

## Product datasheet for **MC228070**

### **Mkks (NM\_001286981) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mkks (NM_001286981) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mkks
Synonyms:	1300013E18Rik; AI463362; AI957237; Bbs; Bbs6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228070 representing NM\_001286981  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCCTCGGTTAGAAGCTAAGAAGCCATCGTTGTGTA AAACTGAACCATTGACAAGTGAGAAAGTCAGGT  
 CCACACTTTCTGTCTTGAAAGGAGTCATAGCCTCATGCTATGGCCCTCAGGGAGGCTGAAGCAGCTACA  
 CAATGGATTGGGAGGTTGTGTGTACACAACCTCACAGTCCTCAGCCCTGCTTCGAAACCTTTCAGTCACC  
 CATCCCGTATTAAGATCCTAACGTCATCCGTGCAGAATCACGTGTCTGCTTCAGTGACTGCGGCTTAT  
 TCACAGCCATTCTGTGCTGCAACTTGATTGAAAAATATTCAAAGACTAGATTTGACACCCGCAACTGCTAT  
 TAAATTAATAAATACCTCTTGAGTCTCTGTACCAGTTATCTCAAGTCTGAAGCCTGTAGTTGTGCAATC  
 CCAGTTGACTTCAGAAGTACACATACCTCCTCAGCTTGGTACACAGTATCTTAACAAGCAAACCAGCCT  
 GTATGCTCACCAGAAAGGAAACAGATCACATAGGTGCTTTGATTTTGAAGCTTTTTACTTACAATTCC  
 AGAAAGTACAGAAGAACGAATGGTTTTAGGGAAGAGTATAATTGTTCCCTTAAAGGGCCAAAGAGTTACA  
 GATTCTACTGTATTACCTGGACTACTCATTGAAGCATCAGAAGTTCAATTAAGGAGGTTATTACCCACTC  
 AAAAGTCTTCAGTGAGCGCCACGTTATGGCCATCGACAGAGTTGGGGTACTCTGATGGAATCTCTAAG  
 CAAAGTGACAGGAGCAACGCCTATTGGTTCTCTAAACCAATAGTTTCTACTACTTATGGAAGTGTGAAA  
 GATGTGTGCTCTGCAAGATTTGGCTCCAAACATTTTTTTCATCTTCTTCCATATGAGGCCACTGTCTGCA  
 CCTTGCTTCTCTGCAGCAGAAATGACACCGCCTGGGAGGAGCTGAAGCTCACATGTCAAACAGCAATGCA  
 CGTCTTGCAAGTAAACAATCAAGGAACCGTGGGTTTTATTGGGAGGTGGCTGTACAGAAACACACTGGCT  
 GCATATGTCAGACACAAGGTTTCATCACGAGGCAGAAGCTATTGTCAGAGATGATGGGTGACTCAGGCAA  
 AGCTGCATGTTGCTGCTGAAGCATTTTGCAGTGTCTGGAGTCCGTTGCTGGCTTTTGGAAACATGATGG  
 TGGTGAATCCTCATTGACACGAAGTATGGACACCTTTGGTCTGTCAAGCAGATTCTGCCTCTGTTGGT  
 AACTGGTCAGATACGCTGTACGGTGTGGCTGTGGTTTGTACAACAGCCAGGAAGAGCTCAGCTGGTCTG  
 TCTTAAGAAGTACTTATCATCTTTTGCACCACAAACCTGCCTTCCACAGGCAGCTTTGGGCTCAGCCAG  
 TAACCTGACTGTGGACTGCTTCACTGCCAAGCTGAGTGGCTTACAGGTGGCTGTAGAGACAGCCAATTTG  
 ATTTTAGATCTTTCATATGTCATTGAAGATAAAAACTAA

**ACGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001286981
- Insert Size:** 1509 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001286981.1](#), [NP\\_001273910.1](#)

**RefSeq Size:** 3003 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 59030

**Cytogenetics:** 2 F3

**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. Alternatively spliced transcripts encoding distinct isoforms have been found for this gene. [provided by RefSeq, Nov 2013]

Transcript Variant: This variant (3) lacks an in-frame segment in the coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.