

## Product datasheet for **SC113940**

### **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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC113940 sequence for NM\_017777 edited (data generated by NextGen Sequencing)

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ATGGCGGAGACCGTCTGGAGCACTGACACCGGGGAGGCAGTGTATCGCTCCCGGGACCCC
GTGCGCAACTTGGCCTCCGAGTCCACCTGCAAAGAATCACATCAAGCAACTTTCTTCAT
TATCAGCCTGCTGCCGAGCTCGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCAG
CCAAGTGCCAGTGGACACCGCCAGAGGAAGACGAAGAGGAGGAGATTGTGATTGGGTGG
CAGGAGAAGCTCTTTAGCCAGTTTGAAGTAGATCTGTACCAAAAATGAAACAGCCTGTGCA
AGTCCTTTGGATTATCAGTACCGTCAGGAGATCCTGAAGCTGGAGAATTCGGGTGGCAAG
AAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACCAATTTGGAGGAGCAC
TGTGAGAGAATGACCACTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGCA
AATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGC
ATCGTCACCTGGGAGCCCTCAGAAGAGTTTGTGAGGAACAACCACGTCATTAACACCCCT
CTTCAGACAATGCACATCATGGCAGACCTGGGGCCCTATAAAAAGCTTGGCTATAAGAAG
TATGAACATGTCCTGTGACTCTGAAGGTGGATAGCAATGGTGTGATCACAGTAAAGCCT
GACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACGGAGGGGAGAAGCAGGAGCTG
TGGAAATATACGATCGACAATGTTTCCCCCACGCACAGCCGGAGGAGGAGCGGGAA
CGGCGAGTGTTCAAGGATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGC
ACCGACTTTGAGATGACTGTCCCAGGTGCCCTCCGGCTCTTTGTAATGGAGAGGTGCTT
TCAGCCCAAGGCTATGAGTATGACAATCTCTACGTCCACTTCTTTGTAGAATTGCCAACT
GCTCACTGGTCAAGCCCAGCATTCCAGCAGCTCTCAGGAGTAACACAGACCTGCACCACC
AAGTCCCTGGCAATGGACAAGGTGGTCACTTCTCCTACCCATTCACGTTTGAAGCCTTC
TTCCTCCATGAGGATGAATCTTCTGATGCACTCCCGGAGTGGCCTGTGCTCTACTGTGAG
GTCTCTCGTGGACTTCTGGCAGAGTACCGTGTGGAAGGCTATGGGGCTGTGGTGTCTG
CCTGCCACTCCAGGCTCACACACCTGACAGTCTCCACGTGGAGACCTGTGGAGCTTGGC
ACGGTGGCTGAGCTGAGGAGGTTTTTTCATTGGCGTTCTCTGGAAGTGGAGGACCTCTCC
TATGTACGGATACCAGGATCCTTCAAGGGGAACGCTGAGCCGCTTTGGACTCCGCACA
GAGACCACAGGCACTGTACCTTCCGCTTGCAGTGTCTGCAGCAGTCCAGGGCCTTCATG
GAATCGAGCTCCCTTCAAAAAGGATGCGGAGTGTGTTGGACCGTCTGGAAGGTTTCAGC
CAGCAGAGTTCATTACAATGTGCTAGAGGCCTTCCGTCGAGCCCGCGCCGCATGCAG
GAGGCCGGGAAAGCCTCCCGCAGGACCTAGTGAGCCCTCTGGAACCTGGTCTCTAG
    
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Clone variation with respect to NM\_017777.3

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_017777 unedited
GTCAGAATTTGTATACGACTCATATAGGCGGCCGCAAATCGGCAGAGGGTCGAGCTGT
CATGGCGGAGACCGTCTGGAGCACTGACACCGGGGAGGCAGTGTATCGCTCCCGGGACCC
CGTGGCAACTTGGCCTCCGAGTCCACCTGCAAAGAATCACATCAAGCAACTTTCTTCA
TTATCAGCCTGCTGCCGAGCTCGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCA
GCCAACTGCCAGTGGACACCGCCAGAGGAAGACGAAGAGGAGGAGATTGTGATTGGGTG
GCAGGAGAAGCTCTTTAGCCAGTTTGAAGTAGATCTGTACCAAAAATGAAACAGCCTGTCA
GAGTCTTTGGATTATCAGTACCGTCAGGAGATCCTGAAGCTGGAGAATTCGGGTGGCAA
GAAAAACCGACGAATCTTTACCTACACTGACTCTGATAGATACACCAATTTGGAGGAGCA
CTGTCAGAGAATGACCACTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGC
AAATGTCAGGCGTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACG
CATCGTCACCTGGGAGCCCTCAGAAGAGTTTGTGAGGAACAACCACGTCATTAACACCCC
TCTTCAGACAATGCACATCATGGCAGACCTGGGGCCCTATAAAAAGCTTGGCTATAAGAA
GTATGAACATGTCCTGTGACTCTGAAGGTGGATAGCAATGGTGTGATCACAGTAAAGCC
TGACTTACGGGCCTCAAAGACCCTACAGGAATTAGACCGGAGGGGAGAAGNCAGAGCTG
TGAATATACGATCGACAATGTTCCCCCACGCACGCCGNAGAGAAGANCCGGAAGTGC
NAGTGTTACAGATCTTTATGCCGGCCAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_017777 unedited GCGCGCCGAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGTTTATGTA ACAAAAACAAAAACAAACAAAAACAAAAACACAGTAAAGATACCACCCAGCTAGCA GAAAGGACTCAGCACTGCCTTCAGCCTTCACTTACTCAGAAATAACTCATATCTCAACCT CAGCAAGCCCCAAGCAGTAAATGAGGCTTCCCTGGAAAGAGGCTGAGACTCACAGGCTG GGGATTTAAGACCCTCTCACCGTCCACCTTCCTTCCTTTGGTCTTGAAGATGAAAG GCTCCATTTTTAAAGGGTGGAGAAAGCAGATCCCCTGCTACTGTGAGACAAGCCAGAAAA GTGAGTCAAGGCCAGACTCACTATGGGGTCACCCCAAACAGCTTCAGATCAAAAAGCCTG CCTTGCTGTGATGCCATTGACAGTGGCTGCAAAATATAAAGGGGGGCCACAGGGTCTCT GGCTTTATTTCCACAGGGTAGGGAGAAGACCCTGCAGAAGGCTAGGCAGAGGGGCCAGCC GGGAATTTCCAGCTTTTCTGGTTCTCAGCAGACCAACGTGGTCTCTAATCAGAAAGACG AAGAGGCAGGAGAGCACTGGCCTCAGATATCCCCATCTTGTCTTGCCTGTGGGCC AGGGCTGTGTGAGCTAGGAGACCAGATTCCAGAGGGGCTCACTANGTCTGCAGGAGG CTTCCCGGCTCTGCATGCGCGCCGGCTCGACGGAAGCCTCAGCACATGTGAATGGAC TCTGCTGGCTGACCCTCCAGACGTCCAACAACCTCCGCATCTTTCTGAAGGAGCCGATTC CTGAAGCCCTGACTGCTGCAAACAGGCAGCGGAAGTGACGTGCCGTGGTCTGGGCGAGT CCAGCGGCTAGCGGTCCCCTTGAGATCTGTATCGCACTAGAAAGCCTCATCCAGAAACCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_017777
<b>Insert Size:</b>	2340 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_017777.1</a> , <a href="#">NP_060247.1</a>
<b>RefSeq Size:</b>	2081 bp
<b>RefSeq ORF:</b>	1251 bp
<b>Locus ID:</b>	54903
<b>UniProt ID:</b>	<a href="#">Q9NXB0</a>
<b>Cytogenetics:</b>	17q22

**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.