

Product datasheet for **MR229744**

Spag16 (NM_001271533) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spag16 (NM_001271533) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Spag16
Synonyms: 4921511D23Rik; 4930524F24Rik; 4930585K05Rik; AV261009; Pf20; Wdr29
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229744 representing NM_001271533
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCTCCGCTGGGGTCCCGCGCTGCGGGTCTGGAGGAGCTGGGCATTGGCTTGTACCCACCG
 GCGAGGTGACAGAGGCGGTGACCTCCGAGGGCGCCTACTACCTGGAGCAGGTACCATAACGAAACATC
 GGAAGATGAATGCGAATATGAAGAGATACCAGATGACAATTTTCAGCATTCTGAAGGAGAAGAAGATCTG
 GAAAAAGCAATTCACATCATTGGAGAGCAAGCCAGAGACATCCATATTTTGGAAACAACAAACCATTCTTC
 CTGCAAGGAATGTAATGCAGGAAGCCATAGAAGATTTTCTCTGCAATTTCTGATCAAAATGGGGATGAC
 CAGAACTCTGGACTGCTTCCAGGCCGAGTGGTATGAGTTAATACAGAAGAAAGGAAGTGACTTTAAAGGG
 CTCGGTAATGTTCCCGATGTCTACAGCCAGGTGATGCTTTTAGAGACTGAGAACAAAACTTGAAGAAGG
 AATTGAAGCACTTCAAACAGGCAGCTGAAAAGGCCAAAGAAGATCTACTGAGAACTCAGAAGGAACGGGA
 CTTCCATCGCATGCATCATAAGCGCATAGTGCAAGAAAAGAACAAGCTCATTGCTGACCTCAAAGGGCTG
 AAATTGCATTATGCATCATACGAACCAACTATAAGGGTGTACATGAGAAGCATCATGCTTTATTGAAGG
 AGAAAATGCTGACCTCTTTGAAAAGAGATCGAGCTGTTGGGAAGATTTCTGGGCTCAAGCAACACTGAA
 GAACATAGACATGGGACATATTCAGTTCTGTAAATTAAGGATCTTATGAGAGTGCTTCTATCACAGA
 GAGTCAGGAGACAGAGCTGGTCACAGTTGTGAGAAAAGAAAACAGTTCAGAGGGCCCAACTCAGAAAAGTC
 TTCGTGAAGCCAGGGAAGAAGTTGGATATAAATCAAAGTTGAAGAATGAGAAAAGCCATCTTCAACAGA
 GTCCAAGAGGGTCCAACCGAGTCCAACAGAGTCTCATATGGTCAGTTCACGATCATCATCGCTCTACCCA
 ACTCCTTCTCCATCAGCAGCAGTCAAGAGGGAACCTTCCAACCTTGAATAAGATCACACCTCAACAGG
 GCTCCATTAGCACAAGAGAGCAAAGTACAGGGACTCAGAAAAAGACCACCGAAGACCTTGTCTCCA
 TCAGCATGAGTCAAATGGAAGATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229744 representing NM_001271533
 Red=Cloning site Green=Tags(s)

MAAPSGVPPLRVLEELGIGLSPTGEVTEAVTSEGAYYLEQVTITETSEDECEYEEIPDDNFSIPEGEEDL
 EKAIHIIGEQARDIHILEQQTILPARNVMQEAIEDFLCNFLIKMGMTRTLDCFQAEWYELIQKKGSDFKG
 LGNVPDVYSQVMLLETENKNLKKELKHFQAAEKAKEDLLRTQKERDFHRMHHKRIVQEKNLADLKGL
 KLHYASYEPTIRVLHEKHHALLKEKMLTSLERDRAVGKISGLQATLKNIDMGHIQVPVIKGSYESASITR
 ESGDRAGHSCEKENSSEGPTQKSLREAREEVGYKSKLKNEKPPSSTESKRVPSPTESHMVSSRSSSLYP
 TPSFHQQSRGNFPTWNKITPQQGSISTREQSTGTLRKRPPKTSCLHQHESNGRF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

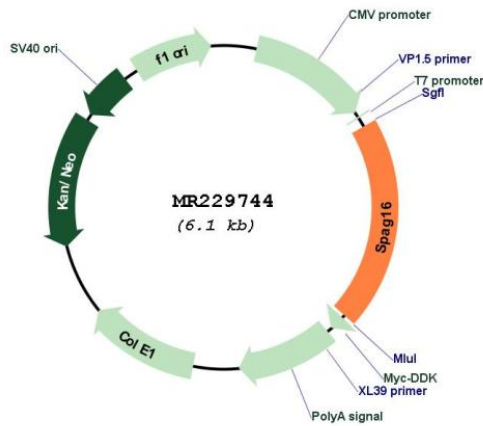
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271533

ORF Size:	1215 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:	<ol style="list-style-type: none"> 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_001271533.1 , NP_001258462.1
RefSeq Size:	3589 bp
RefSeq ORF:	1218 bp
Locus ID:	66722
UniProt ID:	Q8K450
Cytogenetics:	1 C3
MW:	46.4 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]