

Product datasheet for **MR206971L2V**

Sptlc3 (NM_175467) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | Sptlc3 (NM_175467) Mouse Tagged ORF Clone Lentiviral Particle |
| Symbol: | Sptlc3 |
| Synonyms: | C130053K05Rik |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-mGFP (PS100071) |
| Tag: | mGFP |
| ACCN: | NM_175467 |
| ORF Size: | 1314 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR206971). |
| 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. |
| RefSeq: | NM_175467.3 |
| RefSeq Size: | 2759 bp |
| RefSeq ORF: | 1692 bp |
| Locus ID: | 228677 |
| UniProt ID: | Q8BG54 |
| Cytogenetics: | 2 F3 |



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Gene Summary:

Serine palmitoyltransferase (SPT). The heterodimer formed with LCB1/SPTLC1 constitutes the catalytic core. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. SPT complexes containing SPTLC3 generate shorter chain sphingoid bases compared to complexes containing SPTLC2. The SPTLC1-SPTLC3-SPTSSA isozyme uses C12-CoA, C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA. On the other hand, the SPTLC1-SPTLC3-SPTSSB has the ability to use a broader range of acyl-CoAs without apparent preference.[UniProtKB/Swiss-Prot Function]