

## Product datasheet for **RR207354**

### **Sppl2a (NM\_001107770) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sppl2a (NM_001107770) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sppl2a
Synonyms:	RGD1563001
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR207354 representing NM\_001107770  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGTTGCTGCACTCGCTGCACGCTCCCGCTGCTGCCCTGCTGTGGAGCTGCCTGCTCGGACTGTCAG  
 CTGCTCAGGAAGCCATCCTTCATGCATCTGCAAATGGCGTATCTTCACTTCCAAGGACTACTGCATGTA  
 TTATAACAACAACACTGGACACGGCTTCCAAGTCCCTAGAAAATGCAACTTCTCTTAGCTTGATGAATCTG  
 ACTGGCACACCACTGTGCCACCTTTCTGATATTCTCCTGATGGCATAAAGAACAAGGCAGTGGTGGTAC  
 ACTGGGGACCCTGCCATTTCTTGAAAAAGCCAAAATTGCACAGGAAGGTGGTGTGCAGCGTTGCTGAT  
 TGCCAACAACAGTGTCTAATTCCTTCTCAAGGAACAAATCTGCATTTCAAATGTGACTATACTAATT  
 GCAGTTATAACCCAAAAAGACTTAAATGATATGAAAGAGACTCTGGAGATGACATTACCGTGAAAATGT  
 ATTCTCCATCCTGGCCTAACTTTGACTATACTCTGGTGGTCATTTTTGTAATTGCTGTGTTCACTGTGGC  
 ATTAGGAGGATACTGGAGTGGACTTATTGAATTGAAAGCATGAAGGCAGTGAAGATGCTGAAGATAGA  
 GAGGCAAGGAAAAAGAAGGAAGACTACTAACATTCAGTCCTCTCACCGTTGTCCTGTTGCTGGTCACT  
 GCTGTGTAATGATTGTCTTACTGTATTTCTTCTACAAGTGGCTGTTTATGTTATGATAGCAATTTCTG  
 CATAGCATCAGCAACGAGCTTGTATAACTGTCTCGCTGCATTGATTCATCGGATGCCATGTGGACAGTGC  
 ACGATTTTGTGTTGTGGCAAAAACATTAAGTGTGAGCCTGATTTTCTTTCTGGACTGTGCATCTCAGTTG  
 CTGTTGTGTGGGCTGTGTTTCGAAATGAGGACAGGTGGGCTTGGATTTTACAGGATATCTTAGGAATTGC  
 TTTCTGTCTCACTTAATTAACAATGAAGTTACCCAATTTTATGTCATGTGTGATACTGCTAGGCTT  
 CTCCTCATCTACGACGTGTTCTTTGTCTTACATAACACCATTATCACAAGAATGGAGAGAGCATCATGG  
 TGAACCTTGCTGCTGGCCTTTGAGAATGCTGAAAAGTTGCCAGTAGTTATCAGGGTGCCAAAGTCAT  
 GGATTACTCAGTCATGAGTGTGTGCTCAGTGCCGGTTTTCAGTGCTGGGGTTCGGAGATATCATTGTTCCA  
 GGTCTGTTGATTGCATATTGTAGAAGATTTGATGTTTCACTGGTCTTCTATATACTATATATCATCTA  
 CAATTGCCTATGCTGTTGGCATGATAATTACCTTTGTGGTCTAATGGTATGAAGACAGGACAGCCTGC  
 TCTCTCTATTTAGTACCTTGTACACTTATTACTGCCTCAATCGTTGCTTGGAGTCGTAAGGAAATGAAA  
 AAGTTCTGAAAGGTAGCAGCTACCAGGTGATGGACTACCTGGACTATTCACAAATGAAGAAAACCCAG  
 CAGCTACTGACGACGAGATTGTACAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207354 representing NM\_001107770  
 Red=Cloning site Green=Tags(s)

MGLLHSLHAPAAALLWSCLLGLSAAQEAILHASANGVSSLSKDYCMYNNWTRLPSLENATSLSLMNL  
 TGTPPLCHLSDIPPDIKNAVVVHWGPCHFLEKAKIAQEGGAAALLIANNVLIIPSSRNKSAFQNVITLI  
 AVITQKDFNDMKETLGDITVKMYSWPNFDYTLVVIFVIAVFTVALGGYWSGLIELESMKAVEDAEDR  
 EARKKKEDYLTFSPLTVVLFVVICVMIVLLYFFYKWL VYVMIAIFCIASATSLYNCLAAL IHRMPCGQC  
 TILCCGKNIKVSLIFLSGLCISVAVVWAVFRNEDRWAWILQDILGIAFCLNLIKTMKLPNFMSCVILLGL  
 LLIYDVFVFIPTFITKNGESIMVELAAGPFENAELPVVIRVPKLMDSVMSVCSVPVSVLFGFDIIVP  
 GLLIAYCRRFDVQTGSSIIYISSTIAYAVGMIITFVVLMMVMTGQPALLYLPCTLITASIVAWSRKEMK  
 KFWKGGSSYQVMDYLDYSTNEENPAATDEQIVQQ

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

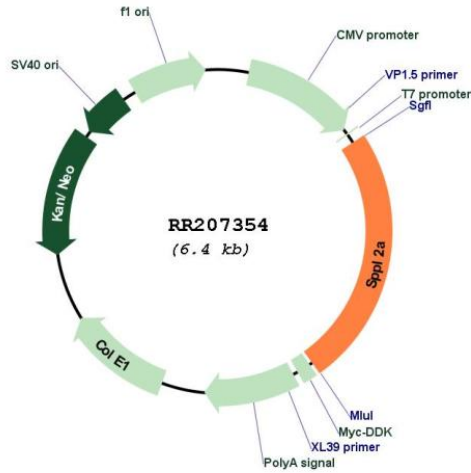
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001107770
<b>ORF Size:</b>	1569 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001107770.1</a> , <a href="#">NP_001101240.1</a>
<b>RefSeq Size:</b>	2173 bp
<b>RefSeq ORF:</b>	1572 bp
<b>Locus ID:</b>	311401
<b>Cytogenetics:</b>	3q36
<b>MW:</b>	57.9 kDa