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Product datasheet for SC322001

SPPL3 (NM_139015) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPPL3 (NM_139015) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPPL3
Synonyms:	IMP2; MDHV1887; PRO4332; PSH1; PSL4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

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>OriGene sequence for SC322001
GCTGCAGCGGAGCCGCCGCCGCCGCCGCGGGTGAGGGAGGCCGAGAGCGGAGCCCGCCCC
GCCCCGGGGCCCAGGGAGCGGGGCCGCCTCGGAGCCCGGCCTCTCCCCGCCAGCCGCCTT
CCCGGCCCGCCGTGCAGCCAGCGAGCCAGCGAGCGAGCAAGCAAGCAAGCACCGGACCCC
GGCCGCGCCTTCAGCTACGGCCCGAGCGAGCCCGCCGCCGCCGGGCCCGGCCACAGCCTG
CAGCGGAGCCCACGAGAGGCAGCGCCATGGCGGAGCAGACCTACTCGTGGGCCTATTCCC
TGGTGGATTCCAGTCAAGTGTCTACATTTCTGATTTCCATTCTTCTTATAGTCTATGGTA
GTTTCAGGTCCCTTAATATGGACTTTGAAAATCAAGATAAGGAGAAAGACAGTAATAGTT
CTTCTGGGTCTTTCAATGGCAACAGCACCAATAATAGCATCCAAACAATTGACTCTACCC
AGGCTCTGTTCCTTCCAATTGGAGCATCTGTCTCTCTTTTAGTAATGTTCTTCTTCTTTG
ACTCAGTTCAAGTAGTTTTTACAATATGTACAGCAGTTCTTGCAACGATAGCTTTTGCTT
TTCTTCTCCTCCCGATGTGCCAGTATTTAACAAGACCCTGCTCACCTCAGAACAAGATTT
CCTTTGGTTGCTGTGGACGTTTCACTGCTGCTGAGTTGCTGTCATTCTCTCTGTCTGTCA
TGCTCGTCCTCATCTGGGTTCTCACTGGCCATTGGCTTCTCATGGATGCACTGGCCATGG
GCCTCTGTGTCGCCATGATCGCCTTTGTCCGCCTGCCGAGCCTCAAGGTCTCCTGCCTGC
TTCTCTCAGGGCTTCTCATCTATGATGTCTTTTGGGTATTTTTCTCAGCCTACATCTTCA
ATAGCAACGTCATGGTGAAGGTGGCCACTCAGCCGGCTGACAATCCCCTTGACGTTCTAT
CCCGGAAGCTCCACCTGGGGCCCAATGTTGGGCGTGATGTTCCTCGCCTGTCTCTGCCTG
GAAAACTGGTCTTCCCAAGCTCCACTGGCAGCCACTTCTCCATGTTGGGCATCGGAGACA
TCGTTATGCCTGGTCTCCTACTATGCTTTGTCCTTCGCTATGACAACTACAAAAAGCAAG
CCAGTGGGGACTCCTGTGGGGCCCCTGGACCTGCCAACATCTCCGGGCGCATGCAGAAGG
TCTCCTACTTTCACTGCACCCTCATCGGATACTTTGTAGGCCTGCTCACTGCTACTGTGG
CGTCTCGCATTCACCGGGCCGCCCAGCCCGCCCTTCTCTATTTGGTGCCATTTACTTTAT
TGCCACTCCTCACGATGGCCTATTTAAAGGGCGACCTCCGGCGGATGTGGTCTGAGCCTT
TCCACTCCAAGTCCAGCAGCTCCCGATTCCTGGAAGTATGATGGATCACGTGGAAAGTGA
CCAGATGGCCGTCATAGTCCTTTTCTCTCAACTCATGGTTTGTTTCCTCTTAGAGCTGGC
CTGGTACTCAGAAATGTACCTGTGTTTAAGGAACTGCCGTGTGACTGGATTTGGCATTTA
AAGGGAGCTCGTTTGCAGGAGAGAGGTGCTGGAGCCCTGTTTGGTTCCTTCTCTTCCTGC
GGATGTAGAGGTGGGGCCCCTTCCAAGAGGGACAGGCCTCTCCCCAGCGCGCCTTCCTCC
CACGTTTTTATGGATCTGCACCAGACTGTTACCTTCTGGGGGAGATGGAGATTTGACTGT
TTAAAAACTGAAAACAGCGAGGAGTCTTTCTAGAACTTTTGAACACTAAAAGGATGAAAA
AAATTAGCAAACCGAAGTTTCTTCAATGACCCCTCGAGAACTTTGGGACCAGTTTCCTAT
AGGGGACTCAGTTTCAGAGAACTGAGACAGAAGCTCTTCTGTCGTTATATTCTTCTTTCC
TTTTTTTGGATTTATTAAATATTTTCTGTGGTGTGAAGTGACTTATTAAATCCACAGACA
TTGAGTGACTTCTTACAACATCCACATAAGAATTTGTTGTAATGAGTTCATGTCCACCCA
GATGTTGTGTTGGCAGTGAACAAGGGCACGGTTTTTATACATACGTACATATATATATAT
AAACACACACATAGATATATATGAATAAACAAAAATGAAATCCTGCTAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_139015

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_139015.3, NP_620584.2
RefSeq Size:	3432 bp
RefSeq ORF:	1155 bp
Locus ID:	121665
UniProt ID:	Q8TCT6
Cytogenetics:	12q24.31
Domains:	PSN, DUF435
Protein Families:	Protease, Transmembrane
Gene 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-modifiying 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]