

Product datasheet for **RN203112**

Sppl2b (NM_001014200) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sppl2b (NM_001014200) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sppl2b
Synonyms:	RGD1308556
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN203112 representing NM_001014200
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGCGGGCTGGCCGCATCCCTGCTGCTACTCGCGGCCAGGTGGCCTGTGAGTTCGGTGTAC
 TGCAGATTGTGCCCAAAGCGGTGGGACCCGGGCAGGGACTACTGCATCCTTTACAACCCACAGTGGC
 CCACTTGCCATGACCTCAACAAGTGTCTTCTGAAGCTTCGAGACTTGAGCACGACTCAGCTCTGT
 TCCACCTCGATGTTCTGTAGAAGACTTCACCAACCAGATCGCACTGGTGGCTCGGGGCAACTGTACCT
 TCTATGAGAAAGTGGCGTGGCCAGGGCAGTGGGCACATGGGCTGCTGATAGTCAGCAAGGAGAGACT
 GGTCCCTCAAGAGGCAACAAGACAGTATGAGGAGATAAGCATCCCTGTGGCCCTGCTAAGCCACAGG
 GACCTTCAAGACATCTTCAGGCGCTTTGGCCACGAGGTAATGGTAGCCCTGTATGCTCCGAGCGAGCCAG
 TGATGGACTACAACATGGTCATCATCTTCATCATGGCCGTGGGCACCGTCCCTTGGTGGCTACTGGC
 TGGCAGTCATGATGTGAAGAAGTACATGAAGCATAAGCGAGACGACGTCCTGAGAAGCAGGAGGATGAG
 GCGGTGGACGTGACGCCGGTTCATGATCTGCGTGTGGTGTGCTGCTTTCATGCTTGTGCTCTCT
 ACTACTTCTATGACCGCTTGGTCTACGTGATCATTGGGATCTTCTGCCTGGCCTCCTACCGGCCCTCA
 CAGCTGCCTGGCACCCCTGTGTGCGCAAGCTGCCCTTCTGCACGTGCAGGGTCCCCGACAACAACCTGCCG
 TACTTCCACAAGCGTCCACAGGCCCGCATGCTGCTGCTGGCCCTCTTCTGTGCTACTGTCTCCGTGGTGT
 GGGGTGTCTTCCGTAATGAGGACCAGTGGGCATGGGTCTGCAGGACACCTGGGCATTGCCTTCTGCCT
 GTACATGCTGAGGACCATTCGCCTGCCACCTTCAAGGCCTGCACACTGCTGCTGCTGGTGTCTTCTGTC
 TACGACATCTTCTCGTCTTCATCACCCCTACCTGACCAAGAGCGGCAACAGCATCATGGTGGAGGTGG
 CCACTGGGCCCTCGAATCATCCACCCATGAGAAGCTGCCATGGTGTGCTGAAGGTGCCAGGCTGAACAC
 CTCGCCTCTCCCTGTGTGACCGGCCCTTCTCCCTTCTGGGCTTTGGAGACATCTTGGTGCCAGGGCTG
 CTGGTGGCCTACTGCCACAGTTTGATATCCAGGTGCAGTCTCCAGGATTTACTTTGTGGCCTGCACCA
 TTGCCTATGGCCTGGCCTCCTGGTGACCTTCGTGGCTCTCGTCTCATGCGACATGGCCAGCCTGCACT
 CCTCTACTTGGTCCCCTGCACACTGCTGACCAGCTGCACCGTGGCTCTGTGGCGCCGGGAGATGGGCGCC
 TTCTGGACGGGCAGCGGTTTTGCGGATGCACCTCAGACCCCGTGGGCTGCACCCAGGGACCTGTGCCTC
 CGAAGGATGTGGATGCCTCTCTCTCGGAGCAGCCTCGGGGTGAAGAGCTGGCCCAGAGCCCCCTGGCCAC
 TGAGGAGGCAGGACCCACAGACCCTGCCAAGGATCCTGACAGCCCTGTGGCCGGTCCCTCAGCCCTCA
 AATGGGGACCAAGTCCAGCCTATACCTGTGGTGAACCCAGGGACCTCGGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001014200

Insert Size: 1734 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:

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_001014200.1](#), [NP_001014222.1](#)

RefSeq Size: 2887 bp

RefSeq ORF: 1734 bp

Locus ID: 362828

UniProt ID: [Q5PQL3](#)

Cytogenetics: 7q11

Gene Summary: Intramembrane-cleaving aspartic protease (I-CLiP) that cleaves type II membrane signal peptides in the hydrophobic plane of the membrane. Functions in ITM2B and TNF processing. Catalyzes the intramembrane cleavage of the anchored fragment of shed TNF-alpha (TNF), which promotes the release of the intracellular domain (ICD) for signaling to the nucleus. May play a role in the regulation of innate and adaptive immunity.[UniProtKB/Swiss-Prot Function]