGATTTTATATTGCACGCTGATCTTGCCTATGT
ATCACCTCGAGCCTTTCTTTTCATACATCTTCTCAACCTACAGCTCATGATCTTGCAGGCTCCTTACCT
TTACTGGGTTATTACATCTTGAAGATGCTCAACAGATGTATTTTCATGAAGAGCATCCAGGATGTGAGG
AGTGATGACGAGGATTATGAAGAGGAAGAGGAAGGAAGAAGAAGAGGCTACCAAAGGCAAGAGATGG
ATTGTTTTAAGAACGGCCTCAGGCTGAGAGGCACCTATTCCCAATGGCCAGCATGGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237945 representing NM_001290341
 Red=Cloning site Green=Tags(s)

MLHTTARRAARMFWTFKEWFWLERFWLPPTIKWSDLEDHDGLVFKPSHLYVTIPYAFLLLIIRRVFEKF
 VASPLAKSFGIKETVRKVTNPNTVLENFFKHSTROPLQTDIYGLAKKCNLTERQVERWFRSRRNQERPSRL
 KKFQEACWRFAFYLMITVAGIAFLYDKPWLYDLWEVWNGYPKQPLLPSQYWYIILEMSFYWSLLFRLGFD
 VKRKDFLAHIIHHLAAISLMSFSWCANYIRSGTLVMIIVHDVADIWLES AKMFSYAGWTQTCNTLFFIFST
 IFFISRLIVFPF WILYCTLILPMYHLEPFPSYIFLNLQMLQLVHLWGYIILKMLNRCIFMKSIQDVR
 SDDEDYEEEEEEEEEEATKGKEMDCLKNGLRAERHLIPNGQHGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

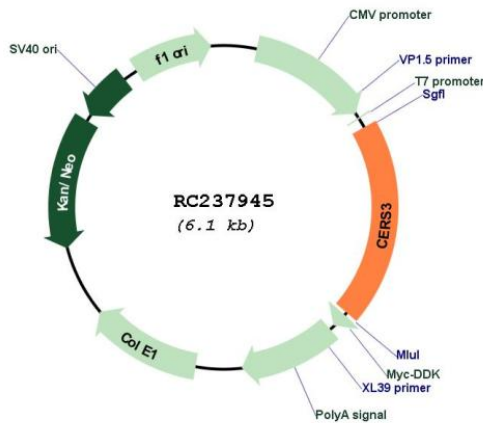
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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_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]