

## Product datasheet for **SC314344**

### SASS6 (NM\_194292) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SASS6 (NM_194292) Human Untagged Clone
Tag:	Tag Free
Symbol:	SASS6
Synonyms:	MCPH14; SAS-6; SAS6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC314344 representing NM\_194292.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGAGCCAAGTGCTGTTCCACCAACTAGTCCCGTTGCAGGTGAAATGCAAAGACTGTGAGGAGAGGAGA
GTAAGTATAAGAATGAGCATTGAACTACAATCAGTTTCTAATCCAGTTCACAGAAAGGACTTAGTTATT
CGTCTGACTGATGACACGGATCCATTTTTTTATATAACCTTGTTATATCTGAGGAAGATTTTCAAAGT
TTAAAATTCCAGCAAGGTCTTCTGGTAGACTTCTTAGCTTTCCACAAAAATTTATAGATCTCCTTCAG
CAATGTAICTCAAGAACATGCCAAAGAAATTCAGGTTTTTGTACAGTTAGTTTCTCCAGCAGCTATT
TTGGATAACTCACCTGCATTTTTAAATGTGGTAGAGACAAATCCTTTAAGCATCTTACACACCTCTCA
CTAAAACTTTTACCTGGAATGATGTGGAGATAAAGAAATTTCTCGCAGGCTGTTGAAATGTAGCAAG
GAAGAAAAATTATCATTGATGCAATCACTAGATGATGCTACTAAGCAACTGGACTTTACACGAAAGACA
TTAGCAGAAAAAAACAAGAATTAGATAAGTTACGGAATGAATGGCGTACATACAGCAGCCTTGACA
AACAAAGCATTCTCAGAACTGACAAATGAAAAGGAAAAAGCCTTGACAGGCACAGGTTCAATATCAACAG
CAGCATGAACAACAGAAAAAGATTTAGAAATCCTCCATCAACAAAACATCCACCAGCTACAAAACAGA
CTGTCTGAGTTAGAAGCGGCTAATAAAGACTTAACCGAAAAGAAAAATAAAGGAGACTCCACTATTAGA
GAACCTAAAGCAAACTTTCTGGTGTGAAAGAGGACTACAGCGGACTAAGCAAGAAGTCTCTCTTTG
CGAAGAGAGAATTCTACACTAGATGTTGAATGCCACGAGAAAGAAAAGCAGGTTAATCAGCTACAAAACA
AAAGTGGCAGTTTTAGAACAGGAAATCAAGGATAAGGACCAGCTTGTTTTAAGAACAAAAGAGGCATTT
GATACAATCCAGGAACAAAAGGTGGTTTTAGAAGAAAATGGTGAGAAAAATCAAGTACAACCTAGGAAAG
CTTGAAGCTACAATAAAATCATTATCTGCAGAACTTCTGAAGGCAATGAAATTTAAGAAGTTACAA
GGGGCTGAAAACCTTAAATGGTAAGTTGAAATGAAGAATACAGTTACTATTACAGCAAGAAAACTC
TTGGCTGAGAAGGAGGAAAAATTACAAAAGGAACAAAAGGAATTACAAGATGTTGGACAGTCTCTCGA
ATTAAGAGCAAGAGGTATGCAATTACAAGAACAATTAGAAGCTACAGTTAAAAAATTGAAGAAAGC
AAACAACCTTAAAAAATAATGAAAAGTTAATCACGTGGTTAAATAAAGAACTAAATGAAAATCAGCTA
GTGAGAAAGCAAGATGTATTGGGACCTTCTACTACTCCGCCTGCACATTCAGCAGCAACACAATCAGA
AGTGAATTTCTCCTAACCTGAATGTGGTTGATGGTAGACTGACTTACCCAACCTGTGGGATTGGTTAT
CCTGTCTCCTCTGCATTTGCATTCCAGAATACCTTCCCTCATTGATATCTGCCAAAAATACCAGCCAC
CCTGGTTCAGGAACAAAGGTTCAAGTTAATTTGCAGTTTACAAAACCAATGCATCACTAGGAGATGTT
CAGTCAGGAGCAACTATTAGTATGCCTTGCTCACTGATAAGGAAAATGGTGAAAATGTAGGTTGGAA
TCCAAATACCTGAAGAAAAGGGAAGATAGCATTCTTTACGCGGACTCAGCCAGAACCTATTTAGTAAAT
TCAGACCATCAGAGAGATGGCACTTTAGGAGCATTACATACATCTTCAAACCCACAGCGCTCCCCTCT
CGCTTTCAGCCTATTTCCCTGGGCAGTTACCAAACAGTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_194292  
**Insert Size:** 1974 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\\_194292.2](#)

**RefSeq Size:** 4049 bp

**RefSeq ORF:** 1974 bp

**Locus ID:** 163786

**UniProt ID:** [Q6UVJ0](#)

**Cytogenetics:** 1p21.2

**MW:** 74.4 kDa

**Gene Summary:** The protein encoded by this gene is a central component of centrioles and is necessary for their duplication and function. Centrioles adopt a cartwheel-shaped structure, with the encoded protein forming the hub and spokes inside a microtubule cylinder. Defects in this gene are a cause of autosomal recessive primary microcephaly. [provided by RefSeq, Oct 2016]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).