

Product datasheet for MC207744

Sppl3 (NM_029012) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Sppl3 (NM_029012) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Sppl3
 Synonyms: 4833416I09Rik; Psl4; Usmg3
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC207744 representing NM_029012
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCGGAACAGACCTATTCGTGGGCCTATTCCCTGGTGGACTCCAGTCAAGTGTGACATTTCTGATAT
 CCATTCTTCTTATAGTCTATGGTAGTTTCAGGTCTCTTAATATGGACTTTGAAAACCAAGATAAGGAGAA
 AGACAGCAACAGTCTTCTGGCTCTTTCAATGGCAACAGCACCAATAACAGCATCCAGACCATTGATTCC
 ACCCAAGCACTGTTCTCCCGATTGGAGCGTCTGTCTCTCCTCGTCATGTTCTTCTTTGATTTCAG
 TTCAAGTCGTTTTCACAATATGTACAGCAGTCTTGAACAATAGCTTTTGCTTTTCTTCTCTCCCGAT
 GTGCCAGTATTTAACAAGGCCCTGCTCACCTCAGAACAAGATTTCCCTCGGTTGCTGTGGGGCTTCACT
 GCTGCCGAGCTGCTGTCGTTCTCCCTGTCTGTCATGCTCGTCCTCATCTGGGTTCTCACTGGCCACTGGC
 TTCTCATGGATGCTCTGGCCATGGGTCTCTGTGTTGCCATGATCGCCTTCGTCCGCTGCCAAGCCTCAA
 GGTTTCTGCCTGCTTCTCTCAGGGCTTCTCATCTACGATGTCTTCTGGGTGTTCTTCTCAGCCTACATC
 TTCAACAGTAATGTCATGGTAAAAGTGGCCACACAGCCAGTGACAATCCCCTCGAGTTCTGTCCAGGA
 AGCTCCACTGGGACCAATGTGGGGCTGATGTTCTCGCTGTCTTTGCTGGAAAATGGTCTTCCC
 AAGCTCCACTGGCAGTCACTTCTCTATGCTGGGATCGGGGACATTGTGATGCCCGCCTCTGTTATGC
 TTTGTTCTTCGCTATGACAACACAAGAAACAAGCCAGTGGTACTCGTGTGGGGCCCTGGCCAGCCA
 ATATCTCTGGGCGCATGCAGAAGGTCTCTACTTCCACTGCACCCTCATCGGGTACTTTGTAGGTCTGCT
 CACTGCGACTGTGGCTCTCGCATCCACCAGCTGCCAGCCAGCTCTCTCTACTTGGTGCATTTACC
 CTATTGCCACTCCTACCATGGCTACCTAAAGGGTGACTTACGGAGGATGTGGTCTGAGCCCTTCCACT
 CCAAGTCCAGCAGCTCCCGTTCCTGGAAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_029012
Insert Size:	1155 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_029012.2</u> , <u>NP_083288.2</u>
RefSeq Size:	2817 bp
RefSeq ORF:	1155 bp
Locus ID:	74585
UniProt ID:	<u>Q9CUS9</u>
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]