

Product datasheet for **MR205992**

Sppl3 (NM_029012) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sppl3 (NM_029012) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sppl3
Synonyms:	4833416I09Rik; Psl4; Usmg3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205992 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAACAGACCTATTCGTGGGCTATTCCTGGTGGACTCCAGTCAAGTGTGACATTTCTGATAT
CCATTCTTCTTATAGTCTATGGTAGTTTCAGGTCTCTTAATATGGACTTTGAAAACCAAGATAAGGAGAA
AGACAGCAACAGTTCTTCTGGCTCTTTCAATGGCAACAGCACCAATAACAGCATCCAGACCATTGATTCC
ACCAAGCACTGTTCTCCCGATTGGAGCGTCTGTCTCTCCTCGTCATGTTCTTCTTTGATTGATCAG
TTCAAGTCGTTTTACAATATGTACAGCAGTTCTTGCAACAATAGCTTTTGCTTTTCTTCTCTCCCGAT
GTGCCAGTATTTAACAAGGCCCTGCTCACCTCAGAACAAAGATTTCTTCGGTTGCTGTGGGCGTTTCACT
GCTGCCGAGCTGCTGCTGTTCTCCCTGTCTGTCATGCTCGTCCTCATCTGGGTTCTCACTGGCCACTGGC
TTCTCATGGATGCTCTGGCCATGGGTCTCTGTGTTGCCATGATCGCCTTCGTCCGCCTGCCAAGCCTCAA
GGTTTCTGCCTGCTTCTCTCAGGGCTTCTCATCTACGATGTCTTCTGGGTGTTCTTCTCAGCCTACATC
TTCAACAGTAATGTCATGGTGAAAGTGGCCACACAGCCAGCTGACAATCCCTCGACGTTCTGTCCAGGA
AGCTCCACCTGGGACCAATGTGGGCGTGATGTTCTCGCCTGTCTTTGCCTGGAAAATTGGTCTTCCC
AAGCTCCACTGGCAGTCACTTCTATGCTGGGCATCGGGGACATTGTGATGCCCGGCCCTCTGTTATGC
TTTGTCTTCGCTATGACAACTACAAGAAACAAGCCAGTGGTGACTCGTGTGGGGCCCTGGCCAGCCA
ATATCTCTGGGCGCATGCAGAAGGTCTCTACTTCCACTGCACCCTCATCGGGTACTTTGTAGGTCTGCT
CACTGCGACTGTGGCGTCTCGCATCCACCGAGCTGCCAGCCAGCTCTCTCTACTTGGTGCCATTATACC
CTATTGCCACTCCTACCATGGCTACCTAAAGGGTGACTTACGGAGGATGTGGTCTCAGCCCTTCACT
CCAAGTCCAGCAGCTCCCGTTCTGGAAGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205992 protein sequence
 Red=Cloning site Green=Tags(s)

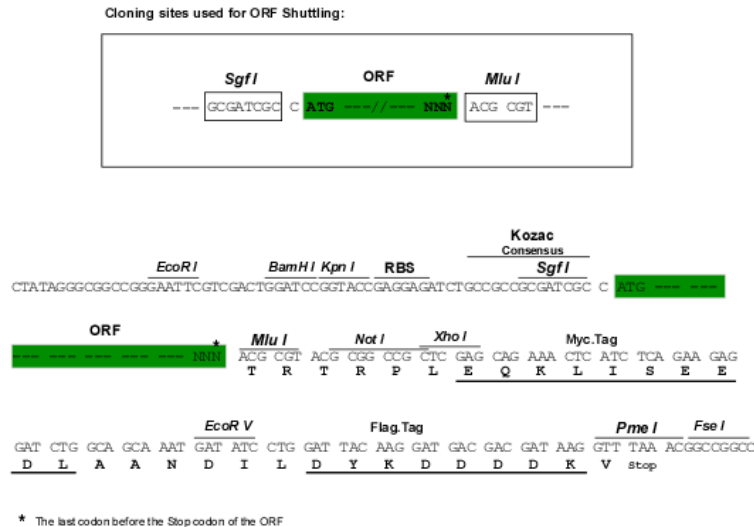
MAEQTYSWAYSLVDSSQVSTFLISILLIVYGSFRSLNMDFENQDKEKDSNSSSGSFNGNSTNNSIQTIDS
 TQALFLPIGASVLLVMFFFFDSVQVFTICTAVLATIAFAFLLLPQCQLTRPCSPQNKISFGCCGRFT
 AAELLSFSLSVMLVLIWVLTGHWLLMDALAMGLCVAMIAFVRLPSLKVSCLLSGLLIYDVFWVFFSAYI
 FNSNVMVKVATQPADNPLDVL SRKLHLGPNVGRDVPRLSLPGKLVFSSSTGSHFSMLGIGDIVMPGLLLC
 FVLRDNYKKQASGDSGAPGANISGRMQKVSFHFCTLIGYFVGLLTATVASRIHRAAQPALLYLPFT
 LLPLLT MAYLKGDLRRMWSQPFHSKSSSRFLEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_029012

ORF Size: 1152 bp

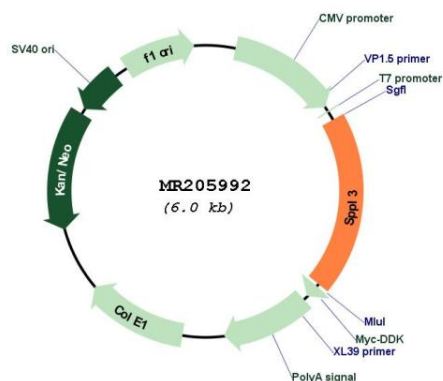
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_029012.2, NP_083288.2</u>
RefSeq Size:	2817 bp
RefSeq ORF:	1155 bp
Locus ID:	74585
UniProt ID:	<u>Q9CUS9</u>
Cytogenetics:	5 F
MW:	42.3 kDa
Gene Summary:	Intramembrane-cleaving aspartic protease (I-CLiP) that cleaves type II membrane protein substrates in or close to their luminal transmembrane domain boundaries. Acts like a sheddase by mediating the proteolytic release and secretion of active site-containing ectodomains of glycan-modifying glycosidase and glycosyltransferase enzymes such as MGAT5, B4GAT1 and B4GALT1 (PubMed:25354954, PubMed:25827571). Plays a role in the regulation of cellular glycosylation processes (PubMed:25354954). Required to link T-cell antigen receptor (TCR) and calcineurin-NFAT signaling cascades in lymphocytes by promoting the association of STIM1 and ORAI1 during store-operated calcium entry (SOCE) in a protease-independent manner (PubMed:25384971).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205992