

Product datasheet for **SC124427**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124427 sequence for NM_170784 edited (data generated by NextGen Sequencing)

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ATGTCTCGTTTGGAAAGCTAAGAAGCCATCATTGTGTAAGAGTGAACCACTGACAACTGAG
AGAGTCAGGACCACACTTTCTGTCTTAAAAAGAATTGTAACATCATGCTATGGCCCCTCA
GGTAGGCTGAAGCAGCTGCACAAATGGCTTTGGAGGTTACGTGTGTACAACCTCACAGTCC
TCAGCTGTCTCAGTCACCTTTTGGTCACACATCCCATTTTAAAGATCCTGACAGCCTCC
ATACAGAATCATGTGTCAAGCTTCAGTGATTGTGGCTTATTCACAGCTATTCTTTGCTGC
AACCTGATTGAAAATGTTTCAGAGATTAGGCTTGACACCCACCACTGCTATTAGATTAAT
AAACATCTTTTGTAGTCTTTGCATCAGTTATCTCAAGTCTGAGACCTGTGGTTGTGCAATC
CCAGTGGACTTTAGTAGTACTCAGATCCTCCTTTGTTTGGTGCAGTATATTAACAAGT
AAACCTGCCTGTATGCTCACCAGAAAGGAAACAGAGCATGTCAGTGCCTTTGATCCTGAGA
GCCTTTTTGCTTACAATCCAGAAAATGCTGAAGGCCACATCATTTTAGGAAAGAGTTTA
ATTGTACCTTTAAAGGTCAAAGAGTTATAGATTCCACTGTATTACCTGGGATACTCATT
GAAATGTCAGAAGTTCAATTAATGAGGCTATTACCTATCAAAAAATCAACTGCCCTCAAG
GTGGCACTCTTTTGTACAACCTTATCCGGAGACACTTCTGACACTGGAGAAGGAAGTGTG
GTGGTCAGTTATGGGGTTTCTCTTGAAAATGCAGTCTTGACCAGCTGCTTAACCTAGGA
AGGCAGCTAATCAGTGACCACGTAGATCTTGTCTGTGCCAAAAAGTTATACATCCATCT
TTGAAGCAGTTTCTCAATATGCATCGTATTATTGCCATAGACAGAATTGGAGTGAAGTCTG
ATGGAACCCCTGACTAAAATGACAGGAACACAGCCTATTGGATCCCTAGGCTCAATATGT
CCTAATAGTTATGGAAGTGTGAAAGATGTGTGCACTGCAAAAATTTGGCTCCAAACATTTT
TTTCATCTTATTCCTAATGAAGCAACAATCTGCAGCTTGCTTCTCTGCAACAGAAATGAC
ACTGCCTGGGATGAGCTGAAGCTCACGTGTCAGACGGCACTGCATGTCCTGCAGTTAACA
CTCAAGGAACCATGGGCTTTGTTGGGAGGTGGCTGTACTGAAACTCATTGGCTGCATAT
ATCAGACACAAGACTCACAAACGACCCAGAAAGCATTCTCAAAGATGATGAATGTACTCAA
ACAGAACTTCAATTAATTGCTGAAGCATTGTCAGTGCCCTAGAATCTGTTGTTGGCTCT
TTAGAACATGATGGAGGTGAAATTCTCACTGACATGAAGTATGGACACCTTTGGTCAAGT
CAGGCAGATTCTCCCTGTGTTGCTAACTGGCCAGATTTGCTTTCACAGTGTGGCTGTGGA
TTATACAATAGCCAGGAAGAAGTCAACTGGTCTTTCTTAAAGACACACGTCGTCCATTT
GTGCCACAAGCTGCCTCCACATGAAGCTGTGGGCTCAGCCAGCAACCTGACCTTGGAC
TGTTTGACTGCAAAGCTTAGTGGCTACAGGTGGCTGTAGAGACAGCCAATTTGATTTTG
GATCTTTCATATGTTATTGAAGATAAAAACTAA
    
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Clone variation with respect to NM_170784.1

5' Read Nucleotide Sequence: >OriGene 5' read for NM_170784 unedited

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TACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGCCCTTTAGTTGGGCTCATACA
TTTGGGGTGGTACAGAATCAAAAGCAGCCCTGTTTTCCAATACCTAAAAACGACGACAT
TCCTGAGCAAGATAGTCTGGGACTTTCAAATCTTCAGAAGAGCCAAATCCAGGGGAAGTA
GCAGGCTTGCAATCTTCAGGTAAAGAAGCAGCTTTGAATCTGAGCTTCATATCGAAAAGAA
GAGATGAAAAATACCAGTTGGATTAGAAAGAACTGGCTTCTTGTAGCTGGGATATCTTTC
ATAGGTGTCCATCTTGGAACTACTTTTTGCAGAGGTCTGCAAAGCAGTCTGTAATTTT
CAGTCTCAAAGCAAACAAAAGAGTATTGAAGAGTGAAGTAAAATAAATTTTGAATTAC
TAATTTGTCATTAATCATTCTATGCTGATTAGCTTCATAAACATTGAACTTTTTGATTT
TATAGCCACAATGCTGCATATTCATACTTTAATTCCTAAAGAATAATTTTTAATGTTAAA
ACGTGATAATGCAATAAATAGAAAAATGTGGTTTACAAAATAAAAACGGTCTTCACTAGT
TACCACCTGAAGTAAAGATGTCTCGTTTGAAGCTAAGAAGCCATCATTGTGTAAGAGTGA
ACCACTGACAACCTGAGAGAGTCAGGACCACACTTTCTGTCTTGAAGAATTGTACATCAT
GCTATGGCCCCCTCAGTANGCTGAAGCAGCTGCACAATGGCTNTGGAGGNTACGTGTGTA
CAACCTCACAGTCTCAGCTCTGCTCAGTCACCTTTTGGTCACACATCCCATTNTAAGAT
CCTGACAGCCTNCTACAGATNATGTGTCAAGCTCAGTGATGTGGCTTATTACAGCTATTC
TTGCTGCAACTGATGAAAATGTANNAGATAGCTTGACCCACACTGTCT
    
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_170784 unedited GCATGGCGCAGGGTCACAGGGATGCCACTCTGGGATCTGTTCAGGNAACAGCTATGACC GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTCANTTGCCAACAGACTAGTT TATTTGTTTCTCTTTTTTNCGANCTGCTATTCTTTAGTTTAAAAAAAAAAAAAATT NGGGTGGNNTTCCGCGCTTTTGATTTTTTTTAGAGAAAAAAATTTTTTTTTTCCCNG CCGCCTTTTTTTTTGGGGGGGTTGTTTCCCCCCCCGGGGCCCCCCCCCCCCCGGGC CGCCCCCCCCCCCCCGCGGTGCGCCGGCGCCCGGGCTCCCCCCCCCCCCCGCCCCG CCGTTTCGCCGCTCGCCCCGCCCGCCCGCCCGCCGCGCCCGCCCGCCCGGCCCGCC CCGTCCCCCGCCCCCTGGGCCTCCCTGTCCTTTCTCGCCGTGCGCCGGTCCGCCTC CCCCTTGCCCCCCCCCCCGCCCGCGCGCCCGGCCCGCCCGCCCGCGGGCCCCGCGC GGTCGTCCGCCGCCCTGCCCCCCCGCCCCCCCCCGCCCTTCCCGCCGCGCGGG CCGTGCGCGGGTGGTGCCTCCCGCCCGCCCGCTCCCGTCCCGCCCGCCCGCCCCCCC TCGCCCGCGCCCCCCCCCGCCCGCGCCCGCCCGGTCTCCGCCCCCCCCCCCTGCC CCCTGCCGGTCTCCCCCGCGTCCCGTGCCTTTTCCCCCGCGCTCCCTTGTGCGT CCGCCCGCGCCCGGCCACACACCGAAAAAAACCCCCACCTCGCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_170784
Insert Size:	2300 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:	<ol style="list-style-type: none"> 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:	<u>NM_170784.1</u> , <u>NP_740754.1</u>
RefSeq Size:	2540 bp
RefSeq ORF:	1713 bp
Locus ID:	8195
UniProt ID:	<u>Q9NPJ1</u>
Cytogenetics:	20p12.2

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 (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.