

## Product datasheet for **SC310724**

### SPATA7 (NM\_001040428) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPATA7 (NM_001040428) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPATA7
Synonyms:	HEL-S-296; HSD-3.1; HSD3; LCA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



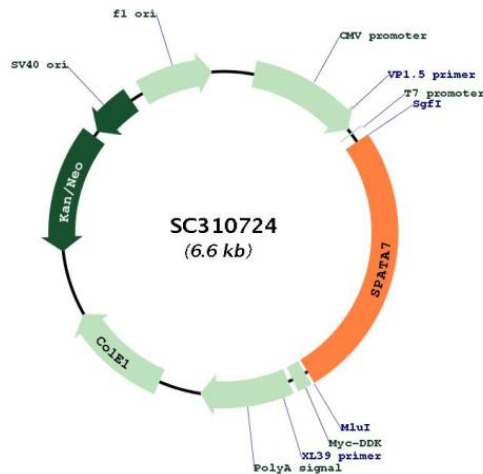
[View online »](#)

Fully Sequenced ORF: >SC310724 representing NM\_001040428.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGGCAGCCGGAGAGTCAGAGCAACCTCTGTCCTTCCAGATATGGTCCACCGTGCCTATTTAAA
GGACACTTGAGCACCAAAAGTAATGCTGCAGTAGACTGCTCGGTTCCAGTAAGCGTGAGTACCAGCATA
AAGTATGCAGACCAACAACGAAGAGAGAACTCAAAAAGGAATTAGCACAAATGTGAAAAAGATTCAAAA
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CCCTCAGGCGAACCGCAAATTGAGGATGACATGTTAAAAGAAGAAATGAATGGATTTTCATCCTTTGCA
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GGTCTGAGAAGAACTCCAGTTCCTCCCGTCCAGTGTGGATTATGCAGCCTCCGGGCCCGGAAACTG
AGCTCTGGAGCCCTGTATGGCAGAAGGCCAGAAGCACATTCCCAAATCCCACCGGTTTCAGTTAGTC
ATTTCAAAGCACCCAGTGGGGATCTTTGGATAAACATTCTGAACTCTTTCTAACAAACAATTGCCA
TTCCTCCTCGCACTTTAAAACAGAAGCAAAATCTTTCTGTACAGTATCGCTATTATACACCTGCC
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GAGTTGGGACAGCTGAGACTAAAAACATGACAGATTCAGAAATGAACATAAAGCAGGCATCTAATTGT
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GCTTTGGATATGTTATTGTCGGCACAAAGGATGAGAACGAGATATCCCTTACCAACTGAATTTTC
ATGCCATTTATAAATCAAAGCATTGAAAGGGTTATAATTCAACAGGTGAATGATGAAACAAATCTT
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AATGTCATTGAAGGTGATAGTGACCCTGAAAAGGTTGAGATTTCAAATGGATTATGTGGTCTTAACACA
TCACCCTCCCAATCTGTTGAGTCTCCAGTGTCAAAGGCGACAATAATCATGACATGGAGTTATCAACT
CTTAAAATCATGAAATGAGCATTGAGGACTGCCCTTTGGATGTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI

## Plasmid Map:



ACCN: NM\_001040428

Insert Size: 1704 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001040428.3](#)

RefSeq Size: 1935 bp

RefSeq ORF: 1704 bp

Locus ID: 55812

UniProt ID: [Q9P0W8](#)

Cytogenetics: 14q31.3

MW: 64.2 kDa

**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]

Transcript Variant: This variant (2) is lacking an in-frame coding exon compared to variant 1, resulting in a shorter isoform (2) missing an internal protein segment compared to isoform 1.