

## Product datasheet for **SC122492**

### LASS3 (CERS3) (BC028703) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LASS3 (CERS3) (BC028703) Human Untagged Clone
Tag:	Tag Free
Symbol:	LASS3
Synonyms:	CerS3; LAG1 homolog, ceramide synthase 3; LAG1 longevity assurance homolog 3; MGC27091; OTTHUMP00000194816
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC028703 edited  
 AGCGGCCTTGCAAAGTCCGTTAGGAGCGCTCCAGGGCTACAGTGCCAGCGGTTAAACAAG  
 TTTGTAATTACTTTCTGGTGGTTTCTACGTTGCAAATTGAGAAGAGGGTTGCTGGGTTGGG  
 CCCCCCTCTCTGGACGCTAACCCACCCAGGTGGTGAACAGGAAGCAACATCCCATCA  
 GGAAGAACCTGAGGGTGCCATCCAGTAGCTTCGCTCACGTCACTGACTGCCGTCACTCA  
 GAAATCTTGACTCGCAACTTTGGAGGGTGGTCTCTGAAGGAATTCAGGTCTTACACAG  
 AGATGAGTTGTGCTGCTCTCTGAGGAGAACGAAGCTGGTTGGAACGTTGGAAGCTGCTCT  
 CTGACTACACTTCAACAAGCAAGGGGCACCTTTTGTGGACTGACATTTAGAAAGGGATGT  
 TGTGAAACAAAAGCTGACATTTATATATATACATATATACAGTATTTGAGTTCCTCAG  
 TAGAAAGCTATCATATACTCAGAATGTTTTGGACGTTTAAAGAATGGTTCTGGTTGGA  
 AAGATTCTGGCTTCTCCAACAATAAAGTGGTCAGATCTTGAGGATCACGATGGACTCGT  
 CTTTGTAAAACCTTCTCATTTATACGTGACAATCCATATGCTTTTCTCTTGCTGATTAT  
 CAGGCGTGATTTTAAAAATTTGTTGCTCACCTCTAGCAAAATCATTGGCATTAAAGA  
 GACAGTTCGAAAGGTTACACAAATACTGTCTTAGAGAATTTTTCAAACATTCCACAAG  
 GCAACCATTGCAAACTGATATTTATGGACTGGCAAGAAGTGAACCTTGACGGAGCGCCA  
 GGTGAAAAGATGGTTTAGGAGTCGGCGGAATCAAGAGAGGCCCTCCAGGCTGAAGAAATT  
 CCAGGAAGCTTGCTGGAGATTTGCATTTTACTTAATGATCACTGTTGCTGGAATTGCGTT  
 TCTTTATGATAAACCTTGGCTATATGACTTATGGGAGGTTTGAATGGCTATCCCAAACA  
 GCCCTGCTGCCATCGCAGTACTGGTACTACATTTAGAAATGAGTTTTTATTGGTCTCT  
 GTTATTTAGACTTGGCTTTGATGTCAAGAGAAAGGATTTTCTAGCTCATATCATCCACA  
 CCTGGCTGCTATTAGTCTGATGAGCTTCTCTGGTGTGCTAATTATTCGCAGTGGGAC  
 CCTCGTGATGATTGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTTTTT  
 TTATCTGGATGGACGACGACCTGTAACACCCTGTTTTTTCATCTTCCACCATATTTTT  
 CATCAGCCGCTCATTGTTTTTCTTTTGGATTTTATATTGCAGCTGATCTTGCTAT  
 GTATCACCTCGAGCCTTTCTTTTATACATCTTCTCAACCTACAGCTCATGATCTTGCA  
 GGTCTTACCCTTACTGGGTTATTACATCTTGAAGATGCTCAACAGATGTATATTCAT  
 GAAGAGCATCCAGGATGTGAGGAGTGTGACGAGGATTATGAAGAGGAAGAGGAAGAGGA  
 AGAAGAAGAGGCTACCAAGGCAAGAGATGGATTGTTTAAAGAACGGCCTCGGGGCTGA  
 GAGGCACCTCATTCCCAATGGCCAGCATGGCCATTAGCTGGAAGCCTACAGGACTCCCAT  
 GGCACAGCATGCTGCAAGTACTGTTGGCAGCCTGGCTTCCAGGCCACACAGACCCACA  
 TTCTGCCCTTCCCTCTTCTCACCACCGCCTTCCCTCCCACCTAAGATGTGTTTACAAA  
 ATGTTGTTAACTTGTGTTAAAATGTTAAATATAAGCATGCCCATGGATTTTACTGCAAA  
 AAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC028703 unedited  
 NNNGGGGTATCAGAATATTTGTNAATACGNATTCATATAGGGCCGGCGCGNGAATT  
 CGNCCCTTCCACGNACCATGNACCATGNACCCTCCACACCAAAGCATCTGGATGGCC  
 CTAAGTGCATCAGATCCAAGGGAACGAGCTGGAGCCCTGAACCGTCCGCAGCTCAAGATC  
 CCCCTGGAGCGGCCCTGGGCGAGGTGTACCTGGACAGCAGCAAGCCCGCGTGTACAAC  
 TACCCCGAGGGCGCCGCTACGAGTTCAACGCGCGGCCGCATAACTTCGTATAGCATA  
 ATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGCGGCT  
 TGCAAAGTCCGTTAGGAGCGCTCCAGGGCTACAGTGCCAGCGGTTAAACAAGTTTGAAT  
 TACTTTCTGGGTTTCTACGTTGCAAATTGAGAAGAGGGTTGCTGGGTTGGGCCCCCTC  
 CTCTGGACGCTAACCCACCCAGGTGGTGAACAGGAAGCAACATCCCATCAGGAAGAAC  
 CTGAGGGTGCCATCCAGTAGCTTCGCTCACGTCACTGACTGCCGTCACTCAGAAATCTT  
 GACTCGCAACTTTGGAGGGTGGTCTCTGAAGGAATTCAGGTCTTACACAGAGATGAGT  
 TGTGCTGCTCTCTGAGGAGAACGAAGCTGGTTGGAACGTTGGAAGCTGCTCTGACTAC  
 ACTTACAAGCAAGGGGCACCTTTTGTGGACTGACATTTAGAAAGGGATGTTGTGAAAC  
 AAAAGCTGACATTTATATATATACATATATACAGTATTTGAGTTCCTCAGTAGAAAGC  
 TATCATATACTCAGAATGGTTTGGACGTTTAAAGAATGTGTCTGGTTTGGAAAGATTC  
 TGCCCTTCTCAACAATAAATGGCCGAATCTTGG

**Restriction Sites:** Please inquire

<b>ACCN:</b>	BC028703
<b>Insert Size:</b>	1872 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC028703.1</a></u> , <u><a href="#">AAH28703.1</a></u>
<b>RefSeq Size:</b>	1872 bp
<b>RefSeq ORF:</b>	1149 bp
<b>Locus ID:</b>	204219
<b>Cytogenetics:</b>	15q26.3
<b>Protein Families:</b>	Transcription Factors, Transmembrane
<b>Gene Summary:</b>	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]