

## Product datasheet for **RG238613**

### SPATA18 (NM\_001297608) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA18 (NM_001297608) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG238613 representing NM\_001297608.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGAAAACCTGAAAAGACTGGTCTCAAACGAAACTTTACGAACGTTGCAGGAAAAGCTAGACTTC
TTGGCTGAAGGAGTACAACACAAACACGCTGTGATCAAATCTAAACCATTGCCTTGAACTCATTGAGCAA
GTTGCCAAGGTGCAGGGACAACCTTTGGGATCCTCACAGCAGCAGCCCAAGAAGGAGGACGTAATGAT
GGTGTGGAAACAATCAAGTCACGCCTTTTGCCTTGGCTGGAGGCTTCTTTACTGCTGCTCCCTGGGA
AAATCTGTTGACAGCAAGGTCCCCTCTCTGCAGGACACGTTTGTAGGGAGAGACATAAAGATCCCAGT
CCTCGGGATCGGGATATGCAACAGTTAGACTCTAATTTGAACTCAACCCGGAGTCAATGCAACCAGGTT
CAAGACGAGCTTAAATCTCTTCAAGCTCAGGAGGATGCCCGCCACAGAAACACAGATCAGAGGAGCTCA
GAGAATAGGCGGTGAGAGCCTTGGAGCTTGGAGGAGCGGAAGCGTGAGCAGTGAACTCACTCAAGCAG
AATGCAGACCAGCAGGACACAGAAGCCATGTCCGATTATAAGAAACAGCTCCGAAACCTGAAGGAGGAG
ATAGCTGTTCTGTCTGCTGAGAAAAGTGCCTCAAGGAAGGCTCCTCCAGGAGCCGGTCTCCAGCCCT
GCCCTCGCAGCCGTAGCTGCAGCCGCAGCAGATCTGCCAGCCCTCCACCGCTGCAAGGTCAGGAGA
CCGTCCCCAAACCGCTCCAAGCTGTCCAATGTGGCGCGCAAGGCTGCCCTCTGTCCCGGTTACGGAT
TCCATTTCCAGGCCCGCTGGACGCGCAGTGCCTGCTGCGGCGTGCATCGACAAGGCTGAGACCGTT
CAGCGGATCATCTACATCGCCACAGTGGAGGCATTCCAATGTAGCAAAAATGGCATTGAGACACTTCAAG
ATCCATGTGAGAAAATCGTTGACACCATCTTATGTGGGGTCAATGACTTTGAGAATGCTGTCTTGGAT
TATGTCATTTGTCATCTTGATCTATATGATTCTCAAAGCAGTGTCAATGATGTGATCCGAGCCATGAT
GTCAATCCCAAGATTTCAATCCCTCCTGCTGCTTACTTTGCTTCTCAGTGACTTCATCCAGGAGATA
TGTTGCATTTGCCCTTGAATGCAGGCTTAGAACACCCCTAGATATTGCATATGGAGCAGATGGAGAA
GTTTTTAATGATTGCAAATACCGCCGCAGCTACGACTCGGATTTACTGCTCCCTTAGTCCCTCTATCAC
GTGTGGCCTGCTCTCATGGAGAATGACTGTGCTATTATGAAGGGAGAAGCTGTCACCAGGAGAGGGGCT
TTTTGGAATTCGGTGGATCTGTAAGTCGTTGTGGAAGCAGGAGTTAAGTCCCATTTGCCCGCTAGC
CAAATTTGGTTAAACACGATGTCTCGAAGTCGGAGTCTTCTCCAATAAGATGTGGATTGCCAAGATTT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
```

**Protein Sequence:**

>Peptide sequence encoded by RG238613  
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MAENLKRLVSNETLRTLQEKLDFWLKEYNTNTCDQNLNHCLELIEQVAKVQGQLFGILTAAQEGGRND
GVETIKSRLLPWLEASFTAASLGSVDSKVPSLQDTFDRERHKDPSPRDRMQQLDSNLNSTRSQCNQV
QDELKSLQAQEDARHRNTDQRSSENRRSEPWSLEERKREQWNSLKQADQQDTEAMSDYKKQLRNLKEE
IAVLSAEKSAHQGRSSRSPSPAPRSRCSRSPSTAVKVRPSPNRSKLSNVARKAALLSRFSD
SYSQARLDAQCLLRIDKAETVQRIIYIATVEAFHVAKMAFRHFKIHVRSKSLTPSYVGSNDFENAVLD
YVICHLDLYDSQSSVNDVIRAMNVNPKISFPPVDFCLLSDFIQEICCIAFAMQALEPPLDIAYGADGE
VFNDCKYRRSYSDFTAPLVLYHVWVWALMENDCVIMKGEAVTRRGAFWNSVRSVSRCSRSLSPICPRS
QIGLNTMSRSPSPSPIRCGLPRF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDVSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001297608

**ORF Size:** 1518 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).

**RefSeq:** [NM\\_001297608.2](#)

**RefSeq Size:** 4329 bp

**RefSeq ORF:** 1521 bp

**Locus ID:** 132671

**UniProt ID:** [Q8TC71](#)

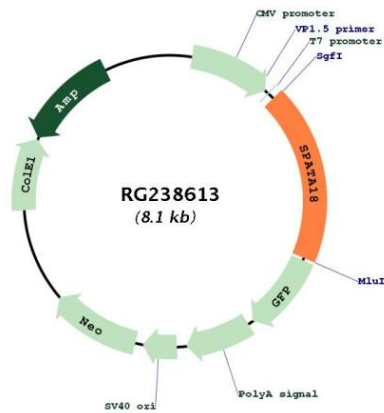
**Cytogenetics:** 4q12

**MW:** 57.9 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]

**Product images:**



Circular map for RG238613