

## Product datasheet for **SC324180**

### **MKKS (NM\_170784) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MKKS (NM_170784) Human Untagged Clone
Tag:	Tag Free
Symbol:	MKKS
Synonyms:	BBS6; HMCS; KMS; MKS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_170784.1  
 TGGCGGCCTGGGGCGGCGACGGCTGGTGCAGGTACTGATGCTGAAGTACTATGA  
 GCCTTCGGAACCTGTGGAGAGACTACAAAGTTTTGGTTGTTATGGTCCCTTTAGTTGGGC  
 TCATACATTTGGGGTGGTACAGAATCAAAGCAGCCCTGTTTTCCAAATACCTAAAAACG  
 ACGACATTCCTGAGCAAGATAGTCTGGGACTTTCAAATCTCAGAAGAGCCAAATCCAGG  
 GGAAGTAGCAGGCTTGAATCTTCAGGTAAGAAGCAGCTTTGAATCTGAGCTTCATATC  
 GAAAGAAGAGATGAAAAATACCAGTTGGATTAGAAAGAAGCTGGCTTCTGTAGCTGGGAT  
 ATCTTTCATAGGTGCCATCTTGGAACTACTTTTTGCAGAGGTCTGCAAAGCAGTCTGT  
 AAAATTTCAAGTCTCAAAGCAAACAAAAGAGATTGAAGAGTGAAGTAAAAATAATTTG  
 GAATTAATAATTTGTCATTAAATCATTCTATGCTGATTAGCTTCATAAACATTGAACTTT  
 TTGATTTTATAGCCACAATGCTGCATATTCATACTTTAATTCCTAAAGAATAATTTTAA  
 TGTTAAAAACGTGATAATGCAATAAATAGAAAAATGTGGTTTACAAAAATAAAACGGTCTT  
 CACTAGTTACCACCTGAAGTAAGATGTCTCGTTTGAAGCTAAGAAGCCATCATTGTGTA  
 AGAGTGAACCACTGACAAGTGAAGAGTCAAGGACACACTTTCTGTCTTAAAAGAAATTG  
 TAACATCATGCTATGGCCCTTCAGGTAGGCTGAAGCAGCTGCACAATGGCTTTGGAGGTT  
 ACGTGTGTACAACCTCACAGTCCCTCAGCTCTGCTCAGTCACTTTTGGTACACATCCCA  
 TTTTAAAGATCCTGACAGCCTCCATACAGAATCATGTGTCAAGCTTCAGTGATTGTGGCT  
 TATTCACAGCTATTCTTTGCTGCAACCTGATTGAAAATGTTTCAAGAGATTAGGCTTGACAC  
 CCACCACTGTCATTAGATTAATAAACATCTTTTGGAGTCTTTGCATCAGTTATCTCAAGT  
 CTGAGACCTGTGGTTGTGCAATCCCAGTGGACTTTAGTAGTACTCAGATCCTCCTTTGTT  
 TGGTGCAGTATATTAACAAGTAAACCTGCCTGTATGCTCACCAGAAAGGAAACAGAGC  
 ATGTCAGTGCCTTTGATTTGAGAGCCTTTTGTCTACAATCCAGAAAATGCTGAAGGCC  
 ACATCTTTTAGGAAAGAGTTTAAATTGACTTTAAAAGGTCAAAGAGTTATAGATTCCA  
 CTGTATTACCTGGGATACTCATTGAAATGTCAGAAGTTCAATTAATGAGGCTATTACCTA  
 TCAAAAAATCAACTGCCCTCAAGGTGGCACTCTTTTGTACAACCTTATCCGGAGACACTT  
 CTGACACTGGAGAAGGAACTGTGGTGGTCAAGTATGGGGTTTCTCTTGA AAAATGCAGTCT  
 TGGACCAGCTGCTTAACCTAGGAAGGCAGCTAATCAGTGACCACGTAGATCTTGCCTGT  
 GCCAAAAAGTTATACATCCATCTTTGAAGCAGTTTCTCAATATGCATCGTATTATTGCCA  
 TAGACAGAATTGGAGTGACTCTGATGGAACCCCTGACTAAAATGACAGGAACACAGCCTA  
 TTGGATCCCTAGGCTCAATATGCCTAATAGTTATGGAAGTGTGAAAGATGTGTGCACTG  
 CAAAATTTGGCTCCAAACATTTTTTTCATCTTATTCCTAATGAAGCAACAATCTGCAGCT  
 TGCTTCTCTGCAACAGAAATGACACTGCCTGGGATGAGCTGAAGCTCACGTGTCAGACGG  
 CACTGCATGTCCTGCAGTAAACTCAAGGAACCATGGGCTTTGTTGGGAGGTGGCTGTA  
 CTGAAACTCATTTGGCTGCATATATCAGACACAAGACTCACAACGACCCAGAAAGCATT  
 TCAAAGATGATGAATGTACTCAAACAGAACTTCAATTAATTGCTGAAGCATTGTCAGTG  
 CCCTAGAATCTGTTGTTGGCTCTTTAGAACATGATGGAGGTGAAATTTCTCACTGCATGA  
 AGTATGGACACCTTTGGTCAAGTTCAGGCAGATTCTCCCTGTGTTGCTAACTGGCCAGATT  
 TGCTTTACAGTGTGGCTGTGGATTATACAATAGCCAGGAAGAAGCTCAACTGGTCTTTCT  
 TAAGAAGCACATGTCGTCCATTTGTGCCACAAAGCTGCCTCCACATGAAGCTGTGGTCT  
 CAGCCAGCAACCTGACCTTGGACTGTTTGAAGTGCAGAAAGCTTAGTGGCCTACAGGTGGCTG  
 TAGAGACAGCCAATTTGATTTTGGATCTTTCATATGTTATTGAAGATAAAAACTAAGAGA  
 ATAGCATGTTCTGATTACAAGAGAAACAAATAAACTAGTCTGTTGGCAATTGAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_170784

**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).

<b>OTI Annotation:</b>	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.
<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_170784.1</a> , <a href="#">NP_740754.1</a>
<b>RefSeq Size:</b>	2540 bp
<b>RefSeq ORF:</b>	1713 bp
<b>Locus ID:</b>	8195
<b>UniProt ID:</b>	<a href="#">Q9NPJ1</a>
<b>Cytogenetics:</b>	20p12.2
<b>Gene Summary:</b>	<p>This gene encodes a protein which shares sequence similarity with other members of the type II chaperonin family. The encoded protein is a centrosome-shuttling protein and plays an important role in cytokinesis. This protein also interacts with other type II chaperonin members to form a complex known as the BBSome, which involves ciliary membrane biogenesis. This protein is encoded by a downstream open reading frame (dORF). Several upstream open reading frames (uORFs) have been identified, which repress the translation of the dORF, and two of which can encode small mitochondrial membrane proteins. Mutations in this gene have been observed in patients with Bardet-Biedl syndrome type 6, also known as McKusick-Kaufman syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>