

Product datasheet for **MG217620**

Sppl2a (NM_023220) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sppl2a (NM_023220) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sppl2a
Synonyms:	2010106G01Rik; C130089K23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG217620 representing NM_023220
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCTGCTGCACTCGCTGCACGCTCCCGCGGCTGCCCTGCTCGAGCTGCCTGCTCGGACTGGCAG
 CTGCTCAGGAAGCCATTCTGCATGCGTCTACAAATGGCGTGTCTTCACTTTCCAAGGACTACTGCATGTA
 TTATAACAACAACACTGGACACGACTTCCAAGTCCCTAGAAAATGCAACTTCTCTGAGCTTATGAATCTG
 ACGGGCACAGCACTGTGCCACCTTTCTGATATTCTCCTGATGGCATAAGGAACAAGGCAGTGGTGGTGC
 ACTGGGGACCCTGCCATTTTCTGAAAAAGCCAGAATTGCACAGGAAGGTGGTGCAGCATTGCTGAT
 TGCCAACAACAGTGTCTAATTCCTTCTCAAGGAACAAATCTACATTTCAAATGTGACTGTACTAATT
 GCAGTTATAACCCAAAAAGACTTCAAAGACATGAAAGAGACTCTGGAGATGACATTACCGTGAAAATGT
 ATCCCCATCCTGGCCTAACTTTGACTACTCTGGTGGTTATTTTTGTAATTGCTGTGTTCACTGTGGC
 CTTAGGAGGATACTGGAGTGGACTTATTGAATTGGAAAACATGAAGTCAGTGGAAGACGCAGAAGACAGA
 GAGACAAGAAAAAGAAGGACGATTACTTAACATTCAGTCCTCTCACGGTTGTTGTGTTCTGGTCACT
 GCTGTATAATGATTGTCTTACTGTATTTCTTCTACAGGTGGCTTGTGTATGTTATGATAGCGATTTTCTG
 CATAGCATCGTCAATGAGCCTGTACAAGTGTCTTTCTGCATTGATTCATAGGATGCCATGTGGACAGTGC
 ACGATTTTGTGTTGTGGCAAAAACATTAAGTGGAGCCTGATTTTCTTTCCGGGCTGTGCATCTCAGTTG
 CTGTTGTGTGGGCTGATTTTCGAAATGAGGATAGGTGGGCTTGGATTTTACAGGATATCTTAGGAATTGC
 TTTCTGTCTCACTTAATTAACAATGAAGTTACCCAATTTTATGTCATGCGTGATACTGCTAGGCCTT
 CTTCTCATCTACGATGTGTTCTTTGTCTTACACACCTTTTATCACAAGAATGGTGGAGCAGTGGTGG
 TGGAACTTGCTGCTGGGCTTTTCGAGAATGCTGAAAAGTTGCCAGTAGTTATCAGGGTGCCAAAATGAT
 GGGTTACTCAGTCATGAGTGTATGCTCCGTGCCTGTTTCAGTATTGGGTTTCGGAGATATCATTGTACCA
 GGCTGTTGATTGCATATTGTAGAAGATTCGATGTTTCCAGACTGGTCTTCTATATACTATATTTTATCCA
 CAATTGCCTATGCTGTTGGCATGATCATTACCTTTGTTGTCTGATGGTGTGAAAACAGGGCAGCCTGC
 TCTCTACTTGGTACCTTGTACACTTATTACTGTCTCAGTCGTTGCTTGGAGTCGTAAGGAAATGAAA
 AAGTTCTGAAAGGCAGCAGCTATCAGGTGATGGACCCTGGACTATTCACAAATGAAGAAAATCCAG
 TGACGACTGATGAGCAGATTGTACAACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217620 representing NM_023220
 Red=Cloning site Green=Tags(s)

MGLLHSLHAPAAALLWSCLLGLAAAQEAILHASTNGVSSL SKDYCMYNNWTRLPSSLENATSLSLMNL
 TGTALCHLSDIPPDGIRNKAVVVHWGPCHFLEKARIAQEGGAAALLIANNVLIIPSSRNKSTFQNVTVLI
 AVITQKDFKMKETLGDITVKMYSWPNFDYTLVVIFVIAVFTVALGGYWSGLIELENMKSVEDAEDR
 ETRKKKDDYLTFSPLTVVVFVVICIMIVLLYFFYRWLVYVMI AIFCIASSMSLYNCLSALIHRMPCGQC
 TILCCGKNIKVSLIFLSGLCISVAVVWAVFRNEDRWAWILQDILGIAFCLNLIKTMKLPNFMSCVILLGL
 LL IYDVFVFITPFITKNGESIMVELAAGPFENAELPVVIRVPKLMGYSVMSVCSVPVSVLGFGDIIIVP
 GLLIAYCRRFDVQTGSSIIYISSTIAYAVGMIITFVVLMMKMGQPALLYLPCTLITVSVVAWSRKEMK
 KFWKGSYQVMDHLDYSTNEENPVTTDEQIVQQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	Q9JFF9
Cytogenetics:	2 F1
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]