

Product datasheet for **MG211105**

Spag1 (NM_012031) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag1 (NM_012031) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spag1
Synonyms:	tpis
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG211105 representing NM_012031
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGCTAAGGCTAAGGACTGTCCATCATTGTGGGCTTTGGAACAACAAAAACATTTAAAATCCCA
 TCGAACATTTGGATTTCAAGTATATTGAAAACCTGTTGAGATGTGAAACACCTGGAAAAAATCTTTATGT
 GCTGAGGTCTGGTGAAGAAGGCTACTATCCTGAACTCACGGAATTTTGGGAGAAGTGCCTCACCAACTTG
 GCTCCTAAAAGTCGAGCTCTGAGGAAGGACAAGCCTGCAGAGACAGCATCCAGCTTTTTCAGCGGAAGAGT
 GGGAAAAATCGACAGTGATCTAAAGAGTTGGGTGTCAGAAATCAAAGAGAGGAAAAATACATGTCACTT
 CCATGACCCTGAAAACATCCCGGAGTGAAGATCCTCTGCCTCTGTCCGCGCTCCACCTGCTGCCCT
 CACAGTGGCAAGGAAACATATTCTAAAAGTAAGACAGCTAAGAAGAGGATTCCAAGGGATTATGCAGAA
 TGGGATAAATTTGATGTGAAAAAGAATGTTCAAAGATTGATGAGGATTACAAAGAAAAGACTGTCATAAA
 CAACAAGGCTCATCTGTCTAAAATTGAGACAAAAATAGAAACAGCAGGTCTGACTGAGAAGGAAAAGAGT
 TTTCTTGCCAATCGTGAAAAGGGAAAAGGGAACGAGGCTTTCTACTCTGGGGACTATGAAGAGGCCGTGA
 TGTATTACACCAGGAGCTTATCAGCCCTTCCCACCGCCATTGCCTATAACAATCGAGCTCAGGCCGAAAT
 CAAGTTGCAGAGATGGAGCAGTGCTCTTGAAGACTGTGAGAAGGCCTTGGAGCTAGATCCCGGAAACGTA
 AAAGCTCTCTGAGACGAGCCACTACATATAAACATCAAACAAGCTCCAGGAAGCTGTGGACGACCTGA
 GAAAGGTGCTGCAGGTGGAGCCGGACAACGACTTGGCCAAGAAGACCTTATCAGAGGTTGAAAGAGATCT
 GAAGAATTCAGAGCCTGTCTCTGAGCTCCAAACCAAAGGGAAGAGGATGGTTATTGAAGAAGTTGAAAC
 TCGGGAGATGAAGGTGAAAAGGGAAGCGCAGATGAGCGTGAAGATGGTGGCTCGGATGAGCGGCCATGG
 GCAACATTCAGAAGAAGCTGATGGTCCGCCGGAGCGAGGTTGGCAGGCGGTCCGCGCGGGCCGACACC
 GGGGCCCCGAGCTGAGCAGCAGGAGGCCCTGCGAGAGACAGCAGCGGCCAGCACCGCGACAGTCACTAC
 CCGGAGGAGCCGCGAGCCGCTGACAACCCAGCGCCTCAAGAGACGGGCAACGAGCTGTTCCGCGCGG
 GGCAATTCGAGAGGCGAGCCGCGCAATACTCGGTGGCGATAGCGCAGCTGGAACCCACAGGAAGTCAAA
 TGCGGATGAGCTAAGCATCTTGTATTCAAATAGAGCGGCATGCTACCTCAAAGAAGGGAAGTGCAGGGAC
 TGCATCCAGGATTGTAACAGGGCTCTGGAACCTCATCCGTTCTCAGTGAAGCCTCTTCTGCGCGGAGCAA
 TGGCCTATGAGACCTTAGAGCAATACAGGAACGCATATGTGGACTATAAAACAGTCTGCAGATAGATTG
 TGGGATCCAGCTGGCGAGCGACAGTGTAAACAGAAATAGCAGCAATCTAACAGAGCTAGATGGATCAAAA
 TGGCGGGAGAGACTGCCACCCATCCCAGCTGTACCCACATCTGAGCCACTGCGAGTTTGGCTCCCTGCTG
 CAGAGACCCAGACCAAGATCCCTGTCCCAACAACTGCATGCCGAGCATCACAGATGAAAAAATGTTTCA
 AGCCCTCAAGGAAGAAGGAAATCAACTGTAAAGGACAAAAATTATAAAGATGCCATTAGTAAATACAAT
 GAATGCTTAAAGATTAACAGCAAGGCATGTGCCATCTATACAAACAGGGCTCTCTGTTACCTGAAGCTGG
 GCCAGTTTGAAGAGGCAAGCTGGACTGTGAGCAGGCGCTTCAGATAGACGGCGAGAATGTGAAAGCCAG
 CCACAGACTAGCGCTCGCCAGAAAGGACTCGAGAAGTCCCGGAAAGCGGGGTGGACCCAGTCAAGTC
 CTCCTAAGCCCAGATTCCAGTGAAGCCGCCCGCACCTGGACACTAAGAATGACACAGCACCTCCAGCA
 AAGGAAGGGAGAGGAGGAGAATCCAAGTCCAAGAGGTGGATGGCAGCAGTGTGAGGAGCCTGAGAGACC
 TGCAGAGGCCTCTGCTACCTCCGACCTGCCAGAGATGGTGTGGAAGATGGAGGGTCTGCAGAACCAGCA
 GAAAAACTCGACGTCTCAAGCCTACTAATGCCTATGAGTTTGGACAGGTCTAAGCACTATCAGTGCCA
 GGAAGATGAAGAGGCTGTGCACATCTTTTAGCCATCACTGCACCCAAAGACCTGCCACTGTTGCTAAG
 TAACAACTTGAGGGGGACAGTTCCTCCTCCTCATTGATCACTTAAAAGTCACTTGTGGCTAAAGAC
 CCCTCCCTGGTGTATGAGCATCTCTGTATCTGAGCAAAGCAGAGAGTTTAAAGACGATGCTGACACTAA
 TTAACAAAGGCCAAAAGGAGCAGATGGCGCAGCTGTTTGTGATGCTGTGACACACAGTCCGACGGTTT
 GACGGCAGAGGATGTACAGGCCCTAAGAAGGCAGTATGAGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG211105 representing NM_012031
 Red=Cloning site Green=Tags(s)

MTAKAKDCPSLWFGGTTKFKIPIEHLDFKYIENCSDVKHLEKILYVLRSGEEGYYPTELTEFCEKCLTNL
 APKSRALRKDKPAETASSFSAEEWEKIDSDLKSWVSEIKREENTCHFDPENHPGVEDPLPPVVGSTCCP
 HSGKETYSKSKTAKKRIPRDYAEWDKFDVEKECSKIDEDYKEKTVINNAHL SKIETKIETAGL TEKEKS
 FLANREKGGNEAFYSGDYEEAVMYITRSL SALPTAIA YNNRAQAEIKLQRWSSALEDC EKALELDPGNV
 KALLRRATTYKHQNKLQEAVDDLKRVLQVEPDNDLAKKTLSEVERDLKNSEPVSELQTKGKRMVIEEVEN
 SGDEGGKGSADEREDGGSDAAMGNIQKMLMVRSEGGRRSRRGRTPGPRAEQQGLRETATASTGDSHY
 PEEPRAADNPSGLKRRGNELFRGGQFAEAAAQYSVAIAQLEPTGSANADELSILYSNRAACYLKEGNCRD
 CIQDCNRAL E LHPFSVKPLLRRAMAYETLEQYRNAYVDYKTVLQIDCGIQLASDSANRIARILTELDGSK
 WRERLPPIPAVPTSEPLRVWLPAAETPDQDPCPNNCMP SITDEKMFQALKEEGNQLVKDKNYKDAISKYN
 ECLKINSKACAIYTNRALCYLKLQGFEEAKLDCEQALQIDGENVKASHRLALAQGLENCRESGVDP SQV
 LLSPDSSEAAARHLDTKNDTAPPSKGRERRRIQVQVEVDGSSDEEPPERPAEASATSAPARDGVEDGGS AEP
 EKLDVSKPTNAYEFQVLS TISARKDEEACAHLLAITAPKDLPLLLSNKLEGDTFLLLIQSLKSHLVAKD
 PSLVYEHLLYLSKAERFKTMLTLINKGQKEQMAQLFDGLSDTQSDGLTAEDVQALRRQYEL

TRTRPLE - GFP Tag - V

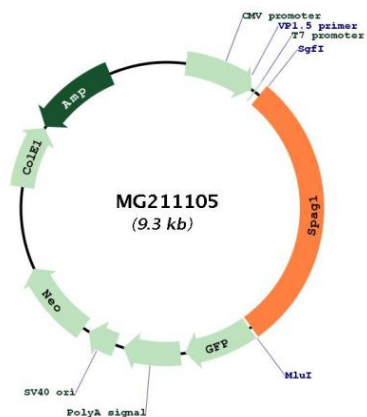
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_012031
ORF Size:	2703 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_012031.4
RefSeq Size:	3270 bp
RefSeq ORF:	2706 bp
Locus ID:	26942
UniProt ID:	Q80ZX8
Cytogenetics:	15 B3.1
Gene Summary:	May play a role in the cytoplasmic assembly of the ciliary dynein arms (By similarity). May play a role in fertilization. Binds GTP and has GTPase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211105