

Product datasheet for **MG218304**

Spata5 (NM_021343) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata5 (NM_021343) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spata5
Synonyms:	2510048F20Rik; C78064; Spaf
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218304 representing NM_021343
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTTCCAAGAAGAACCAGAAAGCGGCAGAAAGGAGGGCGCGGAGGGCGCCTCGCCCTCGCTCTCTGCGG
 CTCGGTCCCGCTCAGGGACCTCGACTCCTTTCCGCCAGCCGAGCCGCGGCGCCGGGGATGCTGGTGGT
 GACCAACTTCCTTGAGAAAGTAGATGGCAAAGTTCCTAAGACATTCCAGAATTCCTTGTTCATCTTGGA
 CTTAACTATGAAGTCTGCAAACATATGTATAGGTGCGCCAGTCTCTTACCAGTTTGGATGGAAAGC
 AGGAGGTTTATACAGCCTGGCCAGTTGCAGGATTTCTGGAGGCAAGGTTGGCCTGAGTGAATGGCACA
 GAAGAATGTGGGTGTGAGAGCTGGTGGACCATCCAGTCCAGCCTCTTTTGGGTGCTGTGCTTCAGGCT
 CAGGAAATGGACTTGGCGCTGAGTGACAAAGATAAGGAAATTAATGAAGAAGAACTGACTGGTTGTATTC
 TGAGAAAAGTATAGTGGCAAGATTGTTTTACCAGGCAACTTCTATACTGTACATTCTATGGACGACTCTG
 CAAGTTACAAGTGTGCAAGTGAAGGGACAGATGGCACAACATTGGGAAAGCCTCAGAGTGCCTCTGGC
 ACTGATGCCAGGGAATGGCCTCTGAACATTCTAGCATGGAAAACAGCGATGTGGATCTATCCTTCCAGC
 TAAGCCAGTTAGATCTGAAAGAACCCTCAGAGCCCATCATCACAGAGTACTCCCTGTAACCCTCAATGA
 CAGAACTGTGAATAAAGCTGGTGAAGTTTTGTTGGATGTCACACAGAGCCCTAGGGATGGAAGTGGACTT
 GGACTAGAGGAAAGCACAGGCTTAAGTGTAGTTTTGACTCATCAAAGAAGGAAATACACAACCTGTCA
 GTGAAGAGAACTACTAAAACCTGCTAGTGCAGGGACAAAGAGCAATACTGATACTTTTTATTTATTTTC
 TTCAACAACAAGAATCAATCTTCGAAAAATTTGTACAAATTCAAAAGAACAAGACAGTCAGTTCAAAGTA
 ACTTATGACATGATTGGAGGCTTAAACAGTCAGCTGAAAGCAATAAGAGAAATAATTGAATTGCCTCTCA
 AGCAGCCTGAACCTTTCAAGAGTTACGGAATCCAGCGCCTAGAGGGTTATTACTCTATGCTCCTCCAGG
 TACCGGAAAGACAATGATTGCTAGGGCTGTTGCTAATGAAGTTGGAGCTTATGTTTCTGTAATTAATGGT
 CCTGAAATTATAAGCAAATCTACGGTGGAGTGAAGCAAGGTTACGCCAGATATTTGCTGAAGCTACTC
 TACGACACCCATCAATTATTTTATTGATGAAGTGGATGCACTTTGCCCTAAAAGAGAAGGAGCTCAGAG
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 GATTTGATAAAGAGATTGAGATTGGCATTCTAATGCCCAAGACCGGCTTGATATTCTCCAGAACTACT
 CCGAAGGGTGCCACATTTGCTCACTAAAGCTGAGCTTCTGAGGTTGGCAAATAATGCCCATGTTATGTT
 GGCGCAGACTTGAAGCGTTGTGTAATGAGGCAGGCTGTCATGCCTTGGCAAGAGTCTGAGGAAACAGC
 CTAACCTCCCTGATAGCAAGGTGGCTGGCATGGTGAAGATTACTCTAAATGATTTCTACAGGGGATGAA
 TGACATCAGGCCTAGTGCTATGAGAGAGGTAGCAATTGATGTCCCAAATGTTTCTGGTCAGATATTGGA
 GGACTGGAAAATATCAAACCTGAAATTGAAACAGGCTGTGGAATGGCCCTTAAAACATCCTAAGTCTTTCA
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 GCTACTAATCGCCAGATAGAATAGACAAGGCTTTGATGAGGCCTGGAAGAATTGACAGGATCATTATG
 TGCCCTTACCGGATGCAGCAACCAGAAGGAAATACTGAACCTGCAGTTCCTCACTCAATGCCGATCAGTAA
 CGAGGTTGATCTGGATGAACTTGTCTCCTCAAACTGACACCTACTCAGGAGCAGAGATCATAGCAGTCTGC
 AAGGAGGCGGCTCTCCTAGCTCTGGAAGAAAACATTAAGCTGACTGCATTATGAAGAGGCATTTCACTG
 AAGCCTTGAGCATTGTGACACCCAGGATCCAGAGTCACTGAGACGCTTTTATGAAGATTACCAAGAAAA
 GAGTGGACTACACACAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG218304 representing NM_021343
 Red=Cloning site Green=Tags(s)

MSSKKNRKRQKEGASPSLSAAPSRSGTSTPFAQPSPAAPGMLVVTNFLEKVDGKVPKTFQNSLVHLG
 LNTMKSANICIGRPVLLTSLDGKQEVYTAWPVAGFPGGKVLSEMAQKNVGRAGETIQVQPLLGAVLQA
 QEMDLALSDKDKEINEEELTGCILRKLKGKIVLPGNFLYCTFFYGRCLKLQVLQVKGTDGTTLGKQPSASG
 TDAQGMASEHSSMENSVDLQSFQLSQLDLKEPQSPSSQSTPCKPTNDRTVKNKAGEVLLDVTQSPRDGSG
 GLEESTGLKCSFDSSKEGNTQPVSEEKLLKPASAGTKSNTDTFYFISSTTRINLRKICTNSKEQDSQFKV
 TYDMIGGLNSQLKAIREIIEPLKQPELFSYGIPAPRGLLLYGPPGTGKTMIAARAVANEVAYVSVING
 PEIISKFYGETEARLRQIFAATLRHPSIIFIDELDALCPKREGAQSEVEKRVVASLLTLMDGIGSEGSE
 GRVVLVGGATNRPQALDAALRRPGRFDKEIEIGIPNAQDRDLILQKLLRRVPHLLTKAELLRLANNAHGYV
 GADLKALCNEAGLHALRRVLRKQPNLPDSKVAGMVKITLNDFLQGMNDIRPSAMREVAIDVNVSWSDIG
 GLENIKLKLKQAVEWPLKHPKSFNRMGIQPPKGVLLYGPPGCSKTMIAKALANESGLNFLAIKGPPELMNK
 YVGESERAVREIFRKARAVAPSIIFDELDAVERGSSSGAGNVADRVLQQLTEMDGIEQLKNVTVLA
 ATNRPDRIDKALMRPGRIDRIIYVPLPDAATREILNLQFHSMPISNEVDLDELVLQTDITYSGAEIIAVC
 KEAALLALEENIKADCIMKRHFTEALSIVTPRIPESLRRFYEDYQEKSGLHTV

TRTRPLE - GFP Tag - V

Restriction Sites:

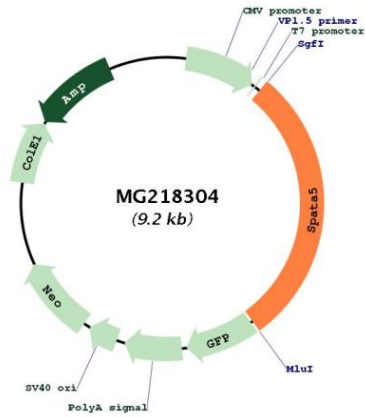
SgfI-MluI

Cloning Scheme:



ACCN:	NM_021343
ORF Size:	2676 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_021343.2 , NP_067318.2
RefSeq Size:	2907 bp
RefSeq ORF:	2679 bp
Locus ID:	57815
UniProt ID:	Q3UMC0
Cytogenetics:	3 B
Gene Summary:	ATP-dependent chaperone which uses the energy provided by ATP hydrolysis to generate mechanical force to disassemble protein complexes (By similarity). May be involved in morphological and functional mitochondrial transformations during spermatogenesis (PubMed:10734318).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218304