

Product datasheet for **MG205992**

Sppl3 (NM_029012) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sppl3 (NM_029012) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sppl3
Synonyms:	4833416I09Rik; Psl4; Usmg3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205992 representing NM_029012 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAACAGACCTATTCGTGGGCTATTCCCTGGTGGACTCCAGTCAAGTGTGACATTTCTGATAT
CCATTCTTCTTATAGTCTATGGTAGTTTCAGGTCTCTTAATATGGACTTTGAAAACCAAGATAAGGAGAA
AGACAGCAACAGTTCTTCTGGCTCTTTCAATGGCAACAGCACCAATAACAGCATCCAGACCATTGATTCC
ACCCAAGCACTGTTCTCCCGATTGGAGCGTCTGTCTCTCCTCGTCATGTTCTTCTTTGATTGATCAG
TTCAAGTCGTTTTCACAATATGTACAGCAGTTCTTGCAACAATAGCTTTTGCTTTTCTTCTCTCCCGAT
GTGCCAGTATTTAAAGGCCCTGCTCACCTCAGAACAAAGATTTCTTCGGTTGCTGTGGGCGTTTCACT
GCTGCCGAGCTGCTGTCGTTCTCCCTGTCTGTCATGCTCGTCCATCTGGGTTCTCACTGGCCACTGGC
TTCTCATGGATGCTCTGGCCATGGGTCTCTGTGTTGCCATGATCGCCTTCGTCCGCTGCCAAGCCTCAA
GGTTTCTGCCTGCTTCTCTCAGGGCTTCTCATCTACGATGTCTTCTGGGTGTTCTTCTCAGCCTACATC
TTCAACAGTAATGTCATGGTAAAGTGGCCACACAGCCAGCTGACAATCCCCTCGACGTTCTGTCCAGGA
AGCTCCACTGGGACCAATGTGGGCGTGATGTTCTCGCTGTCTTGGCTGGAAAATGGTCTTCCC
TTTGTCTTCGCTATGACAACACTACAAGAACAAGCCAGTGGTACTCGTGTGGGCCCCGCCCCAGCCA
ATATCTCTGGGCGCATGCAAGGTCTCTACTTCCACTGCACCCTCATCGGGTACTTTGTAGGCTGTGCT
CACTGCGACTGTGGCGTCTCGCATCCACCGAGCTGCCAGCCAGCTCTCCTACTTGGTGCCATTTACC
CTATTGCCACTCCTACCATGGCCTACCTAAAGGGTGACTTACGGAGGATGTGGTCTCAGCCCTTCCACT
CCAAGTCCAGCAGCTCCCGTTCCTGGAAGTA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205992 representing NM_029012
 Red=Cloning site Green=Tags(s)

MAEQTYSWAYSLVDSSQVSTFLISILLIYVGSFRSLNMDFENQDKEKDSNSSSGSFNGNSTNNSIQTIDS
 TQALFLPIGASVLLVMFFFFDSVQVFTICTAVLATIAFAFLLLLPMCQYLTRPCSPQNKISFGCCGRFT
 AAELLSFSLSVMLVLIWVLTGHWLLMDALAMGLCVAMIAFVRLPSLKVSCLLLSGLLIYDVFVWVFFSAYI
 FNSNVMVKVATQPADNPLDVL SRKLHLGPNVGRDVPRLSLPGKLVFSSSTGSHFSMLGIGDIVMPGLLLC
 FVLRDNYKKQASGDSCGAPGPANISGRMQKVSYPFHCTLIGYFVGLLTATVASRIHRAAQPALLYLVPFT
 LLPLLT MAYLKGDLRRMWSQPFHSKSSSRFLEV

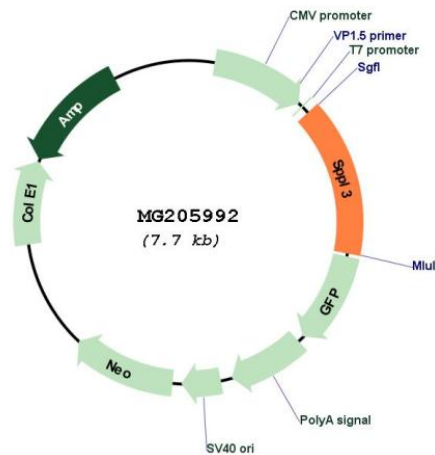
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_029012.2 , NP_083288.2
RefSeq Size:	2817 bp
RefSeq ORF:	1155 bp
Locus ID:	74585
UniProt ID:	Q9CUS9
Cytogenetics:	5 F
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]