

Product datasheet for **MR217620**

Sppl2a (NM_023220) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sppl2a (NM_023220) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sppl2a
Synonyms:	2010106G01Rik; C130089K23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217620 representing NM_023220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGCTGCACTCGCTGCACGCTCCCGCGGCTGCCCTGCTCGAGCTGCCTGCTCGGACTGGCAG
 CTGCTCAGGAAGCATTCTGCATGCGTCTACAAATGGCGTGTCTTCACTTCCAAGGACTACTGCATGTA
 TTATAACAACAACACTGGACACGACTTCCAAGTCCCTAGAAAATGCAACTTCTCTGAGCTTATGAATCTG
 ACGGGCACAGCACTGTGCCACCTTTCTGATATTCTCCTGATGGCATAAGGAACAAGGCAGTGGTGGTGC
 ACTGGGGACCCTGCCATTTCTGAAAAAGCCAGAATTGCACAGGAAGGTGGTGCAGCATTGCTGAT
 TGCCAACAACAGTGTCTAATTCCTTCTCAAGGAACAAATCTACATTTCAAATGTGACTGTACTAATT
 GCAGTTATAACCCAAAAAGACTTCAAAGACATGAAAGAGACTCTGGAGATGACATTACCGTGAAAAATGT
 ATCCCCATCCTGGCCTAACTTTGACTATACTCTGGTGGTTATTTTTGTAATTGCTGTGTTCACTGTGGC
 CTTAGGAGGATACTGGAGTGGACTTATTGAATTGGAACATGAAGTCAGTGGAAGACGCAGAAGACAGA
 GAGACAAGAAAAAGAAGGACGATTACTTAACATTCAGTCCTCTCACGGTTGTTGTGTTCTGGTCACT
 GCTGTATAATGATTGTCTTACTGTATTTCTTCTACAGGTGGCTTGTGTATGTTATGATAGCGATTTCTG
 CATAGCATCGTCAATGAGCCTGTACAAGTGTCTTCTGCAATTGATTCATAGGATGCCATGTGGACAGTGC
 ACGATTTTGTGTTGTGGCAAAAACATTAAGTGAAGCCTGATTTTCTTTCCGGGCTGTGCATCTCAGTTG
 CTGTTGTGTGGGCTGATTTTCGAAATGAGGATAGGTGGGCTTGGATTTTACAGGATATCTTAGGAATTGC
 TTTCTGTCTCACTTAATTAACAATGAAGTTACCAATTTTATGTCATGCGTGATACTGCTAGGCCTT
 CTTCTCATCTACGATGTGTTCTTTGCTTTCATCACACCTTTTATCACAAGAATGGTGGAGCAGTATGG
 TGAACCTGCTGCTGGCCTTTTCGAGAATGCTGAAAAGTTGCCAGTATGATCAGGGTGCCAAAACATGAT
 GGGTTACTCAGTCATGAGTGTATGCTCCGTCCTGTTTTCAGTATTGGGTTTCGGAGATATCATTGTACCA
 GGCTGTTGATTGCATATTGTAGAAGATTCGATGTTTCAGACTGGTCTTCTATATACTATATTTTATCCA
 CAATTGCCTATGCTGTTGGCATGATCATTACCTTTGTTGTCTGATGGTGTGAAAACAGGGCAGCCTGC
 TCTCTACTTGGTACCTTGTACACTTATTACTGTCTCAGTCGTTGCTTGGAGTCGTAAGGAAATGAAA
 AAGTTCTGGAAGGCAGCAGCTATCAGGTGATGGACCCTGGACTATTCACAAATGAAGAAAATCCAG
 TGACGACTGATGAGCAGATTGTACAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217620 representing NM_023220
 Red=Cloning site Green=Tags(s)

MGLLHSLHAPAAALLWSCLLGLAAAQEAILHASTNGVSSLKDYCMYNNWTRLPSSLENATSLSLMNL
 TGTALCHLSDIPPDGIRNKAVVVHWGPCHFLEKARIAQEGGAAALLIANNVSVLIPSSRNKSTFQNVTVLI
 AVITQKDFKMKETLGDITVKMYSWPNFDYTLVVFVIAVFTVALGGYWSGLIELENMKSVEDAEDR
 ETRKKDDYLFVPLTVVVFVVICIMIVLLYFFYRWLVYVMIAIFCIASSMSLYNCLSAIHRMPCGQC
 TILCCGKNIKVSLIFLSGLCISVAVVWAVFRNEDRWAWILQDILGIAFCLNLIKTMKLPNFMSCVILLGL
 LLIYDVFVVFITPFITKNGESIMVELAAGPFENAELPVVIRVPKLMGYSVMSVCSVPVSVLGFVDIIVP
 GLLIAYCRRFDVQTGSSIIYISSTIAYAVGMIITFVFLMVMKGTQPALLYLPVCTLITVSVVAWSRKEMK
 KFWKGSYQVMDHLDYSTNEENPVTTDEQIVQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_h09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_023220

ORF Size: 1569 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_023220.2](#), [NP_075709.2](#)

RefSeq Size: 5629 bp

RefSeq ORF: 1572 bp

Locus ID: 66552

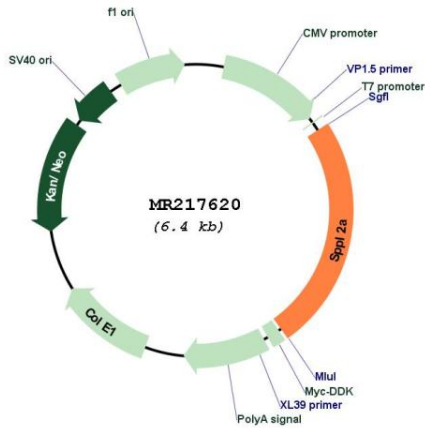
UniProt ID: [Q9JIF9](#)

Cytogenetics: 2 F1

MW: 58.6 kDa

Gene Summary: Intramembrane-cleaving aspartic protease (I-CLiP) that cleaves type II membrane signal peptides in the hydrophobic plane of the membrane. Functions in FASLG, 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. Also responsible for the intramembrane cleavage of Fas antigen ligand FASLG, which promotes the release of the intracellular FasL domain (FasL ICD). May play a role in the regulation of innate and adaptive immunity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217620