

Product datasheet for **RN205913**

Spdl1 (NM_001034138) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spdl1 (NM_001034138) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Spdl1
Synonyms:	Ccdc99; RGD1306908
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN205913 representing NM_001034138
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCAGATATCACAAATCTTCGAAACAAGCTCAAAGAGTGTGAAGACGAGCGACTGAAAGCTGCAC
 AGTATGGCTACAGCTATTGGAGAGGCAGACGGAGTTGCAGAGTCAGCTGGATAAATGTCATGAAGAAAT
 GATGACCACAGCTGAGAATTATAACCAAGAGAAGTATGCCCTTCAAAGAGAAGTAGAGCTCAAGAGTCGG
 ATGTTGGAGAGTCTGAGCTGTGAGTGTGAGGCCCTGAGGCAGCAGCAGAAAGCGCAGCTGGAGCAGTTAG
 AAATGCAGCTGCACAGAAGCCACCGGCAGGAAGTGCACGGCCTGAGAAACAAGTTAGAGAATCTGAAAGT
 GGAATTAGACGAAGCAAGGCTTAGTGAGAAGCAGCTGAAGCAGAAGCTGGATCACCAGGGGGAGCTTCTC
 TCTCACAAGTCGAAGAGCTCCGGCTGCTGTCTGAGCAACGGGCACTCAGCAGTGTGTCTCAGAGCTGC
 TGTCTCTTCAGACCGAGCTGACCGAGGCAGAGGGTGTGAAGAACGCCCTCAGAGAAGAGGTGAACGAACT
 ACAGTGCAAAACAGGAGCAACTAGAATGTCTCAACGCTTCTTACTGCACCAGGTAGACCGGCTTAAAGAA
 GAAAAGGAGGAGCGAGAGAAGGAGGCGGTCTTACTATAATGCCTTGGAGAAAGCTCGTGTAGAAAATC
 AGGATCTCCAGGTGCAGCTGGGCCATGCACTCCAGCAGGCGGCGGATCCCAACAGCAAAGGAAACTCTCT
 GTTCGAGAGGTGGAGGATCGAAGGGTGGCAATGGAACGCCGGCTCAACCTGATGAAAGACAAATACCGAG
 TCACTGAAGAAGCAAAATGCCTTACCAGAGATCAGATGAACAAGATGAAGTTACAAATTTCCACGTTGC
 TGAGGATGAGGGGATCACAAACCGAATTTGAGCAGCAGGAACGGTTGTTCCGCATGTTAGAGCAGAAGAA
 TGGTGAATAAAACACCTTTTAGGGGAAATTAATAAACTGGAGAAATTTAAGAACTTATATGAAAATATG
 GAATCCAAGTCTTCCACATCAGACAGTGCTTGTGCTCTAGAAGACAGCACCTACTACACAGATTTGCTTC
 AGCTGAAGCTTGATAAACTAAACAAAGAAAATGAAAGCACGAAGGGTGAAGTGTCCATCCAGAGGATGAA
 GGCATTATTTGAGAGCCAGCGGACCCTGGATATTGAACGGAAACTGTTTGCAAATGAAAGACACCTGCAG
 CTCTCAGAGAGTGAACCTGAACTGAGAGCTAAGCTAGATGAAGTCAAGCTGAAGTACGAGCCTGAAG
 AGAGAATTGAAGTACCTGTACTCAAAGGAGGCGTGAGGTGCTGCCATTGAATATAAACACCCCAAGAAGA
 AACAGCTGCTGCCAGTGCCACTGGGGAAGACGTTTCTAGACTTCCACTTGAGAGGAAGGAGGAGTCTGT
 CTTGATAACTTAAAGATAACACGGTGCAGTGGAAGCAGCCAGCCAGCCTCTCTCCTCATAAGAGCCTGC
 CTCTGGATACACAGCCGAAGAAGGAGAAGTGTGTGACGCTTGTGGCTAGTCCAGCCAGCACTGAGGTCTC
 ACATGAACAAAGTGGGAACACCCCAAGTCTCCAGGTTAACTGAAGAATCAAGGCTTCCAACAAAAGTG
 AAGGAAAGAAAAGAAGCTACAAGCAAATTTGAAAAAGGAGCTTCTAAGAAATCACACACCATCATGTATG
 TGTCTCGAAGTCAACCCAGAGATGCAGTGCCACAGCAG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001034138

Insert Size: 1794 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.
RefSeq:	<u>NM_001034138.1, NP_001029310.1</u>
RefSeq Size:	2310 bp
RefSeq ORF:	1794 bp
Locus ID:	303037
UniProt ID:	<u>Q3KR99</u>
Cytogenetics:	10q12
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]