

Product datasheet for **RG205544**

SPATA18 (NM_145263) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA18 (NM_145263) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPATA18
Synonyms:	Mieap; SPETEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205544 representing NM_145263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAAAACCTGAAAAGACTGGTCTCAAACGAAACTTACGAACGTTGCAGGAAAAGCTAGACTTCT
 GGCTGAAGGAGTACAACCAAACACGTGTGATCAAATCTAAACCATTGCCTTGAACCTATTGAGCAAGT
 TGCCAAGGTGCAGGGACAACCTTTGGGATCCTCACAGCAGCAGCCCAAGAAGGAGGACGTAATGATGGT
 GTGAAAACAATCAAGTCACGCCTTTTGCCTGGCTGGAGGCTTCCTTTACTGCTGCTTCCCTGGGAAAAT
 CTGTTGACAGCAAGTCCCCTCTCTGCAGGACACGTTTGTAGGGAGAGACATAAAGATCCCAGTCTCG
 GGATCGGGATATGCAACAGTTAGACTCTAATTTGAACTCAACCCGGAGTCAATGCAACCAGGTTCAAGAC
 GATCTGGTTGAACTGAAAAGAATCTTGAAGAAAGCAAGAACAGATCGGCCATATCCCTTTTGGCTGCAG
 AGGAGGAAATAAATCAGCTGAAAAGCAGCTTAAATCTCTTCAAGCTCAGGAGGATGCCCGCCACAGAAA
 CACAGATCAGAGGAGCTCAGAGAATAGGCGGTGAGAGCCTTGGAGCTTGGAGGAGCGGAAGCGTGAGCAG
 TGGAACTCACTCAAGCAGAAATGCAGACCAGCAGGACACAGAAGCCATGTCCGATTATAAGAAACAGCTCC
 GAAACCTGAAGGAGGAGATAGCTGTTCTGTCTGCTGAGAAAAGTCACTCCAAGGAAGTCTCCAGGAG
 CCGGTCTCCAGCCCTGCCCTCGCAGCCGTAGCTGCAGCCGAGCAGATCTGCCAGCCCTCCACCGCT
 GTCAAGGTCAGGAGACCGTCCCCAAACCGCTCCAAGCTGTCCAATGTGGCGCGCAAGGCTGCCCTTTGT
 CCCGGTTCAGCGATTCTATTCCAGGCCCGCTGGACGCGCAGTGCCTGCTGCGGCGTGCATCGACAA
 GGCTGAGACCGTTTCCAGCGGATCATCTACATCGCCACAGTGGAGGCATTCCATGTAGCAAAAATGGCATT
 AGACACTCAAGATCCATGTGAGAAAATCGTTGACACCATCTTATGTGGGTGCAATGACTTTGAGAAATG
 CTGCTTTGGATTATGTCATTTGTCATCTTGATCTATATGATTCTCAAAGCAGTGTCAATGTGATCCG
 AGCCATGAATGTCAATCCCAAGATTTTCCCTCCTGTGCTTGAATTTTGCCTTCTCAGTGACTTCATC
 CAGGAGATATGTTGCATTGCCTTTGCAATGCAGGCCTTAGAACCCCTAGATATTGCATATGGAGCAG
 ATGGAGAAGTTTTAATGATTGCAAAATACCGCCGAGCTACGACTCGGATTTCACTGCTCCCTTAGTCT
 CTATCACGTGTGGCTGCTCTCATGGAGAATGACTGTGTCATTATGAAGGGAGAAGCTGTACCAGGAGA
 GGGGCTTTTTGGAATTCGGTGCATCTGTAAGTCGTTGTCGAAGCAGGAGTTAAGTCCCATTTGCCCC
 GTAGCCAAATTGGTTTAAACACGATGTCTCGAAGTCGGAGTCTTCTCCAATAAGATGTGGATTGCCAAG
 ATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205544 representing NM_145263
 Red=Cloning site Green=Tags(s)

MAENLKRLVSNETLRTLQEKLDLFWLKEYNTNTCDQNLNHCLELIEQVAKVQGQLFGILTAAAEQEGGRNDG
 VETIKSRLLPWLEASFTAASLGKSVDSKVPSLQDTFDRERHKDPSPRDRMQQLDSNLNSTRSQCNQVQD
 DLVETEKNLLEESKNRSAILSLAAEEEEINQLKKQLKSLQAQEDARHRNTDQRSSENRRSEPWLEERKREQ
 WNSLKQNADQDTEAMSDYKQLRNLKEEIAVLSAEKSALQGRSSRSRSPAPRSRCSRSRSASPSTA
 VKVRRPSPNRSKLSNVARKAALLSRFSDSYSQARLDAQCLLRRCIDKAETVQRIIYIATVEAFHVAKMAF
 RHFKIHVRKSLTPSYVGSNDFENAVLDYVICHLDLYDSQSSVNDVIRAMNVNPKISFPPVDFCLLSDFI
 QEICCIAMQALEPPLDIAYGADGEVFNDCYRRSYSDFTAPLVL YHVWPALMENDCVIMKGEAVTRR
 GAFWNSVRSVSRCSRSLSPICPRSQIGLNTMSRSRSPSPIRCGLPRF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_145263

ORF Size: 1614 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

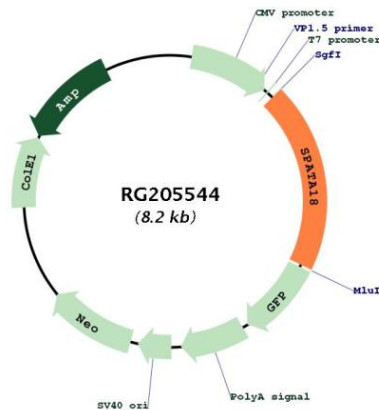
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_145263.4](#)
 RefSeq Size: 4317 bp
 RefSeq ORF: 1617 bp
 Locus ID: 132671
 UniProt ID: [Q8TC71](#)
 Cytogenetics: 4q12

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]

Product images:



Circular map for RG205544