

Product datasheet for RC229402

Meckelin (TMEM67) (NM_153704) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meckelin (TMEM67) (NM_153704) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Meckelin
Synonyms:	JBTS6; MECKELIN; MKS3; NPHP11; TNEM67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229402 representing NM_153704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGACGCGCGGTGGGGCTGGGGTGGCAATGGCGGTTTGGTCCCTCTTATCCGCCCGGGCCGTGACCG
 CGTTCCTTCTGTTGTTCCCTCGCTTCTTACAGGCCAGACCTTCTCTTCCCTTCCAGCAGCCGGA
 GAAGTGCAGACAACACAGTACTTTGATATCTCCGCCCTCTCGTGTTCCTTGTGGAGCTAACCAGAGG
 CAAGATGCCCGAGGAACCTCATGTGTATGTCTACCAGGATTTAGATGATCTCTAATAATGGAGGACCTG
 CTATTATTTGTAAGTGGCCAGAAAACATGAAAGGTGTACAGAAGATGGCTGGAAGTGCATTTCTTG
 CCTAGTGACTTAAGTGCAGGAAAGTGTCACTGTCCCATTTGGCCATATTTAGTGGAAAGAGACATT
 AATGGAACATTGTTGTCTCAAGCAACTGTGAGCTCTGTGATGGAATGAAACTCTTTATGGTAGTAA
 ATGCTTTAGGAGACAGGTGCGTCCGATGTGAGCCAACATTTGTTAATACCAGCAGGTCTGTGCATGTT
 AGAACCTAACATTTTACAGGGGATTATGTTTACGACGACAGGGAATTTCTCTACGTAGAATTTCA
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 CAGCTGCATGTTGGGTATATGCAATCTAACATCTGTCAAGCTCTTGAAATATGTGTGTGATGAACAT
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GCCTACAGTGACATTGATATCAAAGATGCCAACAGCCAGTCTGTGAAGGTTTCTTTCTCAGTCACATATG
 AAATGGATCATGGAGAAGCACATGTCCAGACAGATATTGCTTTGGGTGTATTGGGTGGGCTAGCTGTTTT
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 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RC229402 representing NM_153704
 Red=Cloning site Green=Tags(s)

MATRGAGVAMAVSLLSARAVTAFLLFLPRFLQAQTFSPFPQPEKCDNNQYFDISALSCVPCGANQR
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 NGTLLSQATCELCDGNENSMVYNALGDRVCPTFVNTRSRSCACSEPNILTGGLCFSSSTGNFPLRRIS
 AARYGEVGMSTSEWFAKYLQSSAAACWYANLTSCQALGNMCMNMNSYDFATFDACGLFQFIFENTAG
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 AYSDIDIKDANSQSVKVSFSVTYEMDHGEAHVQTDIALGVLGGLAVLASLLKTAGWKRRIGSPMIDLQTV
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 QITIDVFFIDWERPKGKVLKAVEGEGVRSATVPVSIWRTYFVANEWNEIQTVRKINSLFQVLTVLFFLE
 VVGFKNLALMDSSSSLSRNPPSYIAPYSCILRYAVSAALWLAIGIIVVFFAVFYERFIEDKIRQFVDC
 SMSNISVFLLSHKCFGYIIGHRSVHGHADTNMEEMNMNLKREAENLCSQRGLVPNTDQGTFEIAISNQMR
 QHYDRIHETLIRKNGPARLLSSASTFEQSIKAYHMMNKFLGSFIDHVKEMDYFIKDKLLERILGMEF
 MEPMEKSIFYNDEGYSFSSVLYGNEATLLIFDLLFFCVVDLACQNFILASFLTYLQEIIFRYIRNTVGO
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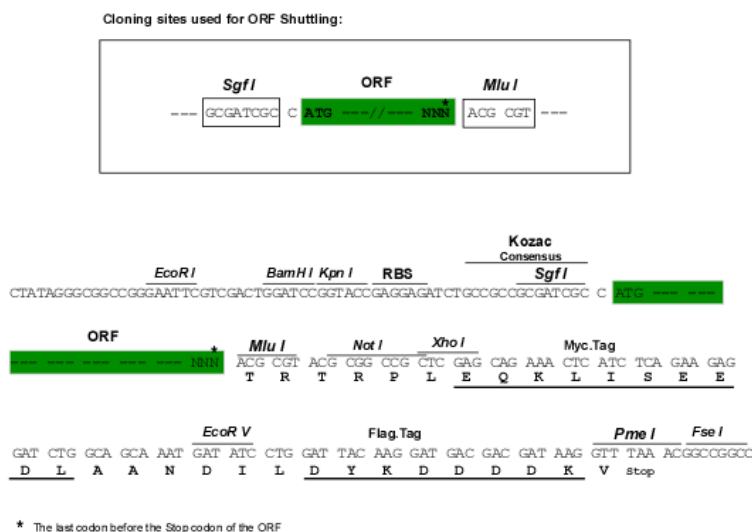
Chromatograms:

https://cdn.origene.com/chromatograms/mk8012_g04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 153704

ORF Size: 2985 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.

RefSeq: [NM_153704.6](#)

RefSeq ORF: 2988 bp

Locus ID: 91147

UniProt ID: [Q5HYA8](#)

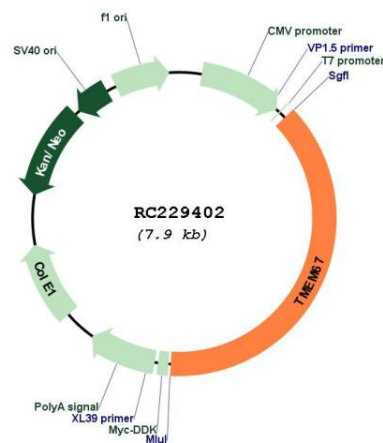
Cytogenetics: 8q22.1

Protein Families: Transmembrane

MW: 111.6 kDa

Gene Summary: The protein encoded by this gene localizes to the primary cilium and to the plasma membrane. The gene functions in centriole migration to the apical membrane and formation of the primary cilium. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in this gene are a cause of Meckel syndrome type 3 (MKS3) and Joubert syndrome type 6 (JBTS6). [provided by RefSeq, Nov 2008]

Product images:



Circular map for RC229402