

Product datasheet for SC120625

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:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120625 sequence for NM_139015 edited (data generated by NextGen Sequencing)

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ATGGCGGAGCAGACCTACTCGTGGGCCATTCCCTGGTGGATTCCAGTCAAGTGTCTACA
TTTCTGATTTCCATTCTTCTTATAGTCTATGGTAGTTTCAGGTCCCTTAATATGGACTTT
GAAAATCAAGATAAGGAGAAAGACAGTAATAGTTCTTCTGGGTCTTTCAATGGCAACAGC
ACCAATAATAGCATCCAAACAATTGACTCTACCCAGGCTCTGTTCCCTCCAATTGGAGCA
TCTGTCTCTCTTTAGTAATGTTCTTCTTTGACTCAGTTCAAGTAGTTTTTACAATA
TGTACAGCAGTTCTTGAACGATAGCTTTTGCTTTTCTCTCCTCCCGATGTGCCAGTAT
TTAACAAGACCCTGCTCACCTCAGAACAAGATTCCTTTGGTTGCTGTGGACGTTTCACT
GCTGCTGAGTTGCTGTCATTCTCTGTCTGTCTGCTCGTCTCATCTGGGTTCTCACT
GGCCATTGGCTTCTCATGGATGCACTGGCCATGGGCCTCTGTGTGCCATGATCGCCTTT
GTCCGCTGCGGAGCCTCAAGGTCTCCTGCCTGCTTCTCTCAGGGCTTCTCATCTATGAT
GTCTTTTGGGTATTTTTCTCAGCCTACATCTTCAATAGCAACGTCATGGTGAAGGTGGCC
ACTCAGCCGGCTGACAATCCCCTTGACGTTCTATCCCGGAAGCTCCACCTGGGGCCCAAT
GTTGGGCGTGATGTTCTCGCCTGTCTCTGCTGGAAAAGTGGTCTTCCCAAGCTCCACT
GGCAGCCACTTCTCCATGTTGGGCATCGGAGACATCGTTATGCCTGGTCTCCTACTATGC
TTTGTCTTCGCTATGACAACACAAAAAGCAAGCCAGTGGGGACTCCTGTGGGGCCCT
GGACTTTGTAGGCCTGCTCACTGCTACTGTGGCCTCTCGATTACCCGGGCCGCCAG
CCCGCCCTTCTCTATTTGGTGCCATTTACTTTATTGCCACTCCTCACGATGGCCTATTTA
AAGGGCGACCTCCGGCGGATGTGGTCTGAGCCTTTCCACTCCAAGTCCAGCAGCTCCCGA
TTCCTGGAAGTATGA

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Clone variation with respect to NM_139015.4



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_139015 unedited AAAAACGTTCCCCGCCCGTTGCACGCTTGGGCGGTAGGCGTGTACGGTGGGAGGTCTATA TAAGCAGAGTTTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGG CCGCGAATTCGGCAGCAGAGCGGGTGTGATCGAGTGGCCTCGCCTCATCGCTAGCGCCCC CCTCAGTCGCGCCGCCCTCCGCCCGCCGCCATGTCCCCGGCCGCCGCCGCCGCCGCC GAGCGCGGCGCTCCCGCGGCCCGCGCGCAGTGAGCGCGGGCCCGTCTTGCCGTTCCGCC GCCCCAGGGCCCCCTTGTCTCCGCCCGCCGCCGCCCATGTTGGGTTTGGAGCTGCA GCGGAGCCGCGCCGCCCGCGGGTGTAGGGAGCCGAGAGCGGAGCCGCCGCCGCCGCCCG GGGCCAGGGAGCGGGCCGCCCTCGGAGCCCGCCTCTCCCCGCCAGCCGCTTCCCGGC CCGCGTGCAGCCAGCGAGCCAGCGAGCGAGCAAGCAAGCAAGCACCGGACCCCGGCCG GCCTTCAGCTACGGCCGAGCGAGCCCGCCGCCCGGGCCCGGCCACAGCCTGCAGCGG AGCCACGAGAGGCGCCATGGCGGAGCAGACTACTCGTGGGCCTATTCCCTGGTGG ATTCCAGTCAAGTGTCTACATTTCTGATTTCCATTCTTCTTATAGTCTATGGTAGTTTT AGGTCCCCTTAATATGGACCTTTGAAAATCAAGATAAGGAGAAAGACAGNNATAGTTCTT TCTGCGGTCTNTTCAATGGGACCAGCACCAATAATAGCATCCCAACCATTGACTCTACC AGNNGCTCTGTCTTTCCATTGGAGCATCTGNCTCTTTTTACTAATGGTCTCTTTTG ACTCAGTCCACGGNAGTTTTACAATGGTCAACGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_139015
Insert Size:	2300 bp
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).
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:	<ol style="list-style-type: none"> 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-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]