

Product datasheet for MR222547

Spag16 (NM_025728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag16 (NM_025728) 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:	>MR222547 representing NM_025728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAACCAGATCCAAACGTGACTTCATGTACAGAAAACGTTTCTGCAGCAAAATTTGACTACAAGCTAA
ACAATATTTTCAGACTTCATGAACTCCCAGTGAGCTGCATCGTCATGCATCCCTGCAGAGACTATCTCAT
CTCCTGTAGTGAAGATCGTCTCTGGAAGATGGTGGCCCTCCACAGGGCAATGTACTTCTTACAGGATCT
GGCCACACTGATTGGTTGTCTGGCTGCTGCTTCCATCCGAGTGGCAGCAAGTTGGCTACCTCAAGTGGTG
ACAGCACAACTCAAACTATGGGACCTCAACAAAGGTGAATGCACCTTGACCCTTGAAGGACACAACCATGC
CGTATGGTCTGCACCTGGCACTCCTGTGGTGACTTCGTGGCTTCTGCCTCACTGGATATGACGAGTAAA
ATCTGGGATGTCAACAGTGAACGGTGCAGATACACTTTGTATGGACACACAGACTCTGTGAACAGCATTG
AGTTTTTCCCTTCTCCAACATTCTTCTCACCGCTTCTGCAGACAAGACCTTGTCTGTGTGGGATGCACG
AACAGGTAATGTGAGCAGTCTCTGTATGGTACATGCATTCTGTCAATGATGCCACCTTACGCCTAGG
GGTCACATAATAGCATCCTGTGATGCCCGTGGAGTTACAAAGCTGTGGGACTTCCGAAACTCATTCCAA
TCGTGTCCATTGATGTGGTCCAAGTTCGGGAAATGAGGTGAACCTTGACCAGTCAGGTCGAGTTTGTAGC
TCAGGCGAGTGCCAACGGGATTATCCATTTGCTGGATCTTAAATCGGGGCAAATTCACAAACTGGTGGGC
CACGAGAGTGAAGTGCACAGTGTGGTGTTCACCTGGGGGAAAATCTGTATTCTGGAGGCTCTGACG
GCACCATTGCGTTGTGGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222547 representing NM_025728
Red=Cloning site Green=Tags(s)

MQPDPNVTSC TENVSAAKFDYKLN NIFRLHEL PVS CIVMHP CRDYLI SCSEDR LKWKVGL PQGNVLL TGS
 GHTDWL SGCFFHPSGSKL ATSSGDSTIKL WDLNKGE CTLLEGHNHAVWSCT WHSCGDFV ASASLDMTSK
 IWDVNSERC RYTLYGHTDSVNSIEFFPFSNILL TASADKTL SVWDARTGKCEQSL YGHMHSVNDATF TPR
 GHI IASCDARGVTKL WDFRKLPIV SIDVGPSSGNEVNF DQSGRVL AQASANGI IHL LLDL KSGQIHKLVG
 HESEVHSVVF SHLGENLYSGGSDGTIRLWI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

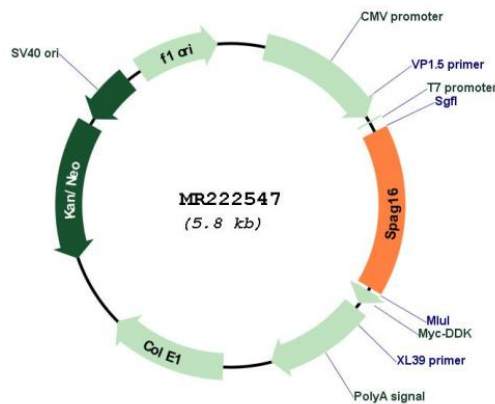
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025728

ORF Size: 930 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_025728.4 , NP_080004.1
RefSeq Size:	1287 bp
RefSeq ORF:	933 bp
Locus ID:	66722
UniProt ID:	Q8K450
Cytogenetics:	1 C3
MW:	34.6 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]