

Product datasheet for **MC205646**

Spdl1 (NM_027411) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spdl1 (NM_027411) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spdl1
Synonyms:	1700018I02Rik; 2600001J17Rik; 2810049B11Rik; AA409762; Ccdc99
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006674
GCTTACTTAGCAGTGCTGCTGCCGAGTGAAGAGGGAGTTATTTCTGTGCTGAGGTGGAGTTAGTGTACAG
AATCTGGGAGTCCAGTGCTCTCCGGACAGGCCTCCGGTTGCAGCAGCCAGGAAGCGTGAGGAGAGAGTAG
GTTGAGAACAGACATCATGGAGGCAGATATCACAAATCTTCGGAACAACTCAAAGAGTGTGAAGACGAG
CGACTGAAAGCTGCACACTATGGCCTACAGCTCTTGGAGAGGCAGACGGAAGTGCAGAGCCAAGTGGATA
AATGTCATGAAGAAATGATGATCACAGCAGAGAAATACAACCAAGAGAAGCATGCCCTTCAAAGAGAAGT
GGAGCTCAAGAGTCGGATGTTAGACAGCCTGAGCTGTGAGTGTGAAGCTCTGAAACAGCAGCAGAAGGCG
CAGCTGGAGCAGCTAGAGGTGCAGCTACATAGGAGCCACCGGCAGGAAGTGAGCGACCTGAAGAACAAGT
TAGAAAATCTGAAAGTGGAATTGGATGAAGCAAGGCTTGGCGAGAAGCAGCTGAAGCAGAAGCTGGATCT
GCAGGGGGAACTTCTCGCTCACAAAGTCAGAAGAGCTCCGGCTCCTGTCTGAGCAGAGAGTGTCTCAGTAGC
ATGTCTTCGGAGCTGCTGGCTCTTCAGACTGAGCTGACGCGCAGCGGAAGGTGTGAAGAATGCCCTCAAAG
AAGAGGTGAATGAACTGCAGTACAAACAAGAGCAGCTAGAATGTCTCAATACTTCCTTACTGCACCAGGT
AGACAGGCTTAAAGAAGAAAAAGAGGAGCGTGAGAGAGAAGCGGTCTTACTATAATGCCTTGGAGAAA
GCTCGTGTAGAGAACCAGGATCTTCAGGTACAGCTGGGTACGCACTCCAGCAGGCGGCGGACCCCAATA
GCAAAGGGAAGTCTGCTGTCGAGAGGTGGAGGATCGAAGGGTGGCAATGGAACGCCAGCTCAACTTGAT
GAAAGACAAATACAGTCACTGAAGAAGCAAAATGCGTTACACAGAGATCAGATGAACAAGATGAAGTTA
CAAATCTCCACATTGCTGAGGATGAGGGCTCGCAGACTGAGTTTGAACAGCAGGAGCGGTGTTTGCCA
TGATAGAACAGAGAATGGTGAAATAAAACACCTTTTAGGGGAAATTAATAAACTGGAGAAATTTAAGAA
CTTATATGAAAGTATGGAATCGAGGCCTTCCACATCAGACACCGCTTGTGTGCTAGAAGACAGCAGCTAT
TACTCAGATCTACTTCAGCTGAAGCTTGATAAGCTAAACAAAGAAAAATGAAAGCAGAAAGGACGAGCTGT
CCATCCAGAGGATGAAGGCTTTATTTGAGAGCCAGCGGCCCTGGATATTGAGCGGAAACTGTTTACAAA
TGAAAGACACCTGCAGCTCTCAGAAAGTGAAACATGAACTGAGAGCGAAGCTAGATGAACTCAAGCTG
AAGTATGAACCGAAGAGAGAATTGAAGTACCTGTACTCAAAGGAGGCGCGAGGTGCTGCCATTGAATA
TAACCACGCCAGAAGAAACAGAAGAAACAGCTGCTGCCAGTGCCACTGAGGATGGAGTTTCTAGACTCCC
ACCTCACAGGGAGGAGGAATCCTGTCTTAATAGCTTAAAGATAAACAAGTGTGAGTGGAAACAGCCAGCC
TCTTCATGTGTGCAGCCAGCCAGCCTCTCTCCTCATAAGAACCTGCATCTGGATACACAGCCGAAGAAGG
AGAAGAAGTGTGTGAAGCTTGTGGATAGTCCGGCCAACATTGAGGTCTTACATGAACAAAGTGGGAATAC
CCCCAATTCTCCAGGTTAACTGCAGAATCAAAGCTTCCAACAGAAGTGAAGGAAAGGATAGAACTACA
AGCAAATTGGGAAAAGGAGCTTGAAGAAATCACACAACATCATATATGTGCTCAAAGTCAGCCCCAG
AAACGCAGTGCTCACAGCAGTAGTGAGGCTGCGCGCTGGGCCACGCTAACCATCGCTCCTATGCGTGGG
ACACCTTGTGGAGCTTTCATAGGTGAGTGTGAAGCCTGGCGTGTGCGACCGCTGTGACCAAGACTT
CCGATGTGGCTGTGATTCTGACCCATAAGTCCTTAAGTATGATCCTTCTCAGAACTGTGGGTACAGGG
AACAGACCAGATCAGAAGAGAATGGGAGAATTTAAACCTACTTCTGTGTTGGATGTGGAGTTTGAACAT
GGTTAAATAATCTGTATGAAGAACCAAAAATTAGAAAATGGAACACTTAAATTTATTTTATTTCTTT
GTACATCGTTTTGCACTTAGATTTTCTTGTCTTGTAAAAATAATGAAATTGGCTTGAAATATATATTA
CTACAAAATGTTTTAAAGTGTGAAGTACCTATATTCATATGTGTAATTTAGATTTTATGACTCAAACATC
AATAATTTTGAAATTTAAATAAAATTTGAGTAATTTCAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_027411

Insert Size: 1827 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:	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>BC006674</u> , <u>AAH06674</u>
RefSeq Size:	2508 bp
RefSeq ORF:	1827 bp
Locus ID:	70385
UniProt ID:	<u>Q923A2</u>
Cytogenetics:	11 A4
Gene Summary:	Required for the localization of dynein and dynactin to the mitotic kintochore. Dynein is believed to control the initial lateral interaction between the kinetochore and spindle microtubules and to facilitate the subsequent formation of end-on kinetochore-microtubule attachments mediated by the NDC80 complex. Also required for correct spindle orientation. Does not appear to be required for the removal of spindle assembly checkpoint (SAC) proteins from the kinetochore upon bipolar spindle attachment. Acts as an adapter protein linking the dynein motor complex to various cargos and converts dynein from a non-processive to a highly processive motor in the presence of dynactin. Facilitates the interaction between dynein and dynactin and activates dynein processivity (the ability to move along a microtubule for a long distance without falling off the track) (By similarity).[UniProtKB/Swiss-Prot Function]