

Product datasheet for **SC322588**

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)

Fully Sequenced ORF: >OriGene sequence for NM_002340 edited
 CCACGCGTCCGCCACGCGTCCGGTAGAGCACTGCAGCAGCAATGACGGAGGGCAGGTGT
 CTGCGGGCCCGAGGGGGCCCTACAAGACCGAGCCCGCCACCGACCTCGGCCGCTGGCGA
 CTCAACTGCGAGAGGGGGCCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGCCGC
 GAGCAGACCGGCCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGAC
 TTGCCAAAGCCACACCGCCTTTGAGGGGGCTCTGAACGGGATGACATTTTACGTGGGG
 CTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGGCCACTTTTCCTCTGCCA
 GGCCTCTGATCACTTGCACGTGGCAGCATCCCTCTGCCAGCCGGATACAGAGAAGAG
 ATTGTGCGGTACCTGCGGTACGTGCAGCTCCCTGACGGTGGCTGGGGCCTGCACATTGAG
 GATAAGTCCACCGTGTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTT
 GGGCCTGACGATCCTGACCTGGTACGAGCCCGAACATTTTACAAGAAAGGTGGTGTCT
 GTGGCCATCCCCTCCTGGGGAAAGTTCTGGCTGGCTGTCCTGAATGTTTACAGCTGGGAA
 GGCTCAATACCCTGTTCCAGAGATGTGGCTGTTTCCTGACTGGGCACCGGCACACCCC
 TCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTT
 CGGCTGAGTGCCGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAG
 GACTTCGCCAGCATTGACTGGCTGGCGCAGAGGAACAACGTGGCCCCGACGAGCTGTAC
 ACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCTCAACCTGTATGAGCACCAC
 CACAGTGGCCACCTGCCGAGCGGGCCGTGCAGAAGCTGTATGAACACATTGTGGCCGAC
 GACCGATTACCAAGAGCATCAGCATCGGCCGATCTCGAAAACCATCAACATGCTTGTG
 CGCTGGTATGTGGACGGGCCCGCCTCCACTGCCTTCCAGGAGCATGTCTCCAGAATCCCG
 GACTATCTCTGGATGGGCCTTGACGGCATGAAAATGCAGGGCACCAACGGCTCACAGATC
 TGGGACACCGCATTGCCATCCAGGCTCTGCTTGAAGCGGGCGGGCACCACAGGCCCGAG
 TTTTCGTCTGCCTGCAGAAGGCTCATGAGTTCCTGAGGCTCTCACAGGTCCCAGATAAC
 CCTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTCAGTACG
 CTGGACTGCGGCTGGATCGTTTCTGACTGCACGGCTGAGGCCTTGAAGGCTGTGTGCTC
 CTGCAGGAGAAGTGTCCCATGTACCGAGCACATCCCCAGAGAACGGCTCTGCGATGCT
 GTGGCTGTGCTGAACATGAGAAATCCAGATGGAGGGTTCGCCACCTATGAGACCAAG



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CGTGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCATGATT
 GACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAG
 CGTTTTCCCGGAGCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTC
 TGTCGGCGGCAGCAGAGGGCCGATGGCTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACC
 TACGGCACCTGGTTTGGCCTGGAGGCCCTCGCCTGTATGGGGCAGACCTACCGAGATGGG
 ACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCTGCTGTCCCGGCAGATGGCAGAC
 GGAGGCTGGGGGAGGACTTTGAGTCTCGGAGGAGCGGCTTATGTGCAGAGTGGCCAG
 TCCAGATCCATAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCCGCATCCTGAC
 ATCGAGGCCAGGAGAGAGGAGTCCGGTGTCTACTTGAGAAACAGCTCCCAATGGCGAC
 TGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCTGTGCCATCTCCTACACGAGC
 TACAGGAACATCTTCCCATCTGGGCCCTCGGCCGCTTCTCCAGCTGTACCCTGAGAGA
 GCCCTTGTGGCCACCCCTGAGAACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAG
 TGAGGCCAAGGGTCTGGCCGGTTGGGGAGCCCTCCATAACCCTGTCTTGGGCTCCA
 ACCCTCAACCTCTATCTCATAGATGTGAATCTGGGGCCAGGCTGGAGGCAGGGATGGG
 GACAGGGTGGGTGGCTTAGACTTGTGATTTTACTGTAGGTTCAATTTCTGAAAGTAGCTT
 GTCGGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCTGAGGAGGCACAGCGCCT
 TCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTCTGACCAATA
 GCTGAGTTCTTGGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTGAGTGGGCTC
 TGGGCTGGGGTCCGCCCTGGGCAGGCTTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGA
 CACGAGGGCAACCCTGTGACAATGGCAGGTAGTGTGCATCCGTAATAGCCCAAGTGGGG
 GGTTGCTCATGGAGCATCCTGAGGCCGTGCAGCAGGGAGCCCATGCCCTGGGTCGTGA
 GCTTGCCTGCGTATGGGGTGGTGTATGGAGCCATACCCCTGGGTTGTGAGCTCGCCTGCATGC
 AGGTCTGTGCATGGAACATCCCAAGTCTGTGCAGCAGGGAGCCCATGCCCTGGGACAT
 GAACCCACCTGCGTGAATGCTGTTTGTGAGGTGTCTACAGGTTTATAGTAGTCTTGTG
 GACACAGAAATGCACAGGGGACACTTACGGACACAGAAATGCACAGGGGAGGCCGAGCAT
 AACCGGGGTGAGGGGCAGGCAGCAGTTGTAGTACTGCCCGGGGCACTGCTATGTGCA
 GGGACAGCCAGCGCCAGCCATCACCCTCCCTGGGCTGGTGGCAGGTATGGCACCT
 GGGAGCCCGGCATATACCCAGGGCACCCCTACGGCTGCCGCCAGTCTCATGCCAGGTGG
 GTGCTCTGGGCTGGAGCGAGGGCCAGGTTTTGGCCGAGGCTTCCCAGGCAATCCTGTG
 AGCTCCCTTCTAGCCTCTGACCCAGTCTGGTCTGGCTTGCATGGATGTAGGGCTTGGGT
 GGGAAAGTTCAGGCTCCTGGCTTTGCCTTTGCCTGATGTGGATGAGCAGCTCACATGCTCAG
 GGCCACCTGAGACTGTCACTGCTCTCCCCTGGCTACTGGGAGGAGTCACTGAGAGCTTCG
 TTACCCCTGCTGCCTTGCCAGGGCACACCCTATACCTCCTCATCTGCTTTCCTCCCTCC
 TGCCGCTTCTGGGCAGGTAGCAGTCCCTGGCCTCTCCCCTGGCTGATCACTCTCCCTC
 AGGCAGTGGAGATCTGCGTCTGGACACCCTCAGATCCTGTCAATGCTGCCAGAGTCTCT
 TCAGGGGCACCCCTCTGCCTTGGTGTGCGGTCCAGGGCTCTACCCAGGTGCCGACCCT
 CTGGGGTCTTCTGTCCAGCTCCCTTGGCCATGTGCTGTCACTGACTCTCCTTGGGACTC
 GCCTGCCCTGCTCAGAGCCCTGCAGGGCTTGGTCAGCTGCCTGTTTCAAGTGTCAACACTTCC
 CTGCACATCTTAAACTGGGCTTTATTTTCGCTGAAGGAAGTGTGTTGGGACCCTTGACA
 TCTGTGAGGTTTGCACATGCTGTTTTTTTTTCTCAGCCACGTGTTCTCCCCACGTGGG
 GTAGCAGCAGGACAGACAGTGAATCACAGAGTCTGCCCTGAGCAGAGGCTGCTGTCCCTG
 GGACTCTAGCCATGGTCAAGTGTACAAAACGGTTTTCCAGAAATGAAATGTAATCCA
 TTTTATACTGAAAATGTTACTGAAAGTCACTTTTATGAGCATCTGCCTAATAAACAGA
 CATTGATCCCTTATCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_002340
Insert Size: 4300 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>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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.