

Product datasheet for **MR222592**

Spag16 (NM_029160) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag16 (NM_029160) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spag16
Synonyms:	4921511D23Rik; 4930524F24Rik; 4930585K05Rik; AV261009; Pf20; Wdr29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR222592 representing NM_029160
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCTCCGCTCGGGTCCCGCGCTCGGGTCTGGAGGAGCTGGCATTGGCTTGTACCCACCG
 GCGAGGTGACAGAGGCGGTGACCTCCGAGGGCGCTACTACCTGGAGCAGGTACCATAACGGAAACATC
 GGAAGATGAATGCGAATATGAAGAGATACCAGATGACAATTTTCAGCATTCTGAAGGAGAAGAAGATCTG
 GAAAAAGCAATTCACATCATTGGAGAGCAAGCCAGAGACATCCATATTTTGAACAACAAACCATTCTTC
 CTGCAAGGAATGTAATGCAGGAAGCCATAGAAGATTTTCTCTGCAATTTCTGATCAAAAAGGGGATGAC
 CAGAACTCTGGACTGCTCCAGGCCGAGTGGTATGAGTTAATACAGAAGAAAGGAAGTACTTTAAAGGG
 CTCGGTAAATGTTCCCGATGTCTACAGCCAGGTGATGCTTTAGAGACTGAGAACAAAACTGAAGAAGG
 AATTGAAGCACTCAAACAGGCAGCTGAAAAGGCCAAAGAAGATCTACTGAGAACTCAGAAGGAACGGGA
 CTTCCATCGCATGCATCATAAGCGCATAGTGCAAGAAAAGAACAAGCTCATTGCTGACCTCAAAGGGCTG
 AAATTGCATTATGCATCATAACCAACTATAAGGGTGTACATGAGAAGCATCATGCTTTATTGAAGG
 AGAAAAATGCTGACCTCTTTGAAAAGAGATCGAGCTGTTGGGAAGATTTCTGGGCTTCAAGCAACTGAA
 GAACATAGACATGGGACATATTCAGTTCTGTAATTAAGGATCTTATGAGAGTCTTCTATCACAAAGA
 GAGTCAGGAGACAGAGCTGGTCACAGTTGTGAGAAAGAAAACAGTTTCCAGAGGGCCCAACTCAGAAAAGTC
 TTCGTGAAGCCAGGAAGAAGTTGGATATAAATCAAAGTTGAAGAATGAGAAAAGGATTGAGAAATTTCC
 TGAGATATGCAACCAGATCCAAACGTGACTTCATGTACAGAAAACGTTTCTGCAGAAAATTTGACTAC
 AAGCTAAACAATATTTTCAGACTTCATGAACTCCAGTGAAGTGCATCGTCATGCATCCCTGCAGAGACT
 ATCTCATCTCCTGTAGTGAAGATCGTCTCTGGAAGATGGTGGGCCTCCACAGGGCAATGTACTTCTTAC
 AGGATCTGGCCACACTGATTGGTTGTCTGGCTGCTGCTTCCATCCGAGTGGCAGCAAGTTGGCTACCTCA
 AGTGGTGACAGCACAATCAAATATGGGACCTCAACAAAGGTGAATGCACCTTGACCCTGAAGGACACA
 ACCATGCCGATGGTCTGCACCTGGCACTCCTGTGGTGAATTCGTGGCTTCTGCCTCACTGGATATGAC
 GAGTAAAATCTGGGATGTCAACAGTGAACGGTGCAGATACACTTTGTATGGACACACAGACTCTGTGAAC
 AGCATTGAGTTTTTCCCTTTCTCAACATTTCTTCTCACCCTTCTGCAGACAAGACCTTGTGTGTGGG
 ATGCACGAACAGGTAATGTGAGCAGTCTCTGTATGGTCAATGCATTCTGTCAATGATGCCACCTTCC
 GCCTAGGGGTACATAATAGCATCCTGTGATGCCCGTGGAGTTACAAAGCTGTGGGACTTCCGAAACTC
 ATTCAAATCGTGTCCATTGATGTGGTCCAAGTTCGGGAAATGAGGTGAACCTTTGACCAGTCAAGTCCGAG
 TTTTAGCTCAGGCGAGTGCCAACGGGATTATCCATTTGCTGGATCTTAAATCGGGGCAAATTCACAACT
 GGTGGGCCACGAGAGTGAAGTGCACAGTGTGGTGTTCACCTGGGGGAAAATCTGTATTCTGGAGGC
 TCTGACGGCACCATTGGTTGTGGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR222592 representing NM_029160
 Red=Cloning site Green=Tags(s)

MAAPSGVPPLRVLEELGIGLSPTGEVTEAVTSEGAYYLEQVTITETSEDECEYEEIPDDNFSIPEGEEDL
 EKAIHIIGEQARDIHILEQQTILPARNVMQEAIEDFLCNFLIKMGTRTLDCFQAEWYELIQKKGSDFKG
 LGNVPDVYSQVMLLETENKNLKKELKHFQAAEKAKEDLLRTQKERDFHRMHHKRIVQEKNLADIKGL
 KLHYASYEPTIRVLHEKHHALLKEKMLTSLERDRAVGKISGLQATLKNIDMGHIQVPVIKGSYASITR
 ESGDRAGHSCSEKENSSEGPTQKSLREAREEVGYKSKLKNEKKDSEFPVDMQDPDNVTSCTEENVSAAKFDY
 KLNNIFRLHELHPVSCIVMHPCRDYLISSCEDRLWKMVGLPQGNVLLTGSHTDWSGCCFHPSGSKLATS
 SGDSTIKLWDLNKGECTLTLEGNHAVWSCTWHSCGDFVASASLDMTSKIWDVNSERCRTLYGHTDSVN
 SIEFFPFSNILLTASADKTLVWDARTGKCEQSLYGHMHSVNDATFTPRGHIIASCDARGVTKLWDFRKL
 IPIVSIIDVGPSSGNEVNFQSGRVLQAASANGIIHLDDLKSGQIHKLVGHESEVHSVVFVSHLGENLYSGG
 SDGTIRLWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9077_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029160

ORF Size: 1917 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_029160.3](#), [NP_083436.2](#)

RefSeq Size: 2144 bp

RefSeq ORF: 1920 bp

Locus ID: 66722

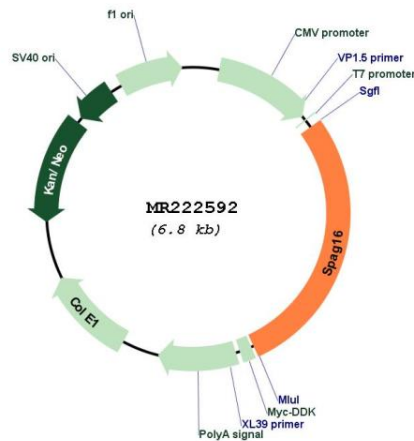
UniProt ID: [Q8K450](#)

Cytogenetics: 1 C3

MW: 71.5 kDa

Gene Summary: Necessary for sperm flagellar function. Plays a role in motile ciliogenesis. May help to recruit STK36 to the cilium or apical surface of the cell to initiate subsequent steps of construction of the central pair apparatus of motile cilia.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222592