

Product datasheet for **RC206134**

Signal peptide peptidase like 2B (SPPL2B) (NM_001077238) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Signal peptide peptidase like 2B (SPPL2B) (NM_001077238) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Signal peptide peptidase like 2B
Synonyms:	IMP-4; IMP4; PSH4; PSL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC206134 representing NM_001077238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCGGTGGCGCTGCGCTGGCGCGCTTTTGGCGCCTTTCTGCTCCTCGCGGCCAGGTGG
 CCTGTGAGTACGGCATGGTGCACGTGGTCTCCAGGCCGGGGCCCGAAGGCAAAGACTACTGCATCCT
 CTAACAACCCGAGTGGGCCATCTTCCGCACGACCTCAGCAAGGCATCTTTCCTGCACTGCGCAACTGG
 ACGGCCTCCCTGCTCTGCTCCGCAGCCGACCTCCCGCCCGTGGCTTTCAGCAACCAGATCCCGCTGGTGG
 CGCGGGGAACTGCACCTTCTATGAGAAAGTGAAGGCTGGCCAGGGCAGCGGAGCAGCGGGCTGCTCAT
 CGTCAGCAGGGAGAGGCTGGTCCCCCGGGGGTAATAAGACGCAGTATGATGAGATTGGCATTCCCGTG
 GCCCTGCTCAGCTACAAAGACATGCTGGACATCTTACGCGTTTCGGCCGACGGTGAAGGCGCGCTGT
 ATGCGCCTAAGGAGCCGGTGGTGGACTACAACATGGTCATCATCTTTCATCATGGCTGTGGCACCCTGCG
 CATCGCGGCTACTGGGCGGGAGTCGGGACGTGAAGAAAAGGTACATGAAGCACAAGCGCGACGATGGG
 CCCGAGAAGCAGGAGGACGAGGCGGTGGACGTGACGCCGGTATGACCTGCGTGTGGTGGTGTGCT
 GCTCCATGCTGGTGTGCTACTATTTCTACGATCTCCTCGTGTACGTGGTATCGGGATCTTCTGCCT
 GGCTCCGCCACCGGCTCTACAGCTGCCTGGCGCCTGTGTGCGGGCGGCTGCCCTTCGCAAGTGCAGG
 ATCCCCAACACAGCCTGCCCTACTTCCACAAGCGCCCGAGGCCGATGCTGCTCCTGGCGCTTCTT
 GCGTGGCCGTGAGCGTGGTGTGGGGCTTCCGCAACGAGGACCGAGTGGGCTGGGCTCCAGGATGC
 CCTGGGCATCGCCTTCTGCCTCTACATGCTGAAGACATCCGCTGCCCACCTTCAAGGCTGCACGCTG
 CTGCTGCTGGTGTGCTTCTCTACGACATCTTCTCGTGTTCATCAGCCCTTCTGACCAAGAGTGGGA
 GCAGCATCATGGTGGAGGTGGCCACTGGGCCCTGGACTCAGCCACCCGTGAGAAGCTGCCATGGTCTT
 GAAGGTGCCAGGCTGAACCTCTCACCTCTGGCCCTGTGTGACCGGCCCTTCTCCCTCTGGGTTTCGGA
 GACATTTTGGTGCAGGGCTGCTGGTGGCTACTGCCACAGGTTTACATCCAGGTACAGTCTCCAGGG
 TATACTTCGTGGCTGCACCATGCCTATGGCGTTGGCCTCCTTGTGACATTCTGGCACTGGCCCTGAT
 GCAGCGTGGCCAGCCGCTCTCTCTACCTGGTGGCCTGCACGCTGGTGCAGGCTGCGCTGTGGCGCTC
 TGGCGCCGGGAGTGGCGTGTCTGGACGGGACGCGCTTTCGGGTGAATACAGTTTGTCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206134 representing NM_001077238
 Red=Cloning site Green=Tags(s)

MAAAVAALARLLAAFLLLAAQVACEYGMVHVVSQAGGPEGKDYCILYNPQWAHLPHDLKASFLQLRNW
 TASLLCSAADLPARGFSNQIPLVARGNCTFYEKVRLAQSGARGLLIVSRERLVPPGNGKTQYDEIGIPV
 ALLSYKDMLDIFTRFGRTVRAALYAPKEPVL DYNMVIIFIMAVGTVAIGGYWAGSRDVKRYMKHKRDDG
 PEKQEDEAVDTPVMTFCVVMCCSMLVLLYYFYDLLVYVYVIGIFCLASATGLYSLAPCVRRLPFGKCR
 IPNNSLPYFHKRPQARMLLLALFCVAVSVVWGVFRNEDQWAWVLQDALGIAFLYMLKTI RLPFKACTL
 LLLVLFYDIFFVFIPTFLTKSGSSIMVEVATGPSDSATREKLPMLKVPRLNSSLALCDRPFSLLGFG
 DILVPGLLVAYCHRFDIQVSSRVYFVACTIAYGVGLLVTFVALALMQRGQPALLYLPCTLVTS CAVAL
 WRRELGVFWTGS GFVNTSLL

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8103_g06.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001077238

ORF Size: 1533 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

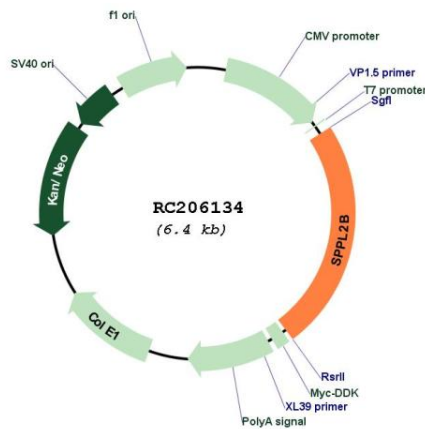
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001077238.2
RefSeq Size:	3832 bp
RefSeq ORF:	1536 bp
Locus ID:	56928
UniProt ID:	Q8TCT7
Cytogenetics:	19p13.3
Protein Families:	Protease, Transmembrane
MW:	56.4 kDa
Gene Summary:	This gene encodes a member of the GXGD family of aspartic proteases. The GXGD proteases are transmembrane proteins with two conserved catalytic motifs localized within the membrane-spanning regions. This enzyme localizes to endosomes, lysosomes, and the plasma membrane. It cleaves the transmembrane domain of tumor necrosis factor alpha to release the intracellular domain, which triggers cytokine expression in the innate and adaptive immunity pathways. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206134