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Product datasheet for MC227533

Spag16 (NM_001271533) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag16 (NM_001271533) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spag16
Synonyms:	4921511D23Rik; 4930524F24Rik; 4930585K05Rik; AV261009; Pf20; Wdr29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC227533 representing NM_001271533
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCTCCGTCTGGGGTCCCGCCGCTGCGGGTGCTGGAGGAGCTGGGCATTGGCTTGTCACCCACCG
GCGAGGTGACAGAGGCGGTGACCTCCGAGGGCGCCTACTACCTGGAGCAGGTCACCATAACGGAAACATC
GGAAGATGAATGCGAATATGAAGAGATACCAGATGACAATTTCAGCATTCCTGAAGGAGAAGAAGATCTG
GAAAAAGCAATTCACATCATTGGAGAGCAAGCCAGAGACATCCATATTTTGGAACAACAAACCATTCTTC
CTGCAAGGAATGTAATGCAGGAAGCCATAGAAGATTTTCTCTGCAATTTCCTGATCAAAATGGGGATGAC
CAGAACTCTGGACTGCTTCCAGGCCGAGTGGTATGAGTTAATACAGAAGAAAGGAAGTGACTTTAAAGGG
CTCGGTAATGTTCCCGATGTCTACAGCCAGGTGATGCTTTTAGAGACTGAGAACAAAAACTTGAAGAAGG
AATTGAAGCACTTCAAACAGGCAGCTGAAAAGGCCAAAGAAGATCTACTGAGAACTCAGAAGGAACGGGA
CTTCCATCGCATGCATCATAAGCGCATAGTGCAAGAAAAGAACAAGCTCATTGCTGACCTCAAAGGGCTG
AAATTGCATTATGCATCATACGAACCAACTATAAGGGTGTTACATGAGAAGCATCATGCTTTATTGAAGG
AGAAAATGCTGACCTCTTTGGAAAGAGATCGAGCTGTTGGGAAGATTTCTGGGCTTCAAGCAACACTGAA
GAACATAGACATGGGACATATTCAGGTTCCTGTAATTAAAGGATCTTATGAGAGTGCTTCTATCACAAGA
GAGTCAGGAGACAGAGCTGGTCACAGTTGTGAGAAAGAAAACAGTTCAGAGGGCCCAACTCAGAAAAGTC
TTCGTGAAGCCAGGGAAGAAGTTGGATATAAATCAAAGTTGAAGAATGAGAAAAAGCCATCTTCAACAGA
GTCCAAGAGGGTCCAACCGAGTCCAACAGAGTCTCATATGGTCAGTTCACGATCATCATCGCTCTACCCA
ACTCCTTCCTTCCATCAGCAGCAGTCAAGAGGGAACTTTCCAACTTGGAATAAGATCACACCTCAACAGG
GCTCCATTAGCACAAGAGAGCAAAGTACAGGGACACTCAGAAAAAGACCACCGAAGACCTCTTGTCTCCA
TCAGCATGAGTCAAATGGAAGATTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001271533
Insert Size:	1218 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001271533.1, NP_001258462.1
RefSeq Size:	3589 bp
RefSeq ORF:	1218 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] Transcript Variant: This variant (3) lacks several exons and includes an alternate 3' terminal exon compared to variant 1. It encodes isoform 3 which is shorter and has a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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