

Product datasheet for **MG222547**

Spag16 (NM_025728) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag16 (NM_025728) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spag16
Synonyms:	4921511D23Rik; 4930524F24Rik; 4930585K05Rik; AV261009; Pf20; Wdr29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222547 representing NM_025728 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAACCAGATCCAACGTGACTTCATGTACAGAAAACGTTTCTGCAGCAAAATTTGACTACAAGCTAA
ACAATATTTTCAGACTTCATGAACCTCCAGTGAGCTGCATCGTCATGCATCCCTGCAGAGACTATCTCAT
CTCCTGTAGTGAAGATCGTCTCTGGAAGATGGTGGCCCTCCACAGGGCAATGTACTTCTACAGGATCT
GGCCACACTGATTGGTTGTCTGGCTGCTGCTTCCATCCGAGTGGCAGCAAGTTGGCTACCTCAAGTGGT
ACAGCACAATCAAATATGGGACCTCAACAAAGGTGAATGCACCTTGACCCTTGAAGGACACAACCATGC
CGTATGGTCTGCACCTGGCACTCCTGTGGTACTTCGTGGCTTCTGCCTCACTGGATATGACGAGTAAA
ATCTGGGATGTCAACAGTGAACGGTGCAGATACACTTTGTATGGACACACAGACTCTGTGAACAGCATTG
AGTTTTCCCTTCTCCAACATTCTTCTCACCGCTTCTGCAGACAAGACCTTGTCTGTGTGGGATGCACG
AACAGGTAATGTGAGCAGTCTCTGTATGGTCACATGCATTCTGTCAATGATGCCACCTTACGCCTAGG
GGTCACATAATAGCATCCTGTGATGCCCGTGGAGTTACAAAGCTGTGGGACTTCCGGAAACTCATTCCAA
TCGTGTCCATTGATGTGGTCCAAGTTCGGGAAATGAGGTGAACCTTGACCAGTCAGGTCGAGTTTTAGC
TCAGGCGAGTGCCAACGGGATTATCCATTTGCTGGATCTTAAATCGGGGCAAATTCACAACTGGTGGGC
CACGAGAGTGAAGTGCACAGTGTGGTGTTCACCTGGGGGAAAATCTGTATTCTGGAGGCTCTGACG
GCACCATTCCGGTTGTGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222547 representing NM_025728
 Red=Cloning site Green=Tags(s)

MQPDPNVTSC TENVSAAKFDYKLN NIFRLHEL PVS CIVMHP CRDYLI SCSEDR LKWMVGL PQGNVLL TGS
 GHTDWL SGCFFHPSGSKL ATSSGDSTIKL WDLNKGE CTLLEGHNHAVSCT WHSCGDFV ASASLDMTSK
 IWDVNSERC RYTL YGHTDSVNSIEFFPFSNILL TASADKTL SVWDARTGKCEQSL YGHMHSVNDATF TPR
 GHIIASCDARGVT KLWDFRKL IPIVSI DVGPSSGNEVNF DQSGRVL AQASANGI IHL LLDL KSGQI HKLVG
 HESEVHSVVF SHLGENLY SGGSDGT IRLWI

TRTRPLE - GFP Tag - V

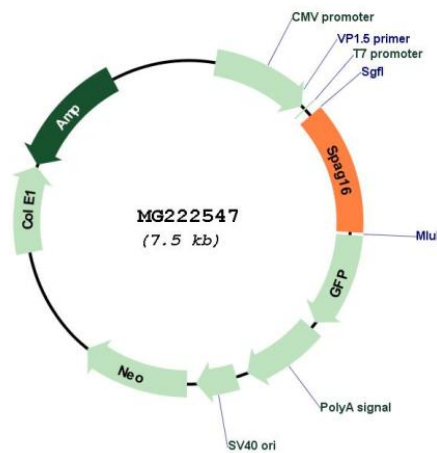
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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
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]