

## Product datasheet for **MG220786**

### **Mks1 (NM\_001039684) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mks1 (NM_001039684) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mks1
Synonyms:	AK190930; avc6; B8d3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220786 representing NM\_001039684  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGAAGCGGTCTGGAGCACTGACACCGCGGAGGCCGTGTATCGCTCCCGGGACCCCGTGCACAACC  
 TGCCTCCGAGTTCATCTGCAAAGAATCACATCAAGCAACTTCCTTATTACCAGCCTGCTGCCAGAT  
 GGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCCGCAAGCTGCTAGTGGACACCGCCTGACGAA  
 GAAGAGGAGGAAGAGTTGTAATTGGATGGCAGGAAAAGCTCTTTAGCCAGTTTGAAGTCGACCTGTACC  
 AAAACGAATCCGCGTGCCAGAGCCCACTGGATCATCAGTACCAGCAAGAGATCTTGAAACTGGAGAATTC  
 TGGCGGCAGGAAAACCGCGCAATCTTCACTTACACCGACTCGGATAGATACACCGACTTGAAGAGTAC  
 TGTCAGAAAATAACCACTTCAGCCAGCGAGGTGCCATCGTTTCTGGCTGAGCGGATGGCGAACGTCAGGC  
 GCGCGCGCAGGACAGGCGAGGGGTGGAGGGCAGCAAACCAAGTCTCGGATCGTACGTTGGAAACCTC  
 GGAAGACTTCATCAGGAACAACACGCTATTAACACTCCTCTTACAGACAATGTACATCATGGCGGACCTG  
 GGACCCTATGGAAAGCTTGGCTATAAGGTACATGAGCAGGTGCTCTGCATCCTGAAGGTGGACAGCAATG  
 GCGTGATCACAGTGAAGCCTGACTTCACCGCATCAAAGGACCCTACAGAATCGAAACTGAGGGAGAGAA  
 GCAGGAGCACACTTCTGCTTGGAAATACAAATTGACAACGTGTCTCCCTCGCACAGCCAGAGGAGGAA  
 GAGCGGGAGCAGCGAGTGTCAAGGACCTTACGGTCGGCACAAGGAGTACCTCAGCAGCCTCGTGGGCA  
 CAGACTTTGAGATGATTGCCCGAGTGCCTGCGGCTCTTTGTGAACGGAGAGGTGGTTTCAGCCCAAGG  
 CTATGAGTATGACAACCTCTACGTCCACTTCTTTGGAGCTGCCAGTGTAACTGGTCCAGCCCGCCA  
 TTCCAGCAGCTCTCGGGAGTAACCCAGGCTGTGCCACCAATCCCTGGGAATGGACAAGGTGCCCTATT  
 TCTCCTTCCGTTACATTCGAAGCCTTCTTTCTGCATGAGGACGAATCGGCTGAGTCCCTCCCGGAGTG  
 GCCTGTGCTCTACTGTAAGGTCTCTCACTGGACTTCTGGCAGAGGTATCGTGTGAAGGCTACGGGGCT  
 GTGGTGTGCCTGCCACTCCAGGATCCACACCCTGACTGTCTCCACATGGAGGCCCATGGAGCTGGGT  
 TCGTGGCAGAGCTAAGGAGTCTTCTATTGGCGCTCTCTGGAGCTGGAGGACCCATCCTATGTGAGGAT  
 ACCAGGAACCTTCAAGGGGAGCGCCTGAGCCGCTTTGGATTCCGCACTGAGACAACGGGTACTGTCACC  
 TTCCGATTGCACTGCCTGCAGCAGTCCCGGCTTTCATGGAATCGAACTCCCTCCGAAACAGATGCGGA  
 GTGTGTTGGACCGTCTGGAAGGTTTCCAGCAGCAGTTCACGCACAACGTGCTAGAAGCATTCCGTGCG  
 AGCCCGGCGTCGGATGCAGGAGGCCGAGAGAGCCTCCCCAGGACCTTGTGAGCCCCACGGGAACGTTG  
 ACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG220786 representing NM\_001039684  
 Red=Cloning site Green=Tags(s)

MAEAVWSTDTGEAVYRSRDPVRNLRVHLQRITSSNFLHYQPAAQMGKDLIDLATFRPPQAASGHRPDE  
 EEEEEVIGWQEKLSQFEVDLYQNESACQSPLDHQYRQEILKLENSGGRKNRRIFTYTDSDRYTDLEEY  
 CQKITTSASEVPSFLAERMANVRRRRQDRRGVEGSKLKSRIVTWEPSEDFIRNNHAINTPLQTMIMADL  
 GPYKGLGYKVEHVLICILKVDNSNGVITVKPDFTGKGPYRIETEGERQEHTSAWKYIDNVSSLAQPEEE  
 EREQRVFKDLYGRHKEYLSSLVGTD FEMIAPGALRLFVNGEVVSAQGYEYDNLVYHFFVELPAANWSSPP  
 FQQLSGVTQACATKSLGMDKVAYFSFPFTFEAFVFLHEDESAESLPEWVPLYCKVLSLDFWQRYRVEGYGA  
 VVLPATPGSHTLTVSTWRPMEGLVLAELRRFFIGGSLELEDPSYVRIPGTFKGERLSRFGRFTETGTVT  
 FRLHCLQQSRAFME SNLRKQMRVLDRLLEGFSQSSSTHNVLEAFRRARRRMQEARESLPQDLVSPTGTL  
 T

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001039684.2</a>, <a href="#">NP_001034773.2</a></p>
<b>RefSeq Size:</b>	<p>2365 bp</p>
<b>RefSeq ORF:</b>	<p>1686 bp</p>
<b>Locus ID:</b>	<p>380718</p>
<b>UniProt ID:</b>	<p><a href="#">Q5SW45</a></p>
<b>Cytogenetics:</b>	<p>11 C</p>
<b>Gene Summary:</b>	<p>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]</p>