

## Product datasheet for **MG210347**

### Lss (NM\_146006) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | Lss (NM_146006) Mouse Tagged ORF Clone         |
| Tag:                      | TurboGFP                                       |
| Symbol:                   | Lss  |
| Synonyms:                 | 2810025N20Rik; D10Ertd116; D10Ertd116e; O; Osc |
| Mammalian Cell Selection: | Neomycin                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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ORF Nucleotide  
Sequence:

>MG210347 representing NM\_146006  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGACTGAGGGCACGTGTCTGCGCGCTCGTGGGGACCCTATAAACTGAGCCCGCCACCGATCTCACCC  
 GCTGGCGGCTCCAGAATGAGTTGGGTCGGCAGAGATGGACTTATTATCAAGCGGAGGACGACCCTGGTCCG  
 AGAGCAGACCGGGCTAGAGGCCACTCTTTGGGACTGGACACAAGAAGTTATTTACGGACTTACAAAA  
 GCGCAAACAGCCCATGAGGGGGCCCTGAATGGAGTAACCTTTTATGCCAAGCTGCAGGCTGAGGATGGAC  
 ACTGGGCTGGTGATTATGGTGGTCCGCTCTTCTCTTGGCAGGTCTCTGATTACCTGTCACATATCACA  
 CATCTCTCTGCCAGTGGATACAGAGAGGAGATGGTGGGTACCTGCGGTACGTGCAGCTCCCTGATGGC  
 GGCTGGGCTTGACATCGAGGACAAGTCCACAGTGTGGGACTGCCCTGAACTATGTGGCTCTCAGAA  
 TCCTGGGTATTGGCCTGATGATCCTGACCTGTGCGCGCTCGGAACGTCCTTCAAAAAAGTGGTGC  
 GGTGGCCATCCCTTCTGGGGAAAGTTCTGGCTGGCTGTCTGAATGTTTATAGCTGGGAAGGACTCAAC  
 ACCCTATTCCTGAGATGTGGCTGTTTCTGAATGGGTACCAGCGCACCCCTCCACTCTCTGGTGTCACT  
 GCCGCGAGGTCTATCTGCCCATGAGTTACTGCTACGCCACTCGGTAAGTGCCTCAGAGGACCCACTGGT  
 TCAGAGCCTCCGCCAGGAAGTCTATGTGCAGGATTACGCCAGCATCGATTGGCCAGCGCAGAGGAACAAC  
 GTGTCCCCGATGAGATGTACACGCCACACAGCTGGTGTGTCATGTGGTGTATGGACTCCTCAACTGT  
 ATGAACGTTTCCATAGCACCAGCCTGCGGAAGTGGGCCGTCCAGATGCTGTATGAACACATTGCAGCTGA  
 TGACTGTTTCACTAAGTGCATCAGCATCGGCCGATCTCAAAGACCATCAACATGCTTGTTCGTTGGTCA  
 GTGGATGGACATCCTCCCCGGCCTTCCAGGAGCACGTTTCTCGGATCAAAGATTACCTTGGCTGGCC  
 TTGATGGCATGAAAATGCAGGGCACCAATGGATCACAGATCTGGGACACTTCATTTGCTATCCAAGCACT  
 GTTAGAGCAGGTGCACACCACAGACTGAGTTTCTGCCCTGCCTGCAGAAGGCTCACGAGTTCCTGCGG  
 CTTTACAGGTTCCAGAAAAGTGTCTGACTATCAGAAGTACTATCGCCATATGCGCAAGGGTGGTTTCT  
 CCTTCAGCACTGGACTGTGGCTGGATCGTTGCTGACTGCACAGCCGAGGGTTTGAAGGCTGTGCTGCT  
 CCTGCAGAATCAGTGCCGTCCATCACTGAGCATATCCCCGAGAGCGGCTGTGCGATGCTGTGGATGTG  
 TTAGTGTGAGGAAATGCTGATGGCGGGTTCGCTACCTATGAGAAGAAGCGTGGGGTTACTTGTCTGG  
 AGCTGCTGAACCCCTCAGAGGTCTTTGGAGACATCATGATTGACTACACGTATGTAGAGTGTACCTCCGC  
 TGTGATGCAGGCACTGAAGCATTCCATGAACACTTCCCAGACTACAGGGCAGCAGAGGTGAGGGAGACC  
 CTAATCAAGGCCTGGACTTCTGCCAAGGAAGCAGAGAGCCGATGGCTCCTGGGAGGGCTCCTGGGGTG  
 TTTGTTTACCTACGGCACCTGGTTTGGCTTGGAAAGCGTTTCGCTTGCATGGGGCATACCTACCAAGATGG  
 GGCTGCTTGTGCAGAAGTAGCTCAGGCCTGCAACTTCTCCTGTCCCAGCAGATGGCGGATGGAGGCTGG  
 GGAGAGGACTTTGAATCATGTGAACAGCGCGGTATGTGCAGAGTGTAGGTCCCAGGTCCATAGCACCT  
 GCTGGGCCTGATGGGTTTGTGGCTGTGAGGCATCCCCGACACTGCTCAGGAGAGGGGATCAGATG  
 TCTGCTAGGGAAGCAGTTACCAATGGAGACTGGCCTCAGGAGAACATCTCTGGGGTCTTCAACAAGTCC  
 TGTGCCATCAGCTACACAAGTTACAGAAACATCTTCCCCTCTGGGCCCTGGGCCGCTTCTCAACTGT  
 ATCCTGACAATACCCTCGCCGGCCACATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210347 representing NM\_146006  
 Red=Cloning site Green=Tags(s)

MTEGTCLRRRGGPYKTEPATDL TRWRLQNELGRQRWYTYQAEDDPGREQTGLEAHSGLDTRSFTDLPK  
 AQTAEHALNGVTFYAKLQAEDGHWAGDYGGPLFLLPGLLITCHISHISLPAGYREEMVRYLRSVQLPDG  
 GWGLHIEDKSTVFGTALNYVALRILGIGPDDPDLVRARNVLHKKGGAVAIPSWGKFWLAVLNVYSWEGLN  
 TLFPEMWLFPEWVPAHPSTLWCHCRQVYLPMSYCYATRLSASEDPLVQSLRQEL YVQDYASIDWPAQRNN  
 VSPDEMYTPHSWLLHVYGLLNL YERFHSTSLRKWAVQMLYEHIAADDCFTKCISIGPISKINMLVRWS  
 VDGPPSPAFQEHVSRIKDYLWLGLDGMKMQGTNGSQIWDTSFAIQALLEAGAHHRPEFLPCLQKAHEFLR  
 LSQVPENCPDYQKYRHRMRKGGFSFSTLDCGWIVADCTAEGLKAVLLQNQCPSITEHIPRERLCAVDV  
 LLSLRNADGGFATYEKKRGGYLLELLNPSEVFGDIMIDYTYVECTSAVMQALKHFHEHPDYRAAEVRET  
 LNQGLDFCRRKQRADGSWEGSWGVCFTYGTWFGLEAFACMGHTYQDGAACA EVAQACNFLLSQQMADGGW  
 GEDFESCEQRRYVQSARSQVHSTCWALMGLMAVRHPDITAQERGIRCLLGKQLPNGDWPQENISGVFNKS  
 CAISYTSYRNIFPIWALGRFSNLYPDNTLAGHI

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146006

**ORF Size:** 2199 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\\_146006.2](#), [NP\\_666118.1](#)

**RefSeq Size:** 3192 bp

**RefSeq ORF:** 2202 bp

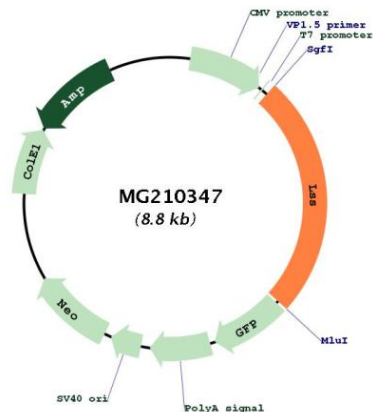
**Locus ID:** 16987

**UniProt ID:** [Q8BLN5](#)

**Cytogenetics:** 10 39.1 cM

**Gene Summary:** This gene encodes an enzyme that 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. [provided by RefSeq, Feb 2015]

## Product images:



Circular map for MG210347