

## Product datasheet for **RG215346**

### SPATA7 (NM\_018418) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA7 (NM_018418) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPATA7
Synonyms:	HEL-S-296; HSD-3.1; HSD3; LCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG215346 representing NM\_018418  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCCAGAGCAACCTCTGTCTTCCAGATATGGTCCACCGTGCCTATTTAAAG  
 GACACTTGAGCACAAAAGTAATGCTTTTTGCACTGACTCCTTCTCTCAGACTAAGCACTCTCCAGCT  
 GGTCAAGAATCACATGGCTGTCTACTATAATAAAATCCTTTCAGCCAAAGCTGCAGTAGACTGCTCGGTT  
 CCAGTAAGCGTGAGTACCAGCATAAAGTATGCAGACCAACAACGAAGAGAGAAAACAAAAAGGAATTAG  
 CACAATGTGAAAAAGAGTTCAAATTAACAAAACGCAATGCGAGCCAATTATAAAAAATAATCCAAAGTC  
 ACTTTTTAATACCTTACAAAAGCCCTCAGGCGAACCGCAAATTGAGGATGACATGTTAAAAGAAGAAATG  
 AATGGATTTTCATCCTTTGCAAGGTCAGTACCCTTTCAGAGAGACTACACCTAAGTCTACATAAAT  
 CCAGTAAAGTCATCAAAATGGCCCTGAGAAGAACTCCAGTTCCTCCCGTCCAGTGTGGATTATGCAGC  
 CTCGGGCCCCCGAAAACGAGCTCTGGAGCCCTGTATGGCAGAAGGCCAGAACGACATTCCAAATTC  
 CACCGGTTTCAGTTAGTCACTTCGAAAGCACCCAGTGGGGATCTTTGGATAAACATTCTGAACTCTTT  
 CTAACAAACAATTGCCATTCCTCCTCGCACTTTAAAAACAGAAGCAAAATCTTCTGTACAGATACG  
 CTATTATACACCTGCCAAAAGAAAAAGGATTTTACAGATCAACGGATAGAAGCTGAAACCCAGACTGAA  
 TTAAGCTTTAAATCTGAGTTGGGACAGCTGAGACTAAAAACATGACAGATTAGAAAATGAACATAAAGC  
 AGGCATCTAATTGTGTGACATATGATGCCAAAGAAAAATAGCTCCTTTACCTTTAGAAGGGCATGACTC  
 AACATGGGATGAGATTAAGGATGATGCTTTCAGCATTCTCACAAGGGCAATGTGTCAGTATTCCTG  
 AAGCCCCCTTCAACTCGTAAAATCTACTCTGATGAAGAAGAACTGTTGTATCTGAGTTTCATTGAAGATG  
 TAACAGATGAAATTTTGAAACTTGGTTTATTTTCAAACAGGTTTTTGAACGACTGTTTCGAGCGCATAT  
 AAAACAAAATAAACATTTGGAGGAGGAAAAAATGCGCCACCTGCTGCATGCTGAAAGTAGACTTAGGC  
 TGCACATCGGAGGAAAACCGGTAAGCAAAATGATGTTGATATGTTGAATGATTTGATTTGAAAAGG  
 CTGGGAATTCAGAACCAATGAATTAATAAATGAAAGTGAAGTAACAATTCAGCAGGAACGTCAACAATA  
 CAAAAGGCTTTGGATATGTTATTGTCGGCACCAAGGATGAGAACGAGATATCCCTTCACCAACTGAA  
 TTTTTCATGCCTATTTATAAATCAAAGCATTGAGAAGGGTTATAATTCAACAGGTGAATGATGAAACAA  
 ATCTTGAACTTCAACTTTGGATGAAAATCATCCAAGTATTTGAGACAGTTAACAGATCGGGAACTTC  
 TGTGAATGTCATTGAAGGTGATAGTGACCTGAAAAGGTTGAGATTTCAAATGGATTATGTGGTCTTAAC  
 ACATCACCTCCCAATCTGTTTCAGTTCTCCAGTGTCAAAGGCGACAATAATCATGACATGGAGTTATCAA  
 CTCTAAAATCATGGAATGAGCATTGAGGACTGCCCTTTGGATGTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215346 representing NM\_018418  
 Red=Cloning site Green=Tags(s)

MDGSRVRATSVLPYRYPPLFLKGLSTKSNFCTDSSSLRSLTLQLVKNHMAVHYNKILSAKAAVDCSV  
 PVSVSTSIKYADQQRREKLKELAQCEKEFKLTKTAMRANYKNSKSLFNTLQKPSGEPQIEDMLKEEM  
 NGFSSFARSLVPSSERLHLHLKSSKVIITNGPEKNSSSPSSVDYAAAGPRKLSGALYGRPRSTFPNS  
 HRFQLVTSKAPSGDLLDKHSELSNKQLPFTPRTLKTEAKSFLSQYRYTPAKRKKDFTDQRIEAEQT  
 LSFKSELGTAETKNMTDSEMNIKQASNCVTDYAKEKIAPLPLEGHDSTWDEIKDDALQHSSPRAMCQYSL  
 KPPSTRKIYSDEEELLYLSFIEDVTDEILKLGFLSNRFLERL FERHIKQNKHLEEEKMRHLLHVLKVDLG  
 CTSEENSVKQNDVMDLNVDFEKGAGNSEPNELKNESEVTIQQERQYQKALDMLLSAPKDENEIFPSPT  
 FFMPIYKSKHSEGVIIQVQVNDENLETSTLDENHPSISDSLTDRETSVNVIEGSDPEKVEISNGLCGLN  
 TSPSQSVQFSSVKDNNHDMELSTLKIMEMSIEDCPLDV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_018418

**ORF Size:** 1797 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:**

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\\_018418.1](#), [NP\\_060888.1](#)

**RefSeq Size:** 2009 bp

**RefSeq ORF:** 1800 bp

**Locus ID:** 55812

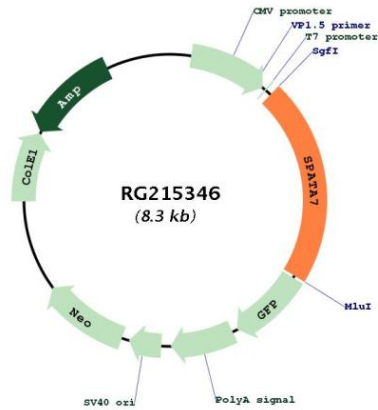
**UniProt ID:** [Q9P0W8](#)

**Cytogenetics:** 14q31.3

**Gene Summary:**

This gene, originally isolated from testis, is also expressed in retina. Mutations in this gene are associated with Leber congenital amaurosis and juvenile retinitis pigmentosa. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

**Product images:**



Circular map for RG215346