

Product datasheet for **RN207201**

Spag1 (NM_001012116) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag1 (NM_001012116) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Spag1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN207201 representing NM_001012116
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGACTGCTAAGGTTAAGGACCATCCACCCTGTGGGCTTTGGAACAACAAAAACATTTAAATTTCCCA
 TCGAACATTTGGATTTCAAGTATATTGAAAAGTTCAGATGTGAAACAGCTGGAAAAAATTCCTTTGTGT
 GCTAAGGTCTGGTGAAGAAGGCTATTATCCTGAACTCACGGAGTTTGTGAGAAGCGCCTCACCGGCTTG
 GCTCCAGAAAGTCGAGCTCTGAGGAAGGACAAGCCTGCAGCCACAGCCTCCAGCTTTTCAGCAGAAGAGT
 GGGAAAAAATCGACAGCGATCTAAAGAGTTGGGTGTGAGAAATCAAAAGAGAGGAAAAACACAGCACTT
 CCATGACCCTGAAAAACATCCAGGAGTGAAGATCCTCTGCCTCCTGTTCTGCTGCTCAACAGCTGTCT
 CGCGGCGGCAAGGAAACATCTTCTAAAAGTAAGACAGCTAAGAAGAGGATTCCAAGGATTATGCAGAGT
 GGGATAAATTTGATGTGAAAAAGAGTGTCAAAGATTGATGAGGATTACAAAGAGAAGACTGTCATAAA
 CAACAAAGCTCATTTGTCTAAAATTGAGACGAAAAATAGACACAGCAGGTCTGACTGAGAAGGAAAAAAT
 TTTCTTGCCAACCGTGAAAAGGGGAAAGGGAACGAGGCGTTCTACTCAGGAGACTACGAAGAGGCTGTGA
 TGTATTACACCAGGAGCTTATCCGCTCTTCCCACTGCGACTGCCTACAACAATCGTGCTCAGGCCGAAAT
 CAAGCTGCAGAGATGGAGCAGTGCTCTTGAAGACTGCGAGAAGGCCTTGAGCTGGAGCCTGGGAACATA
 AAAGCTCTCTGAGACGCGCCACCACATATAAATCAAAACAAGTTCTTGAGGCGCGTGACGACCTGA
 GAAAGGTGCTGCAAGCAGAGCCTGACAACGACCTGGCCAAGAAAACCTTATCAGAGGTTGAAAGAGAGCT
 GAAGAATTCAGAGCCTGCCTCTGAGCTCCAACCAAGGGAAGAGGATGGTTATTGAGGAAGTTGAAAC
 TCGGGAGATGAAGGTGGGAAGGAGACGAAGATGATCATGAAGATGATGGTGTGGATATGGCGGCCATGG
 GCAACATCCAGAAGAAGCTGATGGTTCGAGCCAGGGTGGCAGGCGGTGCGGCGGGCCCGGACACCGAT
 GCCCGGAGCGGAGCAGCAGGAAGGCCAGCCAGAGACAGGGACGGCCAGTACCAGCGACAACACGACCTG
 GAGGAGCGGCGAGCCGACAGAGTCCCGGCGACCTCAAGAGCCGCGGCAACGAGCTGTTCCGCGTGGGC
 AGTTTCGCTGAGGCAGCCGTACAGTACTCAGGGCGATAGCGCAGCTGGAACCCACAGGAAGTGAATATGC
 GGATGAGCTAAGCATCTTGATTCAAATAGAGCGCGTGTACCTCAAAGAAGGAACTGCAGGGGCTGC
 ATCCAGGACTGTGACAGGGCTCTGGAATTCAGCCGTTGCGAGTGAAGCCTCTTTACGGCGAGCGATGG
 CCTATGAGACTTTAGAGCAGTACAGGAGCGGTATGTGGACTATATAACAGTGTGAAGATAGACTGTAG
 GATCCAGCTGGCCAGCAGCAGCTTAACAGAATAACAAGAATCTTAACAGAGCTAGATGGACCAAAATGG
 CGGGAGAGACTGCCCCCATCCCGGCTGTGCTGCATCTGAGCCTCTGAGAGTTTGGCACCTGTGCTG
 AGACCCAGACCAAGATCCGTGTCCCAACAGCTGCACGCCACCATCACAGATGAAAAATGTTTCAAGC
 CCTTAAGGAAGAAGGAAATCAACTTGTAAGGACAAAAATTATAAAGACGCCATTAGTAAATACAACGAA
 TGCTTAAAGATTAAACAGCAAGGCATGTGCCATCTATACAAACAGGGCTCTCTGTTACTTGAAGCTGGGAC
 AGTTTGAAGAGGCAAGCTGGACTGTGACAAGGCACTTCAGATAGACAGCAAGAAATGTGAAAGCCTCTTA
 CAGACTCGAGCTCGCCAGAAAGGACTCGAGAATTGCCGGGAAAGAGTGGCGGATCCAGTCAGGTTGTC
 CTCCTAAGCCCAGATTCCAGTGAAGCAGCCAGGCACCTGGACACTAAGAATGACACAGCACCTCCAGCA
 GAGAGAGGGAGAGGAGGAGAATTGAAATCCAAGAGGTGGATGACAGCAGTGTGAGGAGCCTGAGCGGCC
 CGCAGAGGCCTCTGCCGTGGAAGAGGGGTGGTCTGCAGAACGAGCCGGAAGATCGAGGTGTGCAAGCCT
 AGGAACGCCTATGAGTTGCGGCAGGTCTGAGCACTATCAGCGCCAGGAAAGACGAAGAGGCCTGTGCAC
 AGCTTTTGTCTTCACTGCTCCCAAGACCTGCCTGTGTTGCTAAGTAACAAACTGGAAGGGGACATGCT
 CCTCTCATCATGCAGTCACTGAAAAGTCACTTGTGGCCAAGGACCCCTCACTGGTGTGCAAGCATCTC
 CTGTATCTGAGCAAAGCAGAGAGGTTTGAAGTGTGCTGGCACTGACTAGCAAAGACCAAAAGGAGCAGA
 TGGCGCAGCTGTTTGTGACCTGTCAGACGCACAGGCTGACTGTCTCACGGCAGAGGATATACAGGCCCT
 AAGAAGGCAGTATGTGCTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001012116

Insert Size:	2682 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_001012116.1, NP_001012116.1</u>
RefSeq Size:	3681 bp
RefSeq ORF:	2682 bp
Locus ID:	315033
UniProt ID:	<u>Q5U2X2</u>
Cytogenetics:	7q22
Gene Summary:	May play a role in the cytoplasmic assembly of the ciliary dynein arms (By similarity). Binds GTP and has GTPase activity (By similarity). Plays a role in fertilization.[UniProtKB/Swiss-Prot Function]