

Product datasheet for **MC215884**

Spag4 (NM_139151) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag4 (NM_139151) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spag4
Synonyms:	1700041K21Rik; mKIAA4118; MNCb-0953; Sun4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC215884 representing NM_139151
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCGCGGAGCCCCGCTCAGGCTCGGCCGATCCTCTCATAATCACACACCAACTTCTACAGCGAGA
 ACAGCAATAGTTCCACAGCGCGACTTCGGGGGACAGCAATGGGCGCGGTCCGCTGGGCCGGAGCTCGG
 GGAGCCCAGGGCAGAAGGGCCGGGGCTCGAGCTGTGGTGAGCCCGCCTTAAGCCCAGGAATGCCCGGA
 GGAGACACATGGGCAGGAAGCTCTCGGCCGAAGCTGGCGCCTCGGAGCCACAATGGGCAGACCGCTGTG
 GCGCGGAACCGTGAGGGGCGGGCCTCGGAACCGTCTGGATCTTCTGTAGTTTTGGAGGAACAACCTCAA
 CCTTCTCCCGATCCTGGATCTGAGGCAGGAGATGCCTACCCCGAGGGTGTCCAAGAGCTTCTGAGCCTC
 CTCTTTCAGGTGCTGAGCATGGTGTATCCCTGGCAGTCGATGGGCTGGTCTGTGTGTGCAGGGAAATCT
 GCTCCATCCGCTTCTGTTCAGTCTGTGTCGCTCCTGAGCATCTTCTGGCAGCACTCTGGTGGGGCT
 CCTGTACCTGATCCCTCCTTTGGAGAACGAACCTACGGAGATGCTGACTCTAAGCCAATACCACCACCGC
 GTGCATTCCCAGGGCCAGCAACTGCAGCAGCTCCAGGCAGAACTGAATAAATCCACAAGGAGGTGTCCA
 GCGTTCGTGCAGCCACAGTGAGAGAGTGGCCAAGCTCGTGTCCAGAGGCTGAATGAAGACTTCGTGCG
 CAAACCTGACTATGCACTGAGCTCTGTGGGAGCCTCCATCGACCTGGAGAAGACGTCCAGTGACTACGAG
 GACCAGAACACTGCCTACTTCTGGAACCGCTTGAGCTTCTGGAATATGCCCGCCCGCCTTCTGTATAT
 TGGAGCCAGATGTGTCCCTGGAATTTGCTGGGCTTTTGAAGGTGATAAAGGCCAGGTGGTGATCCGACT
 GCCAGGTGATGTGCAGTTAAGCGACATCACCTGCAGCATCCTCCACCCACTGTGGCACACACCGGAGGG
 GCCAGCAGCGCGCTCGGGACTTTGAGTCTATGGGCTCCAAGCTGATGACGAGACTGAAGTGTCTTGG
 GGAAATCATCTTTGATGTGCAGAAATCTGAAATTCAGACTTTCCACCTCCAGAATGATCCTCCTCTGC
 CTCCCCAAGGTGAAGATTCAGATTCTAAGCAACTGGGGCCATCCCGCTTACGTGCTTATATCGCGTC
 CGTGCTCATGGTGTGCGGACCTCAGAGTGGGCAGACGATAATGCCACAGGGGTACAGGGGGACCCATT
 AA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_139151

Insert Size: 1332 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:	NM_139151.4 , NP_631890.3
RefSeq Size:	1502 bp
RefSeq ORF:	1332 bp
Locus ID:	245865
UniProt ID:	Q9JIF2
Cytogenetics:	2 H1
Gene Summary:	Involved in spermatogenesis. Required for sperm head formation but not required to establish and maintain general polarity of the sperm head. Required for anchoring and organization of the manchette. Required for targeting of SUN3 and probably SYNE1 through a probable SUN1:SYNE3 LINC complex to the nuclear envelope and involved in accurate posterior sperm head localization of the complex. May anchor SUN3 the nuclear envelope. Involved in maintenance of the nuclear envelope integrity. May assist the organization and assembly of outer dense fibers (ODFs), a specific structure of the sperm tail.[UniProtKB/Swiss-Prot Function]