

Product datasheet for **SC118683**

LSS (NM_002340) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSS (NM_002340) Human Untagged Clone
Tag:	Tag Free
Symbol:	LSS
Synonyms:	APMR4; CTRCT44; HYPT14; OSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_002340, the custom clone sequence may differ by one or more nucleotides

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ATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGGCCCCTACAAGACCGAGCCCGCCACCGACCTCGGCC
GCTGGCGACTCAACTGCGAGAGGGGCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGCGA
GCAGACCGGCCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCC
CACACCGCCTTTGAGGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACT
GGACGGGTGATTATGGTGGCCCACTTTTCTCCTGCCAGGCTCCTGATCACTTGCCACGTGGCACGCAT
CCCTCTGCCAGCCGATACAGAGAAGAGATTGTGCGGTACCTGCGGTGAGTGCAGCTCCCTGACGGTGCC
TGGGGCTGCACATTGAGGATAAGTCCACCGTGTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTC
TGGGTGTTGGGCCTGACGATCCTGACCTGGTACGAGCCCGGAACATTCTCACAAGAAAGGTGGTGTGT
GGCCATCCCTCCTGGGGGAAGTTCTGGCTGGCTGTCTGAATGTTTACAGCTGGGAAGGCCTCAATACC
CTGTTCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACACCCCTCCACACTCTGGTGCCACTGCC
GGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTTGGCTGAGTGGCGCGGAAGACCGCTGGTCCA
GAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGCGCAGAGGAACAACGTG
GCCCCCGACGAGCTGTACACGCCGCACAGCTGGTGTCTCCGCGTGGTATATGCGCTCCTCAACCTGTATG
AGCACCACCACAGTGCCACCTGCGGCAGCGGGCGGTGCAGAAGCTGTATGAACACATTGTGGCCGACGA
CCGATTACCAAGAGCATCAGCATCGGCCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGTG
GACGGGCGCCCTCCACTGCCTTCCAGGAGCATGTCTCCAGAATCCCGGACTATCTTGGATGGGCCTTG
ACGGCATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTGCCATCCAGGCTCTGCT
TGAGGCGGGCGGCACACAGGCCCGAGTTTTCGTCTGCCTGCAGAAGGCTCATGAGTTCCTGAGGCTC
TCACAGTCCCAGATAACCTCCCGACTACCAGAAGTACTACGCCAGATGCGCAAGGGTGGCTTCTCCT
TCAGTACGCTGGACTGCGGCTGGATCGTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGCTGTCTCT
GCAGGAGAAGTGTCCCATGTACCCGAGCAGATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTG
CTGAACATGAGAAATCCAGATGGAGGTTTCGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGC
TGCTGAACCCCTCGGAGGTCTTCGGGGACATCATGATTGACTACACCTATGTGGAGTGCACCTCAGCCGT
GATGCAGGCGCTTAAGTATTTCCACAAGCGTTTCCCGGAGCACAGGGCAGCGGAGATCCGGGAGACCCTC
ACGCAGGGCTTAGAGTTCTGTCGGCGGCAGCAGAGGGCCGATGGCTCCTGGGAAGGCTCCTGGGGAGTTT
GCTTCACCTACGGCACCTGGTTTGGCCTGGAGGCCTTCGCCTGTATGGGGCAGACCTACCGAGATGGGAC
TGCTGTGCAGAGGTCTCCCGGCCTGTGACTTCTGTCTGTCCCGGCAGATGGCAGACGGAGGCTGGGGG
GAGGACTTTGAGTCTGCGAGGAGCGGCGTTATTTGCAGAGTGCCAGTCCCAGATCCATAACACATGCT
GGGCCATGATGGGGCTGATGGCCGTTTCGGCATCCTGACATCGAGGCCCAGGAGAGAGGAGTCCGGTGTCT
ACTTGAGAAACAGCTCCCAATGGCGACTGGCCGAGGAAAACATTGCTGGGGTCTTCAACAAGTCTGT
GCCATCTCCTACAGGACTACAGGAACATCTTCCCATCTGGGCCCTCGGCCGCTTCTCCAGCTGTACC
CTGAGAGAGCCCTTGCTGGCCACCCCTGA

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Restriction Sites: NotI-NotI
ACCN: NM_002340
Insert Size: 4110 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_002340.3 , NP_002331.3
RefSeq Size:	4225 bp
RefSeq ORF:	2199 bp
Locus ID:	4047
UniProt ID:	P48449
Cytogenetics:	21q22.3
Domains:	prenyltrans
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis

Gene Summary:

The protein encoded by this gene catalyzes the conversion of (S)-2,3 oxidosqualene to lanosterol. The encoded protein is a member of the terpene cyclase/mutase family and catalyzes the first step in the biosynthesis of cholesterol, steroid hormones, and vitamin D. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2009]

Transcript Variant: This variant (1) differs in the 3' UTR, compared to variant 2. Variants 1 and 2 encode the same protein (isoform 1). Sequence Note: The RefSeq transcript and protein were derived from genomic and transcript sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.