

Product datasheet for **RC223590**

Signal peptide peptidase like 2B (SPPL2B) (NM_152988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Signal peptide peptidase like 2B (SPPL2B) (NM_152988) 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:

>RC223590 representing NM_152988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCAGCGGTGGCGGCTGCGCTGGCGCGGCTTTTGGCGGCCTTTCTGCTCCTCGCGGCCAGGTGG
 CCTGTGAGTACGGCATGGTGCACGTGGTCTCCAGGCCGGGGCCCGAAGGCAAAGACTACTGCATCCT
 CTACAACCCGAGTGGGCCATCTTCCGCACGACCTCAGCAAGGCATCTTTCCTGCAGCTGCGCAACTGG
 ACGGCCTCCCTGCTCTGCTCCGCAGCCGACCTCCCGCCCGTGGCTTCAGCAACCAGATCCCGTGGTGG
 CGCGGGGGAAGTGCACCTTCTATGAGAAAGTGAAGGCTGGCCAGGGCAGCGGAGCACGGGGCTGCTCAT
 CGTCAGCAGGGAGAGGCTGGTCCCCCGGGGGTAATAAGACGCAGTATGATGAGATTGGCATTCCCGTG
 GCCCTGCTCAGCTACAAAGACATGCTGGACATCTTACGCGTTTCGGCCGCACGGTGAGGGCGGCGCTGT
 ATGCGCCTAAGGAGCCGGTGGTGGACTACAACATGGTTCATCATTTTATCATGGCTGTGGGCACCGTCCG
 CATCGGGGCTACTGGGCCGGGAGTCCGGACGTGAAGAAAAGGTACATGAAGCACAAGCGCGACGATGGG
 CCCGAGAAGCAGGAGGACGAGCGGTGGACGTGACGCCGGTATGACCTGCGTGTGGTGGTGGTGGTGGT
 GCTCCATGCTGGT
 GGCTCCGCCACCGGCCTCTACAGTGCCTGGCGCCCTGTGTGGCGGCGTGGCCTTCGGCAAGTGCAGG
 ATCCCCAACACAGCCTGCCCTACTTCCACAAGCGCCCGCAGGCCCGTATGCTGCTCCTGGCGCTCTTCT
 GCGTGGCCGTACGCGTGGTGTGGGGGCTTCCGCAACGAGGACCAGTGGGCTGGGCTCCAGGATGC
 CCTGGGCATCGCCTTCTGCTCTACATGCTGAAGACATCCGTCTGCCACCTTCAAGGCTGCACGCTG
 CTGCTGCTGGT
 GCAGCATCATGGTGGAGGTGGCCACTGGGCCCTCGGACTCAGCCACCCGTGAGAAGCTGCCATGGTCTG
 GAAGGTGCCAGGCTGAACCTCCTCACCTCTGGCCCTGTGTGACCGGCCCTTCTCCTCCTGGGTTTCGGA
 GACATTTTGGTGGCAGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 TATACTTCGTGGCCTGCACCATCGCCTATGGCGTTGGCCTCCTTGTGACATTCGTGGCACTGGCCCTGAT
 GCAGCGTGGCCAGCCGCTCTCCTCTACCTGGTGGCCTGCACGCTGGTGGCAGCTGGCCTGTGGCGCTC
 TGGCGCCGGGAGCTGGGCGTGTCTGGACGGCAGCGGCTTTCGAAAGTCTACCTCCATCTCCGTGGG
 CCCCAGCACCAGCCGACGGCCCGCAGCCTCCCAAAGACTCTGCCACGCCACTCTCCCGCAGCCGCCAG
 CGAAGAACCAGCCACATCCCCCTGGCCTGCTGAGCAGTCCCCAAAATCACGCACGTCCGAGGAGATGGGG
 GCTGGAGCCCCATGCGGGAGCCTGGGAGCCAGCTGAATCCGAGGGCCGGGACCAGGCCAGCCGTCC
 CGGTAACCCAGCCTGGCGCTCGCC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

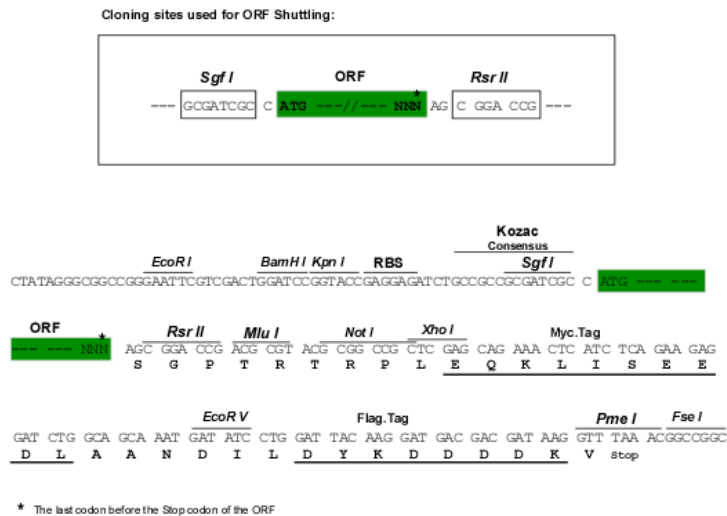
>RC223590 representing NM_152988
 Red=Cloning site Green=Tags(s)

MAAAVAALARLLAAFLLLAAQVACEYGMVHVVSQAGGPEGKDYCILYNPQWAHLPHDLSKASFLQLRNW
 TASLLCSAADLPARGFSNQIPLVARGNCTFYEKVRLAQGSGARGLLIVSRERLVPPGGNKTQYDEIGIPV
 ALLSYKDMLDIFTRFGRTVRAALYAPKEPVL DYNMVIIFIMAVGTVAIGGYWAGSRDVKKRYMKHKRDDG
 PEKQEDEAVDVTVMTCV FVMCCSMLVLLYYFYDLLVYVVIGIFCLASATGLYSCLAPCVRRLPFGKCR
 IPNNSLPYFHKRPQARMLLLALFCVAVSVVWGVFRNEDQWAWVLQDALGIAFCLYMLKTI RLPFTFKACTL
 LLLVLFYDIFVFITPFLTKSGSSIMVEVATGPSDSATREKLPMLKVPRLNSSLALCDRPFSLLGFG
 DILVPGLLVAYCHRFDIQVQSSRVYFVACTIAYGVGLLVTFVALALMQRGQPALLYLVPCTLVTS CAVAL
 WRRELGVFWTGSFAKVLPPSPWAPADGPQPPKDSATPLSPQPPSEEPATSPWPAEQSPKSR TSEEMG
 AGAPMREPGSPA ESEGRDQAQSPVTQPGASA

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_152988

ORF Size: 1776 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_152988.1](#), [NP_694533.1](#)

RefSeq Size: 2557 bp

RefSeq ORF: 1779 bp

Locus ID: 56928

UniProt ID: [Q8TCT7](#)

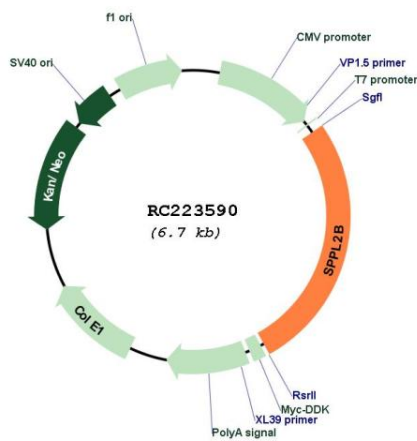
Cytogenetics: 19p13.3

Protein Families: Protease, Transmembrane

MW: 64.5 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 RC223590