

Product datasheet for **RC211834**

SPATA5 (NM_145207) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA5 (NM_145207) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SPATA5
Synonyms:	AFG2; EHLMRS; SPAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC211834 representing NM_145207
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTCCAAGAAGAATAGAAAGCGGTTGAACCAAAGCGGAAAATGGTTCGTCCTTGCCTCTGCTG
CTTCTCTTGTGCGGAGGCACGGCTCCTTCTGCTGGATCAGACTTCGCGCAACCTCCGGACTCTGAC
GGTGACCAACTTATTAGAAAAGGTAGATGACAAAATTCCTAAAACATTCCAGAATTCCTTATTCATCTT
GGACTCAACACTATGAAGTCTGCAAATATATGTATAGGTCGACCAGTGTTGCTTACTAGTTTGAACGGAA
AGCAAGAGGTGTATACAGCCTGGCTATGGCAGGATTTCTGGAGGCAAGGTCGGCTGAGTGAAATGGC
ACAGAAAATGTGGGTGTGAGGCCTGGTATGCCATCCAGGTCAGCCTTGTGGGTGCTGTGCTACAG
GCTGAGGAAATGGATGTGGCACTGAGTGACAAAGATATGGAAATTAATGAAGAAGAAGTACTGTTGTA
TCCTGAGAAAAGTATAGTGGCAAGATTGTTTACCAGGCAACTTTCTGTATTGTACATTCTATGGACGACC
GTACAAGCTGCAAGTATTGCGAGTGAAAGGGGCAGATGGCATGATATTGGGAGGGCCTCAGAGTGACTCT
GACACTGATGCCCAAAGAATGGCCTTTGAACAGTCCAGCATGGAACACAGTAGCCTGGAGTTATCCTTAC
AGCTAAGCCAGTTAGATCTGGAGGATACCCAGATCCCAACATCAAGAAGTACTCCTTATAAACCAATTGA
TGACAGAATTACAAAATAAGCCAGTGATGTTTTGCTGGATGTTACACAGAGCCCTGGAGATGGCAGTGGA
CTTATGCTAGAGGAAGTCACAGGCTTAAATGTAATTTGAACTGCCAGAGAAGGAAATGAGCAACTTA
CTGAAGAAGAGAGACTGCTAAAGTTCAGCATAGGAGCAAAGTGAATACTGATACTTTTTATTTTATTTTC
TTCAACAACAAGAGTCAATTTTACAGAGATTGATAAAAATTCAAAAGAGCAAGACAACCAATTCAAAGTA
ACTTATGACATGATAGGAGGATTAAGTAGCCAGCTGAAAGCAATTAGAGAAATAATTGAATTTGCCCTCA
AACAGCCTGAGCTTTTCAAGATTATGGAATTCCTGCCCTAGAGGAGTGTTACTTTATGGTCTCCAGG
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CCTGAAATTATAAGCAAATCTATGCTGAGACTGAAGCAAAGTTACGTCAGATATTTGCTGAAGCCACTC
TACGACACCCATCAATTTATTTTATTTGATGAGCTGGATGCACTTTGTCCGAAAAGAGAGGGGGCCAGAA
TGAAGTGGAAAAAGAGTTGTGGCTTCACTCTTAACACTGATGGATGGCATTGGTTTCAAGAAGTAAGTGA
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GATTTGATAAAGAGATTGAGATTGGAGTCCCAATGCTCAGGACCGGCTAGATATTTCCAGAAACTGCT
TCGAAGGGTACCCATTTGCTCACTGAGGCTGAGCTGCTGCAGCTGGCAAATAGTCTCATGGATACGTT
GGAGCAGACTTGAAGTCTTGTGTAATGAAGCAGTCTCTGTGCCTTGGGAGAATCCTGAAAAACAGC
CTAACCTCCCTGATGTAAGGTGGCTGGACTGGTGAAGATTAAGTCTGAAGGATTTCTTGCAGGCAATGAA
TGATATCAGACCCAGTGCCATGAGGGAAATAGCAATTGATGTCCCAAATGTATCCTGGTCAGATATAGGA
GGACTGGAAAAGTATCAAAGTGAAGTTGGAACAGGCTGTGGAATGGCCCTAAAACATCCAGAGTCTTTCA
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TGCCCTTACCAGGATGCAGCAACAAGAAGGGAAATATTTAAGCTGCAGTTTCACTCCATGCCTGTGAGTAA
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AGGCCTTGAGCACTGTGACACCTAGAATTCCTGAGTCATTGAGACGTTTTTATGAAGATTATCAAGAGAA
GAGTGGGCTGCATACACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211834 representing NM_145207
 Red=Cloning site Green=Tags(s)

MSSKKNRRLNQAENGSSLPAASSCAEARAPSAGSDF AATSGTLVTNLLKVDKIPKTFQNSLIHL
 GLNTMKSANICIGRPVLLTSLNGKQEVYAWPMAGFPGGKVGLSEMAQKNVGVPRGDAIQVQPLVGA VLQ
 AEEMDVALSDKMEINEEELTGCILRKLDGKIVLPGNFLYCTFYGRPYKLQVLRVKGADGMILGGPQSDS
 DTDAQRMFAEQSSMETSSLELSQLSQLDLEDQIPTSRSTPYKPIDDRITNKASDVLLDVTQSPGDGSG
 LMLEEVTGLKCNFESAREGNEQLTEEERLLKFSIGAKCNTDTFYFISSTTRVNFTEIDKNSKEQDNQFKV
 TYDMIGGLSSQLKAIREIIEPLKQPELFKSYGIPAPRGVLLYGPPGTGKTMARAVANEV GAYVSVING
 PEIISKFYGETEAKLRQIFA EATLRHPSIIFIDELDALCPKREGAQNEVEKRVVASLLTLMDGIGSEVSE
 GQVVLV GATNRP HALDAALRRPGRFDKEIEIGVNAQDRLDILQKLLRRVPHLLTEAELLQANSAHG YV
 GADLKVLCNEAGLCALRRILKKQPNLPDVKVAGLVKITLKDFLQAMNDIRPSAMREIAIDVPNVSWSDIG
 GLESIKLEQAVEWPLKHPESFIRMGIQPPGVLLYGPPGCSKTMIAKALANESGLNFLAIKGP ELMNK
 YVGESERAVRETRFKARAVAPSIIFDELDAVERGSSLGAGNADRVL AQLLTEM DGIEQLKDVTILA
 ATNRPDRIDKALMRPGRIDRIIYVPLPDAATREIFK LQFHSM PVSNEVDLDELILQTDAYS GAEIVAVC
 REAALLALEEDIQANLIMKRHF TQALSTVTPRIPESLRRFYEDYQEKSGLHTL

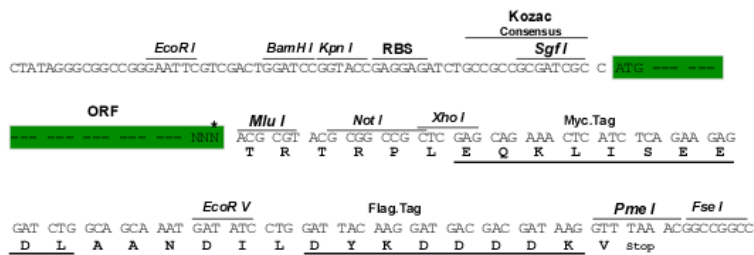
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8025_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

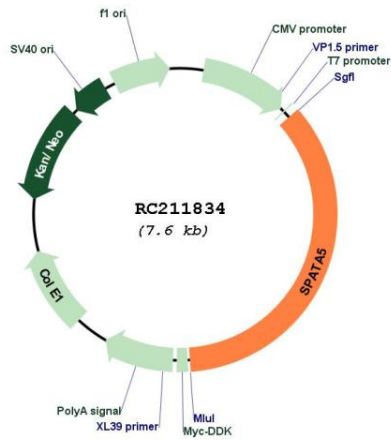


* The last codon before the Stop codon of the ORF

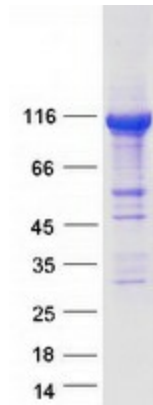
ACCN: NM_145207

ORF Size:	2679 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_145207.3
RefSeq Size:	3359 bp
RefSeq ORF:	2682 bp
Locus ID:	166378
UniProt ID:	Q8NB90
Cytogenetics:	4q28.1
Domains:	AAA
MW:	97.7 kDa
Gene Summary:	This gene encodes a member of the ATPase associated with diverse activities family, whose members are defined by a highly conserved ATPase domain. Members of this family participate in diverse cellular processes that include membrane fusion, DNA replication, microtubule severing, and protein degradation. The protein encoded by this gene has a putative mitochondrial targeting sequence and has been proposed to function in maintenance of mitochondrial function and integrity during mouse spermatogenesis. Allelic variants in this gene have been associated with epilepsy, hearing loss, and cognitive disability syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC211834



Coomassie blue staining of purified SPATA5 protein (Cat# [TP311834]). The protein was produced from HEK293T cells transfected with SPATA5 cDNA clone (Cat# RC211834) using MegaTran 2.0 (Cat# [TT210002]).