

Product datasheet for **RG211884**

MKS1 (NM_017777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MKS1 (NM_017777) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MKS1
Synonyms:	BBS13; JBTS28; MES; MKS; POC12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG211884 representing NM_017777
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGAGACCGTCTGGAGCACTGACACCGGGGAGGAGTGTATCGCTCCCGGACCCCGTGCGCAACT
 TGCGCCTCCGAGTCCACCTGCAAAGAATCACATCAAGCAACTTTCTTCATTATCAGCCTGCTGCCGAGCT
 CGGGAAGGACCTCATAGACTTGGCCACTTTTAGGCCTCAGCCAAGTCCAGTGGACACCGCCAGAGGAA
 GACGAAGAGGAGGAGATTGTGATTGGGTGGCAGGAGAAGCTCTTAGCCAGTTTGAAGTAGATCTGTACC
 AAAATGAAACAGCCTGTGAGAGTCTTTGGATTATCAGTACCGTCAGGAGATCCTGAAGCTGGAGAATTC
 GGGTGGCAAGAAAAACGACGAATCTTTACCTACACTGACTCTGATAGATACACCAATTTGGAGGAGCAC
 TGTGAGAGAATGACCACTGCAGCCAGCGAGGTGCCTTCATTCTTGGTCGAGCGAATGGCAAATGTCAGGC
 GTCGCCGGCAGGACAGGCGAGGGATGGAGGGCGGCATCCTCAAGTCACGCATCGTCACCTGGGAGCCCTC
 AGAAGAGTTTGTGAGGAACAACACGTCATTAACACCCCTCTTCAGACAATGCACATCATGGCAGACCTG
 GGGCCCTATAAAAGCTTGGCTATAAGAAGTATGAACATGTCCTGTGTACTCTGAAGGTGGATAGCAATG
 GTGTGATCACAGTAAAGCCTGACTTCACGGGCCTCAAAGGACCCTACAGGATTGAGACGGAGGGGAGAA
 GCAGGAGCTGTGAAATATACGATCGACAATGTTTCCCCCACGCACAGCCGAGGAGGAGGAGCGGGAA
 CGGCGAGTGTTCAAGGATCTTTATGGCCGGCACAAGGAGTATCTCAGCAGCCTCGTAGGCACCGACTTTG
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 TGACAATCTCTACGTCCACTTCTTTGTAGAATTGCCAAGTGTCACTGGTCAAGCCAGCATTCCAGCAG
 CTCTCAGGAGTAACACAGACCTGCACCACCAAGTCCCTGGCAATGGACAAGGTGGCTCACTTCTCCTACC
 CATTACGTTTGAAGCCTTCTTCTCCATGAGGATGAATCTTCTGATGCCTCCCGAGTGGCCTGTGCT
 CTACTGTGAGGTCTCTCGCTGGACTTCTGGCAGAGGTACCGTGTGGAAGGCTATGGGGCTGTGGTGCTG
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 AGCTGAGGAGGTTTTTCTTGGCGGTTCTCTGGAAGTGGAGGACCTCTCCTATGTACGGATACCAGGATC
 CTTCAAGGGGAACGCCTGAGCCGCTTTGGACTCCGCACAGAGACCACAGGCACTGTACCTTCCGCTTG
 CACTGTCTGCAGAGTCCAGGGCCTTCATGGAATCGAGTCCCTTCAGAAAAGGATGCGGAGTGTGTTGG
 ACCGTCTGGAAGGTTTCCAGCCAGCAGAGTTCATTACAATGTGTAGAGGCCTTCGTCGAGCCCGGCG
 CCGCATGACGAGGCCCCGGAAAGCCTCCCGCAGGACCTAGTGAGCCCTCTGGAACCTGGTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

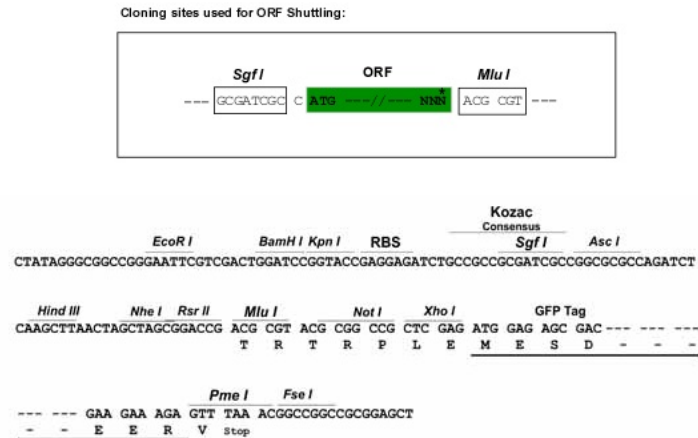
>RG211884 representing NM_017777
 Red=Cloning site Green=Tags(s)

MAETVWSTDTEAVYRSRDPVRNLRRLRHLQRITSSNFLHYQPAELGKDLIDLATFRPQPTASGHRPEE
 DEEEEIVIGWQEKLFSSQFEVDLYQNETACQSPLDYQYRQEILKLENSGGKKNRRIFTYTDSRYTNLEEH
 CQRMTTAASEVPSFLVERMANVRRRRQDRRGMEGILKSRIVTWEPSEEFVRNNHVINTPLQTMHIMADL
 GPYKKLGYKKYEHVLC TLKVD SNGVITVKPDTGLKGPYRIETEGEKQELWKYIDNVSPHAQPEEEERE
 RRVFKDL YGRHKEYL SSLVGTDFEMTVPGALRLFVNGEVVS AQGYE DNLYVHFFVELPTAHWSSPAFQQ
 LSGVTQTCTTKSLAMDKVAHFSYPFTFEAFFLHEDESSDALPEWPVLYCEVLSLDFWQRYRVEGYGAVVL
 PATPGSHTLTVSTWRPVELGTVAELRRFFIGGSLELEDLSYVRIPGSFKGERLSRFGLRTETTTGTVTFRL
 HCLQQSRAFMESSSLQKRMRSVLDRLGFSQSSIHNVLEAFRRARRRMQEARESLPQDLVSPSGTLVS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017777

ORF Size: 1677 bp

OTI Disclaimer: 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.

RefSeq: [NM_017777.4](#)

RefSeq Size: 2402 bp

RefSeq ORF: 1680 bp

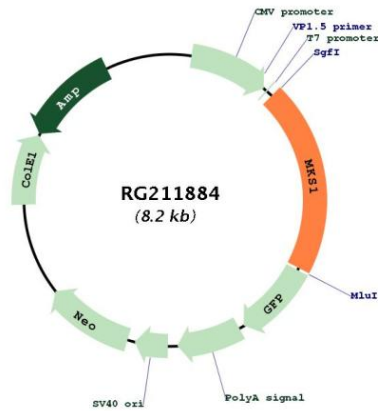
Locus ID: 54903

UniProt ID: [Q9NXB0](#)

Cytogenetics: 17q22

Gene Summary: The protein encoded by this gene localizes to the basal body and is required for formation of the primary cilium in ciliated epithelial cells. Mutations in this gene result in Meckel syndrome type 1 and in Bardet-Biedl syndrome type 13. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RG211884