

Product datasheet for **MR218585**

Spata6 (NM_026470) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata6 (NM_026470) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spata6
Synonyms:	1700062C23Rik; AI790763; Hash; KRP; Mash
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218585 representing NM_026470
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGAAGTGAAGGCGCTGCAATGCGCCTGGCGCTGGAGATCCGCTCTGTAACCTGTCCAGGAGTGG
 TGCTGAAAGACAAGGAGGACATCTATCTTAGTATCTGTGTGTTTGGCCAATACAAAAAGACACAATGTGT
 CCCAGCCACTTTTCCCCTGGTCTTCAATGCCAGAATGGTGTGTTGAAAAGGTGTTCCCGGAAGCAGTAGAC
 CCTGGAGATGTGGTCGCACAGCTTGAGTATGATACAGCAGTGTGTTGAGTTGATACAGCTAGTTCACCCAG
 TGGGAGAAACTGTCTACCTATGATGAAAATACACGAGATTTTCATGTTCCCGGGTCCAAACCAATGTC
 TGGACACCATGATTCAAACCGCCAGGTTACCATGAGGAGGATTTCTGGCCTAAGAGGAATTGCTCCAAAG
 CTGGAATTTTCTACAACCTCAGTGATCACTGAATGTCTGATAAGCTCAAGGAAGTCCCGCACTCAGGATA
 AATTTACTTACCATTAGCTCCAGTTGAAAATCCCACGGCAGACTGCAATGCAGAACATCAAGATCACA
 GAAGAAAAGTCCAAGTACCCGAGAGGAGTAAATATTGCATAAACACCAAGAAGTACGAACAGCCTACG
 ATTTCTCAAAGTCACTCTCCATCTCCCTACACAAAAGACGGATGTGTGAGCTTTCCGAAAGACTC
 GGCGGCGCTGGCCCATTTAAATCTGGGACCCTATGAATTCAAAAAGGAAACAGATAAGCCTCCATTTGT
 GATTAGACATGTTGATCCCCGAGTCCCAGAAGTACAATTTTTTTGGATCACCTGGCAGAGACTGTGAA
 CGAGATGGATGGGTGAGGATGCACAGCGATCATCCTCATATTGGCTGCTGCAGATCCAAGGACTACAAGG
 TTATCAGGTCACCACATGGGAGAGACTTTGAGGATCCCTTTGAAAGGTGTGAGGAATATTTGAGCCCAAG
 GACATGTAGCAAGCCCCAGCATTCTGCAAGGACCTTACTAGTCCATTAGCACCTTCAACAACACCAAG
 CATTGTGCAAGCCCTGTGCTAAATAGAGCCTCTCTCAGGAAAGATTCCACTCTGATTGGTGTTCACCTC
 CGAATCTGTGATGAGATCCATGACCGGGTAAAAGATGTCTTGAAATCACATCAAGCTCATGCAAGACATTT
 ATGTGATGAGAGAGACCCAGAGAGAGAAGACGAACTGGAAGTAAAAGAGTCTTTTATATAGAGACTCT
 GCTTATGACAGTGACCTGAGTATAGCTCTTTACGCGCCGCTGGCTCTTTCCATTTGGATGATGGCG
 AATGCTGGTCCAACAGAGCAGCCTCTTGTAAAGGAAAATCCCACCGACCCGTCTTTGAGAACAGCATGGA
 CAAGATGTACAGGAAGTATACAAAAAGCCTGTAGTTCTGTTTCTACACAGGAAAGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218585 representing NM_026470
 Red=Cloning site Green=Tags(s)

MPKVKALQCALALEIRSVTCPGVVLKDKEDIYLSICVFGQYKKTQCVPATFPLVFNARMVFEKVFPEAVD
 PGDVVAQLEYDTAVFELIQLVPPVGETLSTYDENTRDFMFPGNQMSGHHSNRQVTMRRISGLRGIAPK
 LEFSTTSVITECLISSRKRTQDKFTYHSAPVEKSHGRLQCRTSRSQKKKSKSPERSKYCINTKNYEQPT
 ISSKSHSPSPYTKRRMCELSSETRRRRLAHLNLGPYEFKKEIDKPPFVIRHVDPPSPRTDNFFGSPGRDCE
 RDGWWRMHSDFPHIGCCRSKDYKVIKSPHGRDFEDPFCERCEYLSPRTCSKPQHSARTLLVHSAPSTTPK
 HCASPVLNRAASLRERFHSWCSPPNCDEIHDRVKDVLKSHQAHARHLCDERDPEREDELELKRSLLYRDS
 AYDSDPEYSSFQRPRGSFHLDDGECWSNRAASCKGKSHRPVFENSMDKMYRNLYKKACSSVSHTQESF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9006_f01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_026470

ORF Size: 1464 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:**
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_026470.3](#), [NP_080746.3](#)

RefSeq Size: 2454 bp

RefSeq ORF: 1467 bp

Locus ID: 67946

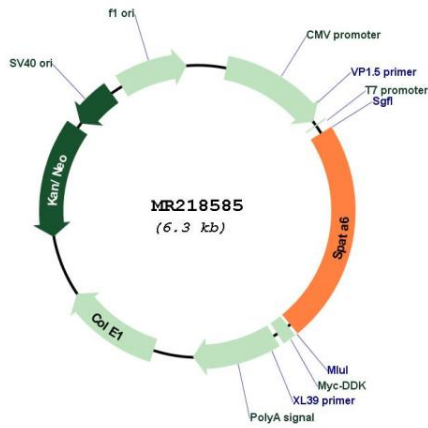
UniProt ID: [Q3U6K5](#)

Cytogenetics: 4 D1

MW: 56.6 kDa

Gene Summary: Required for formation of the sperm connecting piece during spermiogenesis. Sperm connecting piece is essential for linking the developing flagellum to the head during late spermiogenesis (PubMed:12771232, PubMed:25605924). May be involved in myosin-based microfilament transport through interaction with myosin subunits (PubMed:25605924). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218585