OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC308355

SPAG17 (NM_206996) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPAG17 (NM_206996) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPAG17
Synonyms:	CT143; PF6; SPGF55
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC308355 representing NM_206996.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCACCCAAGAAGGAGAAAGGAGGAACTGTGAACACCAGTTCTAAGATATGGGAACCCTCGCTCATA
GCTGCACAGTTCAATCAGAACGATTGGCAGGCCTCCATTGCTTTTGTGGTTGGGAACCAGATTGAAGAT
GATCTTCTCATCCAAGCCCTTACCGTGGCTGTCCAGGTCCCTCAGCGTAAACTCTTCAGTATGGTGTCG
TGGCAAGACATTCTCCAGCAGATTAATGAAATAAATACACTTGTTGGATCTGCTTCATCTAAAAAGGCA
AAAAAACCTGTAGGTGGTAATGCTCCTTTATATTATGAGGTGTTAACGGCAGCAAAAGCAATTATGGAT
AGTGGAGAGAAATTAACCTTACCACTGATAGGGAAACTCTTGAAATTTCAACTTCTCCAGATTAAATTT
AAGGACCAACAGCGACGGGAAAATGAAAAGAAGGTAATAGAAGACAAACCTAAGTTAGAAAAGGATAAA
GGGAAAGCAAAATCTCCCAAGGAGAAAAAGGCTCCAAGTGCCAAGCCTGCCAAAGGAAAGGGAAAGGAT
CAGCCTGAGGCAAATGCACCAGTGAAAAAGACCACCCAGTTAAAGCGGAGAGGAGAAGACGACCACACC
AATCGTTACATTGACGATGAGCCAGATGATGGTGCCCAACATTACATTATAGTTGTGGGCTTTAACAAT
CCTCAGCTATTAGCAATTATGGCTGAGCTTGGCATTCCTATAACCAGCGTGATTAAAATATCTTCAGAG
AATTATGAACCTCTGCAGACACACCTGGCAGCAGTTAACCAGCAGCAGGAAGTTCTTCTTCAGTCAGAA
GATCTAGAAGCAGAAAAATTGAAGAAAGAAAATGCCATAAAAGAGCTTAAAACTTTCTGGAAGTACTTG
GAACCAGTCCTGAATAATGAGAAACCTGAAACAAATCTCTTTGATGTTGCTCGACTTGAGTACATGGTC
AAAGCAGCTGATTTTCCTTCTGACTGGTCAGATGGTGAGATGATGCTGAAATTGGGCACTGATATTTTT
GAAAATATTGCCTGCTTGATGTATGACATCCTGGATTGGAAAAGGCAGCACCAGCACTATTTGGAAAGC
ATGCAGCTTATTAATGTTCCACAAGTGGTTAATGAGAAACCTGTATTAGAAGCCATGCCAACTTCAGAG
GCTCCACAACCTGCTGTACCAGCTCCTGGAAAGAAGAAAGCACAGTATGAAGAACCGCAAGCTCCACCA
CCAGTGACTTCAGTCATCACAACTGAAGTAGACATGAGATATTACAATTATTTGCTGAATCCAATTCGA
GAGGAATTCATTTCTGTGCCCCTGATACTGCATTGTATGCTGGAACAGGTTGTTGCAACTGAAGAAGAT
CTCGTCCCACCCAGTCTGCGGGAGCCATCCCCCAGAGCAGACGGGCTAGACCACAGAATCGCAGCTCAC
ATTGTGTCCCTTCTGCCCTCACTCTGTCTCTCAGAGAGGGAGAAAAAGAATCTTCATGACATATTTTTA

View online »

TCTGAAGAAGAAAATGAAAGCAAAGCAGTGCCCAAAGGCCCCCTCCTACTGAACTATCATGATGCACAC
GCCCACAAGAAGTACGCACTACAGGACCAAAAGAATTTTGATCCAGTTCAAATTGAGCAGGAGATGCAG
TCCAAGTTGCCACTGTGGGAATTTCTTCAATTCCCTCTACCCCCACCATGGAACAACACTAAACGTCTA
GCTACAATTCATGAGCTTATGCACTTTTGTACGAGTGATGTCTTGAGCTGGAATGAAGTAGAACGAGCC
TTCAAGGTGTTTACTTTTGAGAGCCTGAAGCTCTCTGAGGTTGATGAAAAAGGGAAACTGAAACCTTCT
GGGATGATGTGTGGGTCAGATTCTGAAATGTTCAACATACCGTGGGACAACCCTGCCAGATTTGCTAAA
CAGATAAGGCAGCAATATGTCATGAAAATGAATACTCAAGAGGCCAAGCAGAAAGCAGATATTAAAATC
AAAGACAGAACACTATTTGTGGATCAGAATTTGTCAATGTCTGTGCAAGATAATGAAAGCAACCGAGAA
CCTTCAGATCCTAGTCAGTGTGATGCTAACAATATGAAGCATTCTGACTTGAATAATCTCAAACTCTCA
GTCCCTGATAATAGACAGCTGTTAGAGCAGGAGAGCATCATGAAGGCTCAGCCCCAACATGAGTCTCTG
GAGCAGACCACAAACAATGAGATCAAAGATGATGCAGTCACAAAGGCTGATTCTCATGAAAAGAAACCC
AAGAAGATGATGGTGGAAGCAGATTTAGAGGACATAAAGAAAACACAGCAGCGCAGTCTAATGGACTGG
AGTTTTACTGAACATTTTAAACCGAAAGTACTGCTTCAGGTCCTTCAAGAAGCCCATAAGCAATATAGG
TGTGTTGATTCTTACTACCACACCCAAGACAACTCTTTACTTTTAGTCTTTCACAATCCAATGAATAGA
CAACGTTTGCATTGTGAATATTGGAACATTGCTCTCCACTCCAATGTTGGATTCAGGAATTATTTGGAA
CTTGTTGCAAAATCTATTCAAGATTGGATTACAAAAGAAGAAGCTATATATCAGGAATCTAAAATGAAT
GAGAAAATCATCAGGACCAGAGCTGAGCTGGAATTGAAATCTTCTGCTAATGCCAAACTTACTTCTGCT
AGCAAAATTTTTTCCATTAAAGAATCTAAAAGTAACAAAGGAATCAGCAAAACAGAGATATCAGATCAA
GAAAAAGAAAAAGAGAAGGAAAAGATTCCTTTCATTTTAGAAGGCTCTCTCAAGGCATGGAAAGAAGAG
CAACATCGATTAGCAGAAGAGGAGCGCTTAAGGGAAGAAAAGAAAGCAGAGAAGAAGGGTAAAGAAGCT
GGTAAAAAGAAAGGCAAGGATAACGCAGAGAAAGAGGATAGTAGGTCTTTGAAGAAAAAATCACCTTAC
AAGGAGAAATCTAAAGAAGAACAAGTCAAGATCCAAGAAGTAACAGAAGAGTCCCCCCACCAACCAGAA
CCTAAGATAACTTACCCGTTTCACGGATACAATATGGGAAATATACCCACTCAAATCTCAGGGTCAAAT
TACTACCTGTATCCTTCTGATGGGGGGCAGATTGAAGTGGAAAAGACAATGTTTGAAAAAGGCCCAACT
TTTATCAAAGTGAGAGTGGTAAAGGACAACCACAATTTTATGATTCATTTAAATGACCCTAAGGAAATT
GTGAAAAAGGAAGAGAAAGGGGATTATTATTTAGAAGAGGAAGAAGAAGGAGATGAGGAACAAAGTCTT
GAAACGGAAGTATCAGATGCAAAGAATAAAGCTTTCAGCAAGTTTGGATCTTTTTCTGCCACCTTAGAA
AATGGAATCTGCCTCTCGATAAGTTACTATGGATCAAATGGAATGGCACCAGAAGATAAGGATCCTGAT
TTAGAAACAATATTGAATATCCCTTCAGCACTCACTCCAACAGTGGTTCCTGTTATAGTGACCGTTCCT
CAAAGCAAAGCTAAAGGGAAAATAAAAGGCAAAGAAAAACCCAAAGAATCCCTTAAAGAAGAAGAACAC
CCAAAAGAAGAAGAGAAAAAGGAAGAAGAAGTAGAACCAGAACCTGTTTTACAAGAGACTTTGGATGTT
CCCACCTTCCAGAGCCTAAATGTGTCTTGCCCCAGTGGGCTCCTGTTGACTTTCATTGGACAAGAATCT
ACAGGTCAATATGTTATAGATGAGGAACCCACCTGGGACATCATGGTCCGTCAGAGCTACCCCCAGAGG
GTGAAGCACTATGAGTTCTATAAAACGGTGATGCCACCCGCAGAGCAGGAGGCTTCAAGGGTTATCACC
AGTCAAGGCACTGTTGTCAAATATATGTTGGATGGATCCACACAGATTCTCTTTGCAGATGGTGCTGTG
AGCAGGAGTCCCAATTCAGGTCTTATTTGTCCTCCTTCTGAAATGCCAGCAACGCCTCACAGTGGAGAT
TTGATGGACTCTATTTCTCAGCAGAAATCAGAAACGATACCATCTGAGATTACCAACACAAAGAAAGGA
AAAAGTCACAAAAGTCAGTCATCAATGGCCCATAAGGGTGAAATCCATGACCCTCCTCCAGAGGCAGTT
CAAACTGTAACTCCTGTGGAGGTTCACATAGGCACCTGGTTTACAACCACACCTGAAGGAAATCGGATC
GGCACCAAAGGATTAGAAAGAATAGCAGACTTGACCCCATTGTTATCCTTTCAGGCCACAGATCCTGTC
AATGGAACGGTTATGACAACTCGAGAAGACAAAGTTGTCATAGTTGAAAGGAAAGATGGTACTCGGATA
GTGGATCATGCTGATGGTACCAGAATCACAACCTTTTATCAAGTTTATGAAGATCAAATTATTCTGCCA
GATGATCAAGAAACAACCGAGGGTCCTCGGACTGTCACCAGGCAGGTGAAGTGTATGCGGGTAGAAAGC
TCACGCTATGCCACTGTTATCGCCAACTGTGAGGACAGTAGCTGCTGTGCCACCTTTGGAGATGGAACA
ACTATTATTGCAAAGCCACAGGGAACATACCAGGTGTTACCTCCAAACACAGGCTCTCTTTATATTGAC
AAGGATTGTTCAGCTGTGTACTGCCATGAGTCAAGCAGTAATATATACTATCCTTTTCAAAAGCGTGAG
CAGCTGCGAGCTGGCAGGTACATCATGAGGCATACTTCAGAGGTTATCTGTGAGGTTCTGGATCCTGAG
GGAAACACTTTTCAGGTCATGGCTGATGGTAGCATATCAACTATATTACCTGAAAAAAAATTGGAAGAT
GATTTAAATGAGAAAACTGAGGGCTATGATAGTCTGTCCTCTATGCACCTTGAAAAGAATCATCAGCAA
ATCTATGGTGAACATGTCCCCAGGTTTTTTGTTATGTATGCTGATGGATCAGGAATGGAACTTCTTCGA
GACAGTGACATAGAAGAATATCTATCTTTGGCATATAAAGAATCAAATACTGTTGTTCTCCAAGAGCCA
GTGCAGGAACAGCCAGGCACCCTAACCATCACAGTCCTTCGCCCTTTCCATGAAGCATCACCATGGCAA

GTAAAAAAGGAAGATACAATTGTCCCTCCTAATCTCCGGTCAAGGTCATGGGAAACATTTCCCTCAGTT
GAGAAAAAAACTCCAGGACCTCCGTTTGGTACTCAGATTTGGAAAGGCCTTTGCATTGAGTCCAAACAG
CTAGTGAGTGCCCCGGGTGCCATACTCAAGAGCCCCAGTGTGCTACAGATGCGCCAATTCATTCAGCAT
GAGGTCATAAAGAATGAGGTGAAACTGAGGCTGCAGGTTTCCCTTAAGGATTACATAAACTATATTCTA
AAGAAAGAAGATGAGCTGCAGGAAATGATGGTTAAAGATTCCAGAACTGAGGAGGAGAGAGGCAATGCT
GCTGATCTCCTCAAGCTGGTTATGTCTTTCCCTAAAATGGAGGAAACTACAAAAAGTCATGTTACTGAA
GTTGCAGCTCACCTAACTGATTTATTCAAGCAGTCTTTGGCTACGCCTCCAAAATGCCCACCAGACACA
TTTGGTAAAGATTTCTTTGAAAAGACATGGAGACACACAGCATCCTCAAAACGCTGGAAAGAAAAGATA
GACAAAACGAGGAAGGAAATTGAGACAACACAGAATTACCTAATGGATATTAAGAACCGCATAATACCA
CCCTTTTTTAAATCTGAATTGAACCAGTTATATCAGTCTCAGTATAATCACCTGGACAGTCTTTCCAAA
AAACTGCCTTCTTTTACAAAGAAAAATGAAGATGCAAACGAAACAGCTGTTCAAGATACATCTGATCTT
AATCTAGATTTCAAGCCACATAAGGTTTCAGAACAGAAATCCTCAAGTGTGCCTAGTCTTCCAAAACCA
GAGATTTCTGCAGATAAGAAGGATTTCACTGCTCAGAACCAAACTGAAAATTTAACAAAATCTCCTGAA
GAAGCAGAATCTTATGAGCCCGTGAAAATTCCAACCCAGTCCTTGCTGCAGGATGTTGCGGGACAAACA
AGAAAAGAAAAAGTGAAGTTGCCTCATTATTTGCTGAGTTCCAAGCCTAAGTCTCAACCTCTTGCAAAG
GTGCAAGATTCTGTTGGAGGAAAAGTGAACACATCCTCTGTTGCATCTGCTGCCATTAATAATGCAAAG
TCATCCCTTTTTGGGTTCCATCTTCTCCCATCATCAGTCAAGTTTGGAGTGCTTAAGGAAGGACATACC
TATGCCACAGTTGTAAAGCTCAAGAATGTTGGAGTGGACTTCTGCAGGTTTAAAGTAAAGCAGCCCCCA
CCCAGCACAGGACTGAAAGTGACTTACAAACCTGGACCTGTGGCAGCTGGTATGCAGACAGAACTGAAT
ATAGAGTTATTTGCCACAGCTGTTGGAGAGGATGGGGCCAAGGGATCAGCACACATCTCTCACAATATC
GAGATTATGACAGAGCATGAGGTTCTGTTCCTACCTGTGGAAGCAACTGTTTTAACAAGCAGCAATTAT
GATAAACGACCAAAAGACTTTCCCCAGGGAAAAGAAAATCCAATGGTCCAGAGAACTTCTACAATTTAT
TCCTCCACACTTGGAGTCTTCATGTCTCGTAAAGTTTCTCCACATTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_206996

Insert Size: 6672 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_206996.2
RefSeq Size:	7125 bp
RefSeq ORF:	6672 bp
Locus ID:	200162
UniProt ID:	Q6Q759
Cytogenetics:	1p12
MW:	251.7 kDa
Gene Summary:	This gene encodes a central pair protein present in the axonemes of cells with a "9 + 2" organization of microtubules. The encoded protein is required for the proper function of the axoneme. Mutations in the orthologous gene in mice lead to primary ciliary dyskinesia characterized by immotile nasal and tracheal cilia, reduced clearance of nasal mucus, profound respiratory distress, hydrocephalus, and neonatal lethality within twelve hours of birth due to impaired airway mucociliary clearance. Single-nucleotide polymorphisms in this gene are associated with human height and targeted mutations lead to skeletal malformations affecting the limbs in mice, suggesting a role for this gene in skeletal development. [provided by RefSeq, Feb 2017]