

## Product datasheet for **SC317957**

### **MKS1 (NM\_017777) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MKS1 (NM_017777) Human Untagged Clone
Tag:	Tag Free
Symbol:	MKS1
Synonyms:	BBS13; JBTS28; MES; MKS; POC12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317957 representing NM\_017777.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCGGAGACCGTCTGGAGCACTGACACCGGGGAGGCAGTGTATCGCTCCCGGGACCCCGTGCACAAC
TTGCGCCTCCGAGTCCACCTGCAAAGAATCACATCAAGCAACTTCTTCATTATCAGCCTGCTGCCGAG
CTCGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCAGCCAAGTCCAGTGGACACCGCCAGAG
GAAGACGAAGAGGAGGAGATTGTGATTGGTGGCAGGAGAAGCTCTTTAGCCAGTTTGAAGTAGATCTG
TACCAAAATGAAACAGCCTGTCAGAGTCTTTGGATTATCAGTACCGTCAGGAGATCCTGAAGCTGGAG
AATTCCGGTGGCAAGAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACCAATTTGGAG
GAGCACTGTCAGAGAATGACCACTGCAGCCAGCGAGGTGCCTTATTCTTGGTCGAGCGAATGGCAAT
GTCAGGCGTCGCCGCGAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGG
GAGCCCTCAGAAGAGTTTGTGAGGAACAACCACGTCATTAACACCCTCTTCAGACAATGCACATCATG
GCAGACCTGGGGCCCTATAAAAAGCTTGGCTATAAGAAGTATGAACATGTCTGTACTCTGAAGGTG
GATAGCAATGGTGTGATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACG
GAGGGGGAGAAGCAGGAGCTGTGAAATATACGATCGACAATGTTTCCCCCACGCACAGCCGGAGGAG
GAGGAGCGGGAACGGCGAGTGTCAAGGATCTTTATGGCCGCGACAAGGAGTATCTCAGCAGCCTCGTA
GGCACCAGCTTTGAGATGACTGTCCAGGTGCCCTCCGGCTCTTTGTAATGGAGAGGTCGTTTCAGCC
CAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTTGTAAGTATGCAACTGCTCACTGGTCAAGC
CCAGCATTCCAGCAGCTCTCAGGAGTAAACAGACCTGCACCACCAAGTCCCTGGCAATGGACAAGGTG
GCTCACTTCTCTACCCATTACGTTTGAAGCCTTCTTCTCCATGAGGATGAATCTTCTGATGCACTC
CCGGAGTGGCCTGTGCTCTACTGTGAGGTCTCTCGCTGGACTTCTGGCAGAGGTACCGTGTGGAAGGC
TATGGGGCTGTGGTGTGCTGCCACTCCAGGCTCACACACCCTGACAGTCTCCAGTGGAGACCTGTG
GAGCTTGGCACGGTGGCTGAGCTGAGGAGTTTTTTCATTGGCGGTTCTCTGGAAGTGGAGGACCTCTCC
TATGTACGGATACCAGGATCCTTCAAGGGGAACGCGCTGAGCCGCTTTGGACTCCGCACAGAGACCACA
GGCACTGTACCTTCCGCTTGCAGTGTCTGCAGCAGTCCAGGGCCTTCATGGAATCGAGCTCCCTTCAG
AAAAGGATGCGGAGTGTGTTGGACCGTCTGGAAGGTTTCAGCCAGCAGAGTTCATTACAAATGTGCTA
GAGGCCTCCGTCGAGCCCGGCCGCGATGCAGGAGGCCCGGAAAGCCTCCCGCAGGACCTAGTGAGC
CCCTCTGGAACCCTGGTCTCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
```

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_017777
- Insert Size:** 1680 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_017777.3](#)

**RefSeq Size:** 2408 bp

**RefSeq ORF:** 1680 bp

**Locus ID:** 54903

**UniProt ID:** [Q9NXB0](#)

**Cytogenetics:** 17q22

**MW:** 64.5 kDa

**Gene Summary:** The protein encoded by this gene localizes to the basal body and is required for formation of the primary cilium in ciliated epithelial cells. Mutations in this gene result in Meckel syndrome type 1 and in Bardet-Biedl syndrome type 13. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]  
Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.