

Product datasheet for **MC222355**

Spf2 (NM_177123) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spf2 (NM_177123) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spf2
Synonyms:	C230086A09Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >MC222355 representing NM_177123
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGAATCCTGTGCCAGTGGCTCAACCAGGAGTTGAGGGTGTCCCGACCCTGAGTCCCAAGTCAT
 TTGCAAAGGCATTTTCTAATGGCTATCTAATTGGAGAAGTTCTGTTCAAGTTGAACTTCAGAGTGATTT
 TGCAGAATTTTCAGAGAGCAGGGTTCAACAGCCAAGCTTAACAATTTCTCCCGCTTCAACCAACTT
 CACCTGTGGGTTTGCAGTTTGTATCAGAAATGTGGCTCAAAGCATCATCACAGAGAAGCCTGGGGCAGCAA
 CCAAATCTGTATCAGTTGTACATTGCTCTTCAGAAAAAGAAGAAAACAGGGCTGACTGGACTAGAGAT
 ACAAACTGCAACCCAGACAACTTGAGGCTTCAGACCCTCAAAGTGAAGGCTTTTCGAGAGCAACGC
 TTAACAGAAAGACGACAAAATGAGATAATGGCCAAAATCCAGGCAGCCATTATACAGATCCCAAGCCTG
 AATCCAACCGTACTTTGAAAGCTATTGAGGCTCAAAAATGATGAAAAAGAAAAAGGAGGCAGAGGACGT
 GGCCAATGAGATTAAGAAATTTGAAGCTAATTAAGAAAGGATCTCCAAATTAAGAAAGTATCCAAG
 ACTTCTTTAGAAAACAACAGACCAGACAACCTGCAGAACTGCTCAACACTTATTCAGATGATGACTACATTA
 AAAAGATCCAGAAACGCCTAGAAGAAGACGCTTTCGCACGCGAGCAAAGGGAAAAAGACGACGCAGATT
 GTTGATGGATCAGCTAATGGCCATGAAGCACAGGAGGAGGCCTATCGGGAGAGCAGCTCATTACCCGG
 CTCATGCGCCAGTCCCAGCAGGAGCGCAGGATTGCTGTGCAGCTCATGCATGTTCCGCCACGAGAAGGAAG
 TTTTGTGGCAAAATAGAATTTCCGAGAGAAAATTTGAAGAAAGACGACTTAAGGATTTCCAGGATGC
 TCTTGATAGAGAAGCGGCTTTGCCAAACAAGCCAAGATTGATTTGCAGAACAACTTGAGGGAGAAG
 GAAATTCATGAAAAGATCTGTGGAAAGAGCCCAACAGCGTTATAAGAAGCATTATGGGATATGTCAG
 AGATTTTGGATCAAATGCTAGATTTGTGCACGAAGGTGGCAGACTATAGTTGCTGACAAATAATCTTAT
 TCCACATAAGATGATGCACGATTGGAAAGAACTGTTTTTTAGTGAATTCATATATGAACAGACTTCT
 CTTACACATGGACAAACAGAACCCTGAGGATACCCGTGCAGAAGTGAAGAAAAGGAACCTACTCGATA
 GCAAAGATTATGAAGATTATAAGAACATGGTTGGAGAGTGGGCCCTACCAGAGGACATGGTTAATAGTTC
 ACCACCCTCCAACAATAGCATTTTGGGTCACGTGCTTCTGAGATTAATTGAAAAAGCTGATCCATCTGCA
 AGTAATGCTGAAGCCACTGAATTACCTTCACTTGCAGTCAAGGGTTGTACTGGGAAGACACTCAGTG
 GAAAACTACTGTTCTAAAGTCTCTACAAAATGACTTTCTGTTTCTGTTTCTATTGATACTTGT
 CCAAGAGGCTATCCAGGCGTTTCATGAAAGACAAAAAGCGGTAAGACACCACCAACTCAGGAAGATGAT
 AAAAGAGATCCTGTAGTGAACCAGGAAAAAGTGAAGCAAACTCAGGATAAAAATGTGTTAGCAGTTAGTC
 CAGTTCCAGGGGACAGAACATCCAAAAAGAAGGTGTCAAGATTAATGAATTTGAACAGTTCAGATCAAG
 TGATAGCTTTTTATCACTTAGCATGCGAGCTCAACTTGGTGCAAAAGTCAAGAGTTGATGCTTAGAAGAGGA
 AAGAGCATTCCAGACATACTTCTGGTCAAGCATCCTGGTAAATGCTATAAAGGAGATACCTGTGGACAAA
 GCTGGGTTCTTGATGGATTTCCAATAACATTAATCAAGCCAACTCCTGGAGGAAGCACTTACAGGGTA
 CAAAAGAAAATCCTACAGTTAAAGAAGAAGAAAGAACAATGCCACATTTGGCCCTAGACCCCTCAACT
 TCCACAGAGGTCTCTCTCTCCCATCTGCATTTGATTTTGTGATATTGCTAGATATTTCCGATAACTCAT
 CGTTGGCTCGAACTAATGATATCATAGCTAAAGAAATCTCACATGAAATTTCTCATGAAAATGTTGGCCG
 TCCTGGAACCTGTAACAAGCCAAGATAAATAGAGCGAGGACCGAACTTAAGAGACCACATACAGCACAGA
 ATTGTTGGCTTCTTGACAACCTGGCCACTGTTGGAAGAGTGGTTTACACAGCCAAAAAATCTGACGA
 AAGTCAATGCTGAAATAGATGAAGCGCTCTTATGCCAAAAGTAAAAGAAATTTTGTACTGAAACAGT
 AAACAAAAGATCAAAGTTGAAAAGACTGGAAGAAAAGGAACTGAGAAAAAGGCAGGAGCTCCCCCG
 GCTGAGCCTCCCGCTATGAGCCCTCCCCTTTCTTCTGAAGCAGAAAAAGACAAGGAGCTTCATCAGGCAA
 AAACCTCTGGAAAGGAAAGACACAATCAGGTGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_177123

Insert Size:	2628 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_177123.4</u> , <u>NP_796097.2</u>
RefSeq Size:	4247 bp
RefSeq ORF:	2628 bp
Locus ID:	320277
UniProt ID:	<u>Q8C9J3</u>
Cytogenetics:	15 A1
Gene Summary:	Required for correct axoneme development in spermatozoa (PubMed:21715716, PubMed:28619825). Important for normal development of the manchette and sperm head morphology (PubMed:28619825). Essential for male fertility (PubMed:21715716, PubMed:28619825). Plays a role in localization of the intraflagellar transport protein IFT20 to the manchette, suggesting function as an adapter for dynein-mediated protein transport during spermatogenesis. Also plays a role in bone growth where it seems to be required for normal osteoblast differentiation (PubMed:28619825).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks numerous 3' exons and its 3' terminal exon extends past a splice site that is used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1.