

Product datasheet for **RG207793**

LSS (NM_002340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSS (NM_002340) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LSS
Synonyms:	APMR4; CTRCT44; HYPT14; OSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG207793 representing NM_002340
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGCCCCACAAGACCGAGCCCGCCACCGACCTCGGCC
 GCTGGCGACTCAACTGCGAGAGGGGCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGCGCGA
 GCAGACCGGCCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCC
 CACACCGCCTTTGAGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACT
 GGACGGGTGATTATGGTGGCCCACTTTTCTCTGCCAGGCCTCCTGATCACTTGCCACGTGGCAGCAT
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 GCCATCTCCTACACGAGCTACAGGAACATCTTCCCCTCTGGGCCCTCGGCCGCTTCTCCAGCTGTACC
 CTGAGAGAGCCCTTGCTGGCCACCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207793 representing NM_002340
 Red=Cloning site Green=Tags(s)

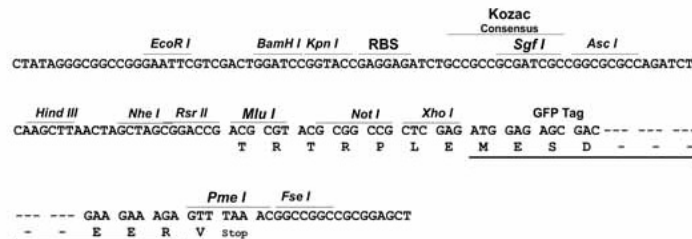
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 SQVPDNPDPYQKYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVL
 LNMRNPDGGFATYETKRGGHLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETL
 TQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAESRACDFLLSRQMDGGWG
 EDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSC
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TRTRPLE – GFP Tag – V

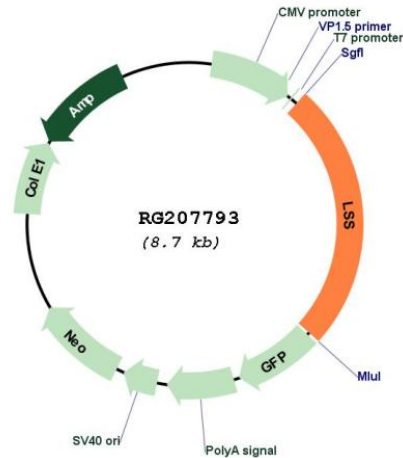
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_002340

ORF Size: 2196 bp

OTI Disclaimer: 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.

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:	<u>NM_002340.6</u>
RefSeq Size:	4258 bp
RefSeq ORF:	2199 bp
Locus ID:	4047
UniProt ID:	<u>P48449</u>
Cytogenetics:	21q22.3
Domains:	prenyltrans
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Steroid biosynthesis
Gene Summary:	<p>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]</p>