

Product datasheet for **SC113385**

MKKS (NM_018848) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	MKKS
Synonyms:	BBS6; HMCS; KMS; MKS
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF: >NCBI ORF sequence for NM_018848, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCGTTTGAAGCTAAGAAGCCATCATTGTGTAAGAGTGAACCACTGACAACCTGAGAGAGTCAGGA
CCACACTTTCTGTCTTGAAGAATTGTAAACATCATGCTATGGCCCTCAGGTAGGCTGAAGCAGCTGCA
CAATGGCTTTGGAGTTACGTGTGTACAACCTCACAGTCTCAGCTCTGCTCAGTCACCTTTTGGTCACA
CATCCCATTTTAAAGATCCTGACAGCCTCCATACAGAATCATGTGTCAAGCTTCAGTGATTGTGGCTTAT
TCACAGCTATTCTTTGCTGCAACCTGATTGAAAATGTTAGAGATTAGGCTTGACACCCACCACTGTCAT
TAGATTAATAAAACATCTTTTGTGCTTTGTCATCAGTTATCTCAAGTCTGAGACCTGTGGTTGTGCAATC
CCAGTGGACTTTAGTAGTACTCAGATCCTCCTTTGTTTGGTGCCTAGTATATTAACAAGTAAACCTGCCT
GTATGCTCACCAGAAAGGAAACAGAGCATGTCAGTGCTTTGATCCTGAGAGCCTTTTGTCTACAATTCC
AGAAAATGCTGAAGGCCACATCATTTTAGGAAAGAGTTTAATTGTACCTTTAAAGGTCAAAGATTATA
GATTCCACTGTATTACCTGGGATACTATTGAAATGTCAGAAGTTCATTAATGAGGCTATTACCTATCA
AAAAATCAACTGCCCTCAAGTGGCACTCTTTGTACAACCTTATCCGGAGACACTTCTGACACTGGAGA
AGGAACTGTGGTGGTCAGTTATGGGGTTTCTCTTGAAGTGCAGTCTTGACCAGCTGCTTAACCTAGGA
AGGCAGCTAATCAGTGACCACGTAGATCTGTCTGTGCCAAAAGTTATACATCCATCTTTGAAGCAGT
TTCTCAATATGCATCGTATTATTGCCATAGACAGAATTGGAGTGACTCTGATGGAACCCCTGACTAAAAT
GACAGGAACACAGCCTATTGGATCCCTAGGCTCAATATGTCCTAATAGTTATGGAAGTGTGAAGATGTG
TGCACGTGCAAAATTTGGCTCCAAACATTTTTCATCTTATTCTAATGAAGCAACAATCTGCAGCTTGC
TTCTCTGCAACAGAAATGACACTGCCTGGGATGAGCTGAAGCTCACGTGTCAGACGGCACTGCATGTCCT
GCAGTTAACTCAAGGAACCATGGGCTTTGTTGGGAGGTGGCTGTACTGAACTCATTGGCTGCATAT
ATCAGACACAAGACTCACAACGACCAGAAAGCATTCTCAAAGATGATGAATGTAAGTCAAAACAGAACTTC
AATTAATTGCTGAAGCATTTTGCAGTGCCTTAGAATCTGTTGTTGGCTCTTTAGAACATGATGGAGGTGA
AATTCTCACTGACATGAAGTATGGACACCTTTGGTCAGTTCAGGCAGATTCTCCCTGTGTTGCTAACTGG
CCAGATTTGCTTTACAGTGTGGCTGTGGATTATACAATAGCCAGGAAGAACTCAACTGGTCTTTCTTAA
GAAGCACACGTCGTCCATTTGTGCCACAAAGCTGCCTTCCACATGAAGCTGTGGGCTCAGCCAGCAACCT
GACCTTGGACTGTTTGAAGTGAAGCTTAGTGGCTACAGGTGGCTGTAGAGACAGCCAATTTGATTTTG
GATCTTTCATATGTTATTGAAGATAAAACTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_018848 unedited

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CAGATTTTGTAAATACGACTTACTATAGGGCGGCNCGCAATTCGCACGAGGCGACATTCC
TGAGCAAGATAGTCTGGGACTTTCAAATCTTCAGAAGAGCCAAATCCAGGGGAAGTAGCA
GGCTTGCAATCTTCAGGTAAAGAAGCAGCTTTGAATCTGAGCTTCATATCGAAAGAAGAG
ATGAAAAATACCAGTTGGATTAGAAAGAACTGGCTTCTGTAGCTGGGATATCTTTCATA
GGTGTCCATCTTGAACATACTTTTTGCAGAGGTCTGCAAAGCAGTCTGTAAAAATTCAG
TCTCAAAGCAAAACAAAAGAGTATTGAAGAGTGAAGTAAAAATAATTTTGAATTACTAA
TTTGTCAATTAATCATTCTATGCTGATTAGCTTCATAAACATTGAACCTTTTGTATTTAT
AGCCACAATGCTGCATATTCATACTTTAATTCCTAAAGAATAATTTTAAATGTTAAACG
TGATAATGCAATAAATAGAAAAATGTGGTTTACAAAAATAAAACGGTCTTCACTAGTTAC
CACCTGAAGTAAGATGTCTCGTTTGAAGCTAAGAAGCCATCATTGTGAAGAGTGAACC
ACTGACAACTGAGAGAGTCAGGACCACACTTTCTGTCTTGAAGAAGTGAACATCATG
CTATGGCCCCCTCAGTAGGCTGAAGCAGCTGCACAAATGGCTTGGAGGTACGTGTGTAC
AACCTCACAGTCTCAGCTCTGCTCAGTCACCTTTGGTCCACACTCCATTTTAAAGAT
CCTGACAGCCTCCATACAGAATCATGTGTCAAGCTTCAAGTATTGTGGCTTTATCACAGC
CTATTCTTTGCTGCAACCTGATTGAAAATGTNCAGAGATTAGGCTTGACACCACCACTGC
CATTAGATAAATAAACTCTTTGAGGCTTGCATCAGTATCTCAGTCTGAGACTGTGGTTG
TCGAATCCAGTNACTCTAT
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Restriction Sites: EcoRI-NOT

ACCN: NM_018848

Insert Size: 2380 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018848.2 , NP_061336.1
RefSeq Size:	2678 bp
RefSeq ORF:	1713 bp
Locus ID:	8195
UniProt ID:	Q9NPJ1
Cytogenetics:	20p12.2
Domains:	cpn60_TCP1
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same protein.