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Product datasheet for RG226713

LSS (NM_001145436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LSS (NM_001145436) 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)

View online »

ORF Nucleotide Sequence:

>RG226713 representing NM_001145436
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGAGGGCACGTGTCTGCGGCGCCGAGGGGGCCCCTACAAGACCGAGCCCGCCACCGACCTCGGCC
GCTGGCGACTCAACTGCGAGAGGGGCCGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGCGA
GCAGACCGGCCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCC
CACACCGCCTTTGAGGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACT
GGACGGGTGATTATGGTGGCCCACTTTTCCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCACGCAT
CCCTCTGCCAGCCGGATACAGAGAAGAGATTGTGCGGTACCTGCGGCACATTGAGGATAAGTCCACCGTG
TTTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCCTGACGATCCTGACCTGGTAC
GAGCCCGGAACATTCTTCACAAGAAAGGTGGTGCTGTGGCCATCCCCTCCTGGGGGAAGTTCTGGCTGGC
TGTCCTGAATGTTTACAGCTGGGAAGGCCTCAATACCCTGTTCCCAGAGATGTGGCTGTTTCCTGACTGG
GCACCGGCACACCCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACG
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CCCGGAGCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTCGGCGGCAGCAG
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CCTGCTGTCCCGGCAGATGGCAGACGGAGGCTGGGGGGAGGACTTTGAGTCCTGCGAGGAGCGGCGTTAT
TTGCAGAGTGCCCAGTCCCAGATCCATAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCGGCATC
CTGACATCGAGGCCCAGGAGAGAGGAGTCCGGTGTCTACTTGAGAAACAGCTCCCCAATGGCGACTGGCC
GCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCTGTGCCATCTCCTACACGAGCTACAGGAACATCTTC
CCCATCTGGGCCCTCGGCCGCTTCTCCCAGCTGTACCCTGAGAGAGCCCTTGCTGGCCACCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226713 representing NM_001145436
Red=Cloning site Green=Tags(s)

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWTYLQDERAGREQTGLEAYALGLDTKNYFKDLPKA
HTAFEGALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRHIEDKSTV
FGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGLNTLFPEMWLFPDW
APAHPSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSW
LLRVVYALLNLYEHHHSAHLRQRAVQKLYEHIVADDRFTKSISIGPISKTINMLVRWYVDGPASTAFQEH
VSRIPDYLWMGLDGMKMQGTNGSQIWDTAFAIQALLEAGGHHRPEFSSCLQKAHEFLRLSQVPDNPPDYQ
KYYRQMRKGGFSFSTLDCGWIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFA
TYETKRGGHLLELLNPSEVFGDIMIDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQ
RADGSWEGSWGVCFTYGTWFGLEAFACMGQTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRY
LQSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVRCLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIF
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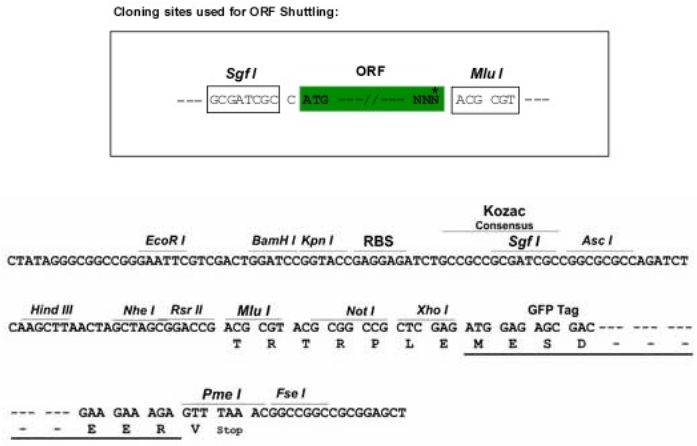
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145436

ORF Size: 2163 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:
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_001145436.2

RefSeq Size: 4225 bp

RefSeq ORF: 2166 bp

Locus ID: 4047

UniProt ID: P48449

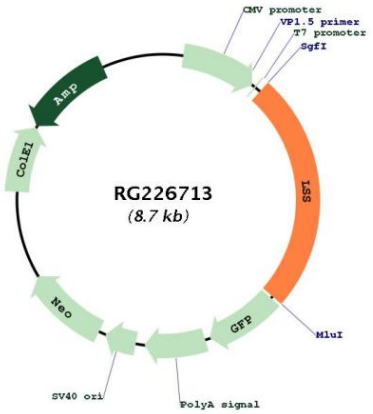
Cytogenetics: 21q22.3

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]

Product images:



Circular map for RG226713