

## Product datasheet for **MC219030**

### **Mks1 (NM\_001039684) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mks1 (NM_001039684) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mks1
Synonyms:	AK190930; avc6; B8d3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219030 representing NM\_001039684  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAAGCGGTCTGGAGCACTGACACCGCGGAGGCCGTGTATCGCTCCCGGGACCCCGTGCACAACC  
 TGCCTCCGAGTTCATCTGCAAAGAATCACATCAAGCAACTTCCTTCATTACCAGCCTGCTGCCAGAT  
 GGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCCGCAAGCTGCTAGTGGACACCGCCTGACGAA  
 GAAGAGGAGGAAGAGTTGTAATTGGATGGCAGGAAAAGCTCTTTAGCCAGTTTGAAGTCGACCTGTACC  
 AAAATGAATCCGCGTGCCAGAGCCCACTGGATCATCAGTACCAGCAAGAGATCTTGAAACTGGAGAATTC  
 TGGCGGCAGGAAAACCGCGAATCTTCACTTACACTGACTCGGATAGATACACCGACTTGAAGAGTAC  
 TGTCAGAAAATAACCACTTCAGCCAGCGAGGTGCCATCGTTTCTGGCTGAGCGGATGGCGAACGTCAGGC  
 GCGCGCGCAGGACAGGCGAGGGGTGGAGGCGAGCAAACTCAAGTCTCGGATCGTACGTTGGAAACCTC  
 GGAAGACTTCATCAAGAACAACCACTATTAACACTCCTCTTACAGACAATGTACATCATGGCGGACCTG  
 GGACCCTATGGAAAGCTTGGCTATAAGGTACATGAGCAGTGTCTGTCATCCTGAAGGTGGACAGCAATG  
 GCGTGATCACAGTGAAGCCTGACTTCACCGCATCAAAGGACCCTACAGAATCGAAACTGAGGGAGAGAA  
 GCAGGAACACACTTCTGCTTGGAAATACAAATTGACAACGTGTCTCCCTCGCACAGCCAGAGGAGGAA  
 GAGCGGGAGCAGCGAGTGTCAAGGACCTTACGGCCGGCACAAGGAGTACCTCAGCAGCCTCGTGGGCA  
 CAGACTTTGAGATGATTGCCCGAGTGCCTCCGGCTCTTTGTGAACGGAGAGGTGGTTTCAGCCCAAGG  
 CTATGAGTATGACAACCTCTACGTCCACTTCTTTGTGGAGCTGCCAGTGTAACTGGTCCAGCCCGCCA  
 TTCCAGCAGCTCTCGGGAGTAACCCAGGCTGTGCCACCAAATCCCTGGGAATGGACAAGGTGGCCTATT  
 TCTCCTTCCGTTACATTGCAAGCCTTCTTTCTGCATGAGGACGAATCGGCTGAGTCCCTCCCGGAGTG  
 GCCTGTGCTCTACTGTAAGGTCTCTCACTGGACTTCTGGCAGAGGTATCGTGTGGAAAGCTACGGGGCT  
 GTGGTGTGCCTGCCACTCCAGGATCCACACCCTGACTGTCTCCACATGGAGGCCCATGGAGCTGGGTC  
 TCGTGGCAGAGCTAAGGAGTTCTTCATTGGCGCTCTCTGGAGCTGGAGGACCCATCCTATGTGAGGAT  
 ACCAGGAACCTTCAAGGGGAGCGCCTGAGCCGCTTTGGATTCCGCACTGAGACAACGGGTACTGTCACC  
 TTCCGATTGCACTGCCTGCAGCAGTCCCGGCTTTCATGGAATCGAACTCCCTCCAGAAACAGATGCGGA  
 GTGTGTTGGACCGTCTGGAAGGTTTCAGCCAGCAGAGTCCACGCACAACGTGCTAGAAGCATTCCGTCG  
 AGCCCGGCGTCGGATGCAGGAGGCCGAGAGAGCCTCCCCAGGACCTTGTGAGCCACGGGAACGTTG  
 ACC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2009\\_h03.zip](https://cdn.origene.com/chromatograms/ja2009_h03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001039684

**Insert Size:** 1686 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_001039684.2](#), [NP\\_001034773.2](#)

**RefSeq Size:** 2365 bp

**RefSeq ORF:** 1686 bp

**Locus ID:** 380718

**UniProt ID:** [Q5SW45](#)

**Cytogenetics:** 11 C

**Gene Summary:** Component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Involved in centrosome migration to the apical cell surface during early ciliogenesis. Required for ciliary structure and function, including a role in regulating length and appropriate number through modulating centrosome duplication. Required for cell branching morphology.[UniProtKB/Swiss-Prot Function]