

Product datasheet for **MR220786**

Mks1 (NM_001039684) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR220786 representing NM_001039684
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGAAGCGGTCTGGAGCACTGACACCGCGGAGGCCGTGTATCGCTCCCGGACCCCGTGCACAACC
 TGCCTCCGAGTTCATCTGCAAAGAATCACATCAAGCAACTTCCTTCATTACCAGCCTGCTGCCAGAT
 GGGGAAGGACCTCATAGACTTGGCCACTTTAGGCCTCCGCAAGCTGCTAGTGGACACCGCCTGACGAA
 GAAGAGGAGGAAGAGTTGTAATTGGATGGCAGGAAAAGCTCTTTAGCCAGTTTGAAGTCGACCTGTACC
 AAAATGAATCCGCGTGCCAGAGCCCACTGGATCATCAGTACCGCAAGAGATCTTGAACTGGAGAATTC
 TGGCGGCAGGAAAACCGCGCAATCTTCACTTACACTGACTCGGATAGATACACCGACTTGAAGAGTAC
 TGTCAGAAAATAACCACTTCAGCCAGCGAGGTGCCATCGTTTCTGGCTGAGCGGATGGCAACGTCAGGC
 GCGCGCGCAGGACAGGCGAGGGGTGGAGGGCAGCAAACTCAAGTCTCGGATCGTCACGTGGGAACCTC
 GGAAGACTTCATCAAGAACAACACGCTATTAACACTCCTCTTCAGACAATGTACATCATGGCGGACCTG
 GGACCCTATGGAAAGCTTGGCTATAAGGTACATGAGCACGTGCTCTGCATCCTGAAGGTGGACAGCAATG
 GCGTGATCACAGTGAAGCCTGACTTCACCGCATCAAAGGACCCTACAGAATCGAACTGAGGGAGAGAA
 GCAGGAACACACTTCTGCTTGGAAATACAAATTGACAACGTGTCCTCCCTCGCAGCCAGAGGAGGAA
 GAGCGGGAGCAGCGAGTGTCAAGGACCTTACGGCCGGCACAAGGAGTACCTCAGCAGCCTCGTGGGCA
 CAGACTTTGAGATGATTGCCCCAGGTGCCCTCCGGCTCTTTGTGAACGGAGAGGTGGTTTCAGCCCAAGG
 CTATGAGTATGACAACCTCTACGTCCACTTCTTTGTGGAGCTGCCAGCTGCTAACTGGTCCAGCCGCCA
 TTCCAGCAGCTCTCGGGAGTAACCCAGGCTGTGCCACCAATCCCTGGGAATGGACAAGGTGGCCTATT
 TCTCCTTTCCGTTACATTGCAAGCCTTCTTTCTGCATGAGGACGAATCGGCTGAGTCCCTCCCGGAGTG
 GCCTGTGCTCTACTGTAAGGTCTCTCACTGGACTTCTGGCAGAGGTATCGTGTGGAAGGCTACGGGGCT
 GTGGTGTGCTGCCACTCCAGGATCCACACCTGACTGTCTCCACATGAGGGCCCATGGAGCTGGGTCT
 TCGTGGCAGAGCTAAGGAGGTTCTTATTGGCGGCTCTCTGGAGCTGGAGGACCCATCCTATGTGAGGAT
 ACCAGGAACCTTCAAGGGGAGCGCCTGAGCCGCTTGGATTCCGCACTGAGACAACGGGTACTGTACCC
 TTCCGATTGCACTGCCTGCAGCAGTCCCGGCTTTCATGGAATCGAACTCCCTCCAGAAACAGATGCGGA
 GTGTGTTGGACCGTCTGGAAGGTTTCAAGCAGCAGAGTCCACGCACAACGTGCTAGAAGCATTCCGTGCG
 AGCCCGGCGTCGGATGCAGGAGGCCGAGAGAGCTCCCCAGGACCTTGTGAGCCCCACGGAACGTTG
 ACC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220786 representing NM_001039684
 Red=Cloning site Green=Tags(s)

MAEAVWSTDTEAVYRSRDPVRNLRVHLQRITSSNFLHYQPAAQMGKDLIDLATFRPPQAASGHRPDE
 EEEEEVVIGWQEKLFQFEVDLYQNESACQSPLDHQYRQEILKLENSGGRKNRRIFTYTDSRDYTDLEEY
 CQKITTSASEVPSFLAERMANVRRRRQDRRGVEGSKLSRIVTWEPSEDFIKNNHAINTPLQTMIMADL
 GPYGKLGKLVHEHVLILKVDSNGVITVKPDFTGKIPYRIETEGEKQEHTSAWKYIDNVSSLAQPEEE
 EREQRVFKDLYGRHKEYLSSLVGTFEMIAPGALRLFVNGEVVSAQGYEYDNLVYHFFVELPAANWSSPP
 FQQLSGVTQACATKSLGMDKVAYFSFPFTFEAFFLHEDESAESLPEWPVLYCKVLSLDFWQRYRVEGYGA
 VVLPATPGSHTLTVSTWRPMELGLVAELRRFFIGGSLELEDPSYVRIPGTFKGERLSRFGRFTETGTVT
 FRLHCLQQSRAFMESNSLQKQMRVLDRLLEGFSQSSSTHNVLEAFRRARRRMQEARESLPQDLVSPTGTL
 T

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mm9071_d10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001039684

ORF Size: 1683 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 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

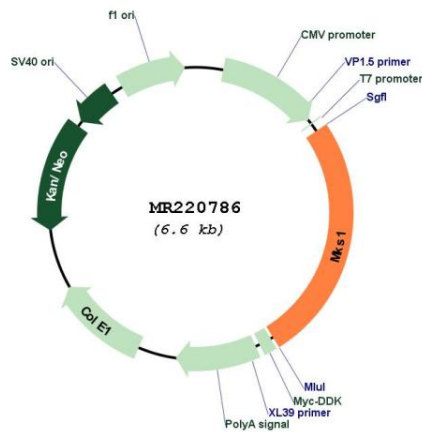
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001039684.3
RefSeq Size:	2365 bp
RefSeq ORF:	1686 bp
Locus ID:	380718
UniProt ID:	Q5SW45
Cytogenetics:	11 C
MW:	64.4 kDa
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]

Product images:



Circular map for MR220786