

Product datasheet for **SC100509**

Meckelin (TMEM67) (NM_153704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meckelin (TMEM67) (NM_153704) Human Untagged Clone
Tag:	Tag Free
Symbol:	Meckelin
Synonyms:	JBTS6; MECKELIN; MKS3; NPHP11; TNEM67
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC100509 sequence for NM_153704 edited (data generated by NextGen Sequencing)

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ATGGCGACGCGCGGTGGGGCTGGGGTGGCAATGGCGGTTTGGTCCCTCTTATCCGCCCGGGCCGTGACCG
CGTTCCTTCTGTGTTCCCTCCCTCGCTTCTTACAGGCCCAGACCTTCTCTTCCCTTTCCAGCAGCCGGA
GAAGTGGCACAACAACCACTACTTTGATATCTCCGCCCTCTCGTGTGTTCCCTGTGGAGCTAACCCAGAG
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TATTTTAGCATCCTTCTTACATATCTACAACAAGAGATTTTATAGATATATCCGTAATACAGTAGGACAA
AAGAATTTGGCATCCAAAACATTGGTGGATCAAAGATTTTGTATTAA
    
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Clone variation with respect to NM_153704.5

Restriction Sites: Please inquire

ACCN:	NM_153704
Insert Size:	3300 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_153704.3.
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:	<ol style="list-style-type: none"> 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:	<u>NM_153704.3</u> , <u>NP_714915.2</u>
RefSeq Size:	4744 bp
RefSeq ORF:	2988 bp
Locus ID:	91147
UniProt ID:	<u>Q5HYA8</u>
Cytogenetics:	8q22.1
Protein Families:	Transmembrane

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer protein (isoform 1).