

Product datasheet for **SC100139**

SPATA18 (NM_145263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA18 (NM_145263) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPATA18
Synonyms:	Mieap; SPETEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC100139 representing NM_145263.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGAAAACCTGAAAAGACTGGTCTCAAACGAACTTACGAACGTTGCAGGAAAAGCTAGACTTC
TGGTGAAGGAGTACAACACAAACAGTGTGATCAAATCTAAACCATTGCCTTGAACTCATTGAGCAA
GTTGCCAAGGTGCAGGGACAACCTTTGGGATCCTCACAGCAGCAGCCCAAGAAGGAGGACGTAATGAT
GGTGTGGAAACAATCAAGTCACGCCTTTTGCCTTGGCTGGAGGCTTCTTTACTGCTGCTCCCTGGGA
AAATCTGTTGACAGCAAGGTCCCCTCTCTGCAGGACACGTTTGTAGGGAGAGACATAAAGATCCCAGT
CCTCGGGATCGGGATATGCAACAGTTAGACTCTAATTTGAACTCAACCCGGAGTCAATGCAACCAGGTT
CAAGACGATCTGGTTGAAACTGAAAAGAATCTTGAAGAAAGCAAGAACAGATCGGCCATATCCCTTTTG
GCTGCAGAGGAGGAAAATAAATCAGCTGAAAAGCAGCTTAAATCTCTTCAAGCTCAGGAGGATGCCCGC
CACAGAAACACAGATCAGAGGAGCTCAGAGAATAGGCGGTGAGAGCCTTGGAGCTTGAGGAGCGGAAG
CGTGAGCAGTGGAACTCACTCAAGCAGAATGCAGACCAGCAGGACACAGAAGCCATGTCCGATTATAAG
AAACAGCTCCGAAACCTGAAGGAGGAGATAGCTGTTCTGTCTGCTGAGAAAAGTGCCTCAAGGAAGG
TCCTCCAGGAGCCGGTCTCCAGCCCTGCCCTCGCAGCCGTAGCTGCAGCCGCAGCAGATCTGCCAGC
CCCTCCACCGCTGTCAAGGTGAGGAGACCGTCCCCAAACCGCTCCAAGCTGTCCAATGTGGCGCGCAAG
GCTGCCCTCTTGTCCCGTTTCCAGCGATTCTATCCCAGGCCCGCTGGACGCGCAGTGCCTGCTGCGG
CGCTGCATCGACAAGGCTGAGACCGTTCAGCGGATCATCTACATCGCCACAGTGGAGGCATTCCATGTA
GCAAAAATGGCATTTCAGACACTTCAAGATCCATGTGAGAAAATCGTTGACACCATCTTATGTGGGGTCG
AATGACTTTGAGAATGCTGTCTTGGATTATGTCATTTGTCATCTTGATCTATATGATTCTCAAAGCAGT
GTCAATGATGTGATCCGAGCCATGAATGTCAATCCCAAGATTTTCAATCCCTCTGCTGCTGCTTTTGC
CTTCTCAGTGACTTCATCCAGGAGATATGTTGCATTGCCTTTGCAATGCAGGCCTTAGAACCACCCCTA
GATATTGCATATGGAGCAGATGGAGAAGTTTTAATGATTGCAAATACCGCCGCAGCTACGACTCGGAT
TTCAGTCTCCCTTAGTCTCTATCACGTGTGGCTGCTCTCATGGAGAATGACTGTGTCATTATGAAG
GGAGAAGTGTACCAGGAGAGGGGCTTTTTGGAATTCGGTGCATCTGTAAAGTCGTTGTCGAAGCAGG
AGTTTAAGTCCCATTGCCCCGTAGCCAAATTGGTTAAACACGATGTCTCGAAGTCGGAGTCTTCT
CCAATAAGATGTGGATTGCAAGATTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_145263

Insert Size: 1617 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_145263.3
RefSeq Size:	4425 bp
RefSeq ORF:	1617 bp
Locus ID:	132671
UniProt ID:	Q8TC71
Cytogenetics:	4q12
MW:	61.1 kDa
Gene Summary:	This gene encodes a p53-inducible protein that is able to induce lysosome-like organelles within mitochondria that eliminate oxidized mitochondrial proteins, thereby contributing to mitochondrial quality control. Dysregulation of mitochondrial quality control is associated with cancer and degenerative diseases. The encoded protein mediates accumulation of the lysosome-like mitochondrial organelles through interaction with B cell lymphoma 2 interacting protein 3 and B cell lymphoma 2 interacting protein 3 like at the outer mitochondrial membrane, which allows translocation of lysosomal proteins to the mitochondrial matrix from the cytosol. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]