

## Product datasheet for **SC216486**

### SPPL3 (NM\_139015) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	SPPL3 (NM_139015) Human 3' UTR Clone
Symbol:	SPPL3
Synonyms:	IMP2; MDHV1887; PRO4332; PSH1; PSL4
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_139015
Insert Size:	2000 bp



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**Insert Sequence:** >SC216486 3'UTR clone of NM\_139015  
 The sequence shown below is from the reference sequence of NM\_139015. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TCCAGCAGCTCCCGATTCTGGAAGTATGATGGATCACGTGGAAAGTGACCAGATGGCCGTCATAGTCC
TTTTCTCTCAACTCATGGTTTGTTCCTCTTAGAGCTGGCCTGGTACTCAGAAATGTACCTGTGTTTAA
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GTTTGGTTCCTTCTTCTGCGGATGTAGAGGTGGGGCCCTTCCAAGAGGGACAGGCCTCTCCCAG
CGCGCCTTCTCCACGTTTTTATGGATCTGCACCAGACTGTTACCTTCTGGGGAGATGGAGATTTGA
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AGCAAACCGAAGTTTCTCAATGACCCCTCGAGAAGTTGGGACCAGTTTCTATAGGGACTCAGTTT
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TACGTACATATATATATAAACACACACATAGATATATGAATAAACAAAAATGAAATCCTGCTAAG
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GTGCTGATTGATAGACTCATGGACTTCAGGAGCCCTACTTGGTTTTGATCAGTGTAGCAAATTAG
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TTACCTAAGCAGCCCTGCCTGGTAAGAAGGTGCCATTGTTCAAGGCAAGAGAAGCCTGCGGTTGG
CATGAGGATGCCTGACAACAAAGGCTGGAGAAGGGCCCTGAGTTCAGCCTCTCCCAAGGGTCCCCGC
CCCAGTGGCTGCCTCTGTCTTACCTGTGTAATGAATTAGTGTGCTGTGCACTGTGGCTGAAGTAC
TGTGGATCGAGCTCACAGGGGGCACCCATCCTGTTGTCAACAGAGTCTGAAGCAGTCAGGGTGTGGAT
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GTAGCCTTTGTACATAATCTTCACTTTGGTTGTTGGTACCAAACAGAGCTCCAGCCATCTCCTCCT
GTTCTGGAAGACTGATGGGAAGACTCTGTCTGTCCCCAGACCTGGTCATCTGCAGCTCTGGCCAGTCA
TAGATACATCAAAGAAGTGAAGCTTCTGCTGTCCACAGAACTCAAACCTGCCTCTGCATTGGGTGAAG
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_139015.5](#)

**Summary:**

Intramembrane-cleaving aspartic protease (I-CLiP) that cleaves type II membrane protein substrates in or close to their luminal transmembrane domain boundaries (PubMed:16873890, PubMed:25354954, PubMed:25827571). Acts like a sheddase by mediating the proteolytic release and secretion of active site-containing ectodomains of glycan-modifying glycosidase and glycosyltransferase enzymes such as MGAT5, B4GAT1 and B4GALT1 (PubMed:25354954, PubMed:25827571). Catalyzes the intramembrane cleavage of the envelope glycoprotein gp130 and/or the leader peptide gp18LP of the simian foamy virus independent of prior ectodomain shedding by furin or furin-like proprotein convertase (PC)-mediated cleavage proteolysis (PubMed:23132852). May also have the ability to serve as a shedding protease for subsequent intramembrane proteolysis by SPPL2A and SPPL2B of the envelope glycoprotein gp130 (PubMed:23132852). Plays a role in the regulation of cellular glycosylation processes (PubMed:25354954). Required to link T-cell antigen receptor (TCR) and calcineurin-NFAT signaling cascades in lymphocytes by promoting the association of STIM1 and ORAI1 during store-operated calcium entry (SOCE) in a protease-independent manner (PubMed:25384971).[UniProtKB/Swiss-Prot Function]

**Locus ID:**

121665

**MW:**

74.3