

Product datasheet for **SC326284**

Meckelin (TMEM67) (NM_001142301) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meckelin (TMEM67) (NM_001142301) Human Untagged Clone
Tag:	Tag Free
Symbol:	Meckelin
Synonyms:	JBTS6; MECKELIN; MKS3; NPHP11; TNEM67
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001142301, the custom clone sequence may differ by one or more nucleotides

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ATGTCACTGTCCCATTGGCCATATTTTAGGCTGGTCTTGAACCTCCGACCTCAGGTGATC
TGCCTGCCTCAGCCTCCCAAAGTGTGGGATACAGGCTTGAGCCACCGCACCTGACCTTG
GCATGACTTTAGAAGGAATGTACAACATAATTGAAGAAATTTGGAAAGAGACATTAAT
GGAACATTGTTGTCTCAAGCAACTTGTGAGCTCTGTGATGGAAATGAAAACCTCTTTTATG
GTAGTAAATGCTTTAGGAGACAGGTGCGTCCGATGTGAGCCAACATTTGTTAATACCAGC
AGGTCCTGTGCATGTTTCAAGAACCTAACATTTTAAACAGGGGATTATGTTTCAGCAGCACA
GGGAATTTTCTCTACGTAGAATTTTCTGCTGCACGTTATGGAGAAGTTGGCATGTCTTTA
ACTTCAGAATGGTTTGCAAAGTATTTGCAATCATCAGCAGCTGCATGTTGGGTATATGCC
AATCTAACATCTTGTCAAGCTCTTGAAATATGTGTGTGATGAACATGAATCTTACGAC
TTTGCCACATTTGATGCATGTGGACTATTTTCTGTTTATCTTTGAAAATACTGCTGGACTG
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AATTTTCTCAAGTGGCAAACCTTTAGAAGGAGGTGTTTTACAGCTTTGTCAGACACAGAG
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CTACAATTTTGCATAAGCTCATATCCCAGATTACAATAGATGTATTCTTTATTGATTGG
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GCCATTGGAAATATACAGGTCGTGTTCTTTGCTGTCTTTTATGAGAGATTTATAGAAGAT
AAAATTCGACAGTTTCGTTGATTTATGCTCTATGAGTAATATATCAGTGTCTGTTATCC
CACAAATGTTTTGGATATTACATTCATGGTAGATCAGTACATGGGCATGCAGATACTAAT
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CATTATGACAGAATTCATGAGACTAATAAGGAAAAATGGTCTGCTAGACTACTGAGT
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GATGAAGGTTATCTTTTCAAGCAGTGTCTGTATTATGGAATGAAGCTACTCTTCTTATT
TTTGATCTGCTGTTCTTCTGTGTTGTGGATTTGGCTTGCCAAAATTTTATTTTAGCATCC
TTCTTACATATCTACAACAAGAGATTTTATAGATATATCCGTAATACAGTAGGACAAAAG
AATTTGGCATCCAAAACATTGGTGGATCAAAGATTTTTGATT

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Restriction Sites: Please inquire
ACCN: NM_001142301

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001142301.1, NP_001135773.1</u>
RefSeq Size:	4675 bp
RefSeq ORF:	2745 bp
Locus ID:	91147
UniProt ID:	<u>Q5HYA8</u>
Cytogenetics:	8q22.1
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate splice pattern in the 5' coding region. The resulting isoform (2) has a shorter and distinct N-terminus, compared to isoform 1.</p>