

## Product datasheet for **RN212800**

### **Mks1 (NM\_001034917) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mks1 (NM_001034917) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mks1
Synonyms:	MGC124860
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN212800 representing NM\_001034917  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAAGCCGCTGGAGCACTGACACCGCGGAGGCCGTGTATCGCTCCCGGGACCCCGTGCACAACC  
 TGCCTCCGAGTTCATCTGCAAAGAATCACATCAAGCAACTTCCTTCATTACCAGCCTGCTGCCAGAT  
 GGGGAAGGACCTCATAGACTTGGCCACTTTAAGCCTCCTCAAGCTGCTAGTGGACACCGCCCTGATGAA  
 GAAGAGGAGGAAGAAGTTATAATTGGGTGGCAGGAGAAGCTGTTAGCCAGTTTGAAGTTGACCTGTACC  
 AAAATGAATCCGCGTGTGAGAGCCATTAGATCATCAGTACCAGCAAGAGGTCTGAAGCTGGAGAATTC  
 TGGTGGCAGGAAAAACCGCGAATCTTCACTTACACCGACTCGGATAGATACACCGACTTAGAAGAGTAC  
 TGTCAGAAGATAACCACTTCAGCCGGCAGGCACCATCGTTTCTGGTTGAGCGGATGGCGAATGTCAGGC  
 GCGCGCCAGGACAGGCGAGGGGTGGAGGCGAGCAACTCAAGTCTCGAATCATACATGGGAGCCCTC  
 AGAAGACTTCATCAGGAACAGCCATGCTATTAACACCCCTCTTCAGACAATGTATATCATGGCAGACCTG  
 GGCCCGTATGGGAAGCTTGGCTATAAGATACATGAACATGTCCTCTGCGTCTGAAGGTGGATAGCAATG  
 GAGTGATCACAGTGAAGCCCGACTTCACTGGCATCAAAGGACCCTACAGAATCGAGACTGAGGGAGAGAA  
 GCAGGAACACACATCTGCTTGGAAATACACAATTGACAACGTGTCCTCCCTCGCACAAACCAGAGGAGAA  
 GAGCGGGAGCAGCGTGTGTTCAAGGACCTTATGGCCGCCACAAGGAGTACCTCAGCAGCCTCGTGGCA  
 CAGACTTTGAGATGATTGCCCGGGTGCCTCCGGCTCTTTGTGAATGGAGAGGTAGTCTCAGCCCGAGG  
 CTATGAGCATGACAACCTCTATGTCCACTTCTTTGTGGAGCTGCCAGCTACGAACTGGTCCAGCCCATCA  
 TTCCAGCAGCTCTCGGGAGTAACCCAGACCTGTGTACCAGATCCCTGGGAATGGACAAGGTGGCCTATT  
 TCTCCTTTCCATTACGTTTGAAGCCTTCTTCCATGAGGATGAATCAGATGAATCACTCCAGAGTG  
 GCCCGTGTCTACTGTAAGGTCTCTCACTGGACTTCTGGCAGAGGTATCGTGTGGAAAGGCTACGGGGCT  
 GTGGTGTGCCTGTACCCAGGATCACACACCTTGACTGCCTCCACGTGGAGGCCCATGGAGCTGGGCC  
 TCGTGGCAGAGCTAAGGAGGTTCTTCAATTGGTGGCTCCCTGGAGCTGGAGGACCCATCCTATGTGAGGAT  
 ACCAGGAACCTTCAAGGGGGAGCGGCTGAGCCGCTTTGGATTCCGCACTGAGACGACGGGTACGGTCACC  
 TTCCGGCTGCACTGCCTGCAGCAGTCCCGGGCTTTCATGGAATCGAACTCCCTCCGGAACAAATGAGGA  
 GTGTGTTGGACCGTCTGGAAGGATTGAGCCAGCAGAGTCCACACACAACGTGCTAGAAGCATTCCGTCG  
 AGCCCGGCCCGCATGCAGGAGGCCGAGAGAGCCTCCCCAAGACCTTGTGAGCCCCACAGGGACGCTG  
 GCT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001034917
- Insert Size:** 1686 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.

**RefSeq:** [NM\\_001034917.2](#), [NP\\_001030089.2](#)

**RefSeq Size:** 2480 bp

**RefSeq ORF:** 1686 bp

**Locus ID:** 287612

**UniProt ID:** [Q499Q5](#)

**Cytogenetics:** 10q26

**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 (By similarity). 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]