

Product datasheet for **RC206384**

SPPL2A (NM_032802) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPPL2A (NM_032802) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPPL2A
Synonyms:	IMP3; PSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206384 representing NM_032802
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCGACGCGGCGGCTGTCCCTGCCGGGCGCCCTACTCTGGGGCTTCTGCTCCAGCTGACAG
 CCGCTCAGGAAGCAATCTTGCATGCGTCTGAAAATGGCACAACCAAGGACTACTGCATGCTTTATAACCC
 TTATTGGACAGCTCTTCCAAGTACCCTAGAAAATGCAACTTCCATTAGTTTGATGAATCTGACTCCACA
 CCACTATGCAACCTTTCTGATATTCCTCCTGTTGGCATAAAGAGCAAAGCAGTTGTGTTCCATGGGGAA
 GCTGCCATTTTCTGAAAAGCCAGAATTGCACAGAAAGGAGGTGCTGAAGCAATGTTAGTTGCAATAA
 CAGTGTCTATTTCTCCCTCAGGTAACAGATCTGAATTCCTGATGTGAAAATACTGATTGCATTTATA
 AGCTACAAAGACTTTAGAGATATGAACCAGACTCTAGGAGATAACATTACTGTGAAAATGTATTCCAT
 CGTGGCCTAACTTTGATTATACTATGGTGGTATTTTTGTAATTGCGGTGTTCACTGTGGCATTAGTGG
 ATACTGGAGTGGACTAGTTGAATTGAAAACCTGAAAGCAGTGACAAGTGAAGATAGAGAAATGAGGAAA
 AAGAAGGAAGAATATTTAACTTTTAGTCCCTTACAGTTGAATATTTGTGGTCACTGTGTGTTATGA
 TGGTCTTACTTTATTTCTTACAAATGGTTGGTTTATGTTATGATAGCAATTTCTGCATAGCATCAGC
 AATGAGTCTGTACAAGTCTTGTCTGACTAATTCATAAGATACCATATGGACAATGCACGATTGCATGT
 CGTGGCAAAAACATGGAAGTGAGACTTATTTTTCTCTGGACTGTGCATAGCAGTAGCTGTTGTTGGG
 CTGTGTTTCGAAATGAAGACAGGTGGGCTTGGATTTACAGGATATCTTGGGGATTGCTTTCTGTCTGAA
 TTTAATTAACACTGAAGTTGCCAACCTCAAGTCATGTGTGATACTTCTAGGCCTTCTCTCTCTAT
 GATGATTTTTGTTTTCATAACACCATTCAATCACAAGAATGGTGAGAGTATCATGGTTGAACCTCGCAG
 CTGGACCTTTTGGAAATAATGAAAAGTTGCCAGTAGTCATCAGAGTACCAAACTGATCTATTTCTCAGT
 AATGAGTGTGTCCTCATGCCTGTTCAATATTGGGTTTTGGAGACATTATTGTACCAGGCTGTTGATT
 GCATACTGTAGAAGATTTGATGTTGACTGGTCTTCTTACATATACTATGTTTCGTCTACAGTTGCC
 ATGCTATTGGCATGATACTTACATTTGTTGTTCTGGTGTGATGAAAAGGGGCAACCTGCTCTCTCTA
 TTTAGTACCTTGACACTTATTACTGCCTCAGTTGTTGCCTGGAGACGTAAGGAAATGAAAAGTTCTGG
 AAAGGTAACAGCTATCAGATGATGGACCATTGGATTGTGCAACAATGAAGAAAACCTGTGATATCTG
 GTGAACAGATTGTCCAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206384 representing NM_032802
 Red=Cloning site Green=Tags(s)

MGPQRRLSPAGAALLWGFLLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSI SLMNLTST
 PLCNLSDI PPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVNNNSVLFPPSGNRSEFPDVKILIAFI
 SYKDFRDMNQTLGDNITVKMYSWPNFDYTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRK
 KKEEYLF SPLTVVIFVVICVMVLLYFFYKWL VYVMI AIFCIASMSLYNCLAAL IHKIPYGCQTIAC
 RGKNMEVRLIFLSGLCIAVAVVWVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLY
 DVFFVFITPFIKNGESIMVELAAGPFGNNEKLPVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLI
 AYCRRFDVQTGSSYIYYVSSTVAYAIGMILTFVVLVLMKKGQPALLYLPCTLITASVVAWRKEMKFKF
 KGNSYQMMDHLDCAATNEENPVISGEQIVQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8113_b10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032802

ORF Size: 1560 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_032802.4](#)

RefSeq Size: 2010 bp

RefSeq ORF: 1563 bp

Locus ID: 84888

UniProt ID: [Q8TCT8](#)

Cytogenetics: 15q21.2

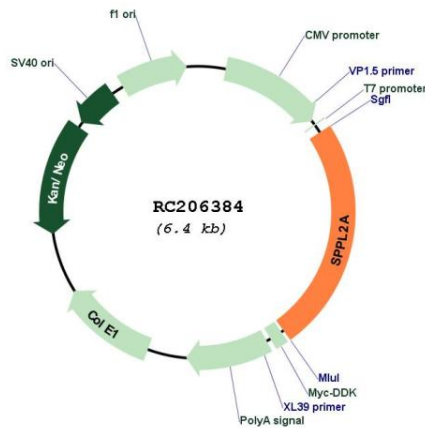
Domains: PA, PSN, DUF435

Protein Families: Protease, Transmembrane

MW: 58 kDa

Gene Summary: This gene encodes a member of the GXGD family of aspartic proteases, which are transmembrane proteins with two conserved catalytic motifs localized within the membrane-spanning regions, as well as a member of the signal peptide peptidase-like protease (SPPL) family. This protein is expressed in all major adult human tissues and localizes to late endosomal compartments and lysosomal membranes. A pseudogene of this gene also lies on chromosome 15. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC206384