

Product datasheet for **RC226799**

Meckelin (TMEM67) (NM_001142301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Meckelin (TMEM67) (NM_001142301) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC226799 representing NM_001142301
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCACTGTCCCATTGGCCATATTTTAGGCTGGTCTTGAACCTCCGACCTCAGGTGATCTGCCTGCCTC
 AGCCTCCCAAAGTGTGGGATACAGGCTTGAGCCACCGCACCTGACCTTGGCATGTACTTTAGAAGGAAT
 GTACAACATAATTGAAGAAATTTTGAAAAGAGACATTAATGGAACATTGTTGTCTCAAGCAACTGTGAG
 CTCTGTGATGGAAATGAAAACCTTTTATGGTAGTAAATGCTTTAGGAGACAGGTGCGTCCGATGTGAGC
 CAACATTTGTTAATACCAGCAGGTCTGTGCATGTTTCAAGAACCTAACATTTAACAGGGGATTATGTTT
 CAGCAGCACAGGGAAATTTCTCTACGTAGAATTTAGCTGCACGTTATGGAGAAGTTGGCATGTCTTTA
 ACTTCAGAATGGTTTGCAAAGTATTTGCAATCATCAGCAGCTGCATGTTGGGTATATGCCAATCTAACAT
 CTTGTCAAGCTCTTGAAATATGTGTGTGATGAACATGAATTCACGACTTTGCCACATTTGATGCATG
 TGGACTATTTAGTTTATCTTTGAAAATACTGCTGGACTGAGCACTGTTTATTCTATTTTGGAGA
 CAGAATCTTCTTGGCTGTTTTATGGAGACCAGTTAGGATTAGCACCTCAAGTGCTCAGTTCTACCTCTC
 TTCTACAAAATTTAGTTTTAAAGGAGAAAACCAGAATACAAAACCTGAAGTTTGTGCTGCTTCTATGA
 TATAAGAGGAAATTTCTCAAGTGGCAAATTTAGAAGGAGGTGTTTTACAGCTTTGTCAGACACAGAG
 ACAAGGCTAAATGCTGCTTATTCATTTGGAACAACCTACCAACAAAATTTGAGATTCTCTAATCTAAGA
 TCTTAATTGACTTTCCCACTCCTATATTTATGATGTGTACCTTGAATATACTGATGAAAATCAACATCA
 ATATATTTGGCTGTGCCTGTGTTAAACCTAAATCTTCAACATAATAAGATATTTGTGAACCAAGACAGC
 AACTCTGGAAGTGGCTTCTAACTCGGCGCATTTTCTTAGTGGATGCAGTAAGTGGACGAGAAAAATGACT
 TAGGAACCTCAGCAAGAGTAATTCGAGTTGCTACTCAAATCACTGAGTGTCCACCTTTGACCCAACAC
 AATAAATGGAAAACATCTACCCTCCCTTAATCACCAATTGCCTACAGTGACATTGATATCAAAGATGCCAAC
 AGCCAGCTGTGAAGTTTCTTTCTCAGTCACATATGAAATGGATCATGGAGAAGCACATGTCCAGACAG
 ATATTGCTTTGGGTGATTGGGTGGGCTAGCTGTTTTAGCATCTTTTTGAAACAGCAGGATGGAAGAG
 GCGCATTGGGAGTCCCATGATTGATTTACAGACAGTTGTGAAATCTTGGTGTACTATGCTGGTGTCTG
 GCCAATGTTTTCTTTATCATCACAGTGGGAACAGGTCTTACTGGCTATTTTTCTCAAAGCACAGAAGT
 CTGTGTCTGTTTTGCTGCCAATGCCAATTCAGGAAGAACGTTTTGTCACCTATGTTGGATGTGCCTTTGC
 TCTGAAGGCACTACAATTTTGCATAAGCTCATATCCAGATTACAATAGATGTATTCTTTATTGATTGG
 GAGCGACCTAAAGGAAAGTTCTTAAAGCTGTTGAAGGTGAGGGTGGTGTACGAAGTGCCACTGTTCTCTG
 TAAGCATATGGAGAACATATTTGTAGCAAATGAATGGAATGAAATTCAGACTGTGAGAAAAATTAATTC
 ACTCTTTCAAGTACTTACTGTCCTCTTCTTTTGGAGGTTGTGGGATTCAAGAACTTAGCATTAAATGGAC
 TCATCTTCTAGTCTTTCTAGAAACCCACCTAGCTACATAGCTCCTTATAGCTGCATTTTGGAGATGCGAG
 TGTCTGCTGCTTTTGGCTAGCCATTGGAATTATACAGGTCGTGTTCTTTGCTGTCTTTTATGAGAGATT
 TATAGAAGATAAAATTCGACAGTTTCGTTGATTTATGCTCTATGAGTAATATACAGTGTCTTCTGTTATCC
 CACAAATGTTTTGGATATTACATTCATGGTAGATCAGTACATGGGCATGCAGATACTAATATGGAAGAAA
 TGAATATGAACCTTAAAAGAGAAGCGGAAAATTTGTGTAGCCAGAGAGGTTTGGTACCAACACAGATGG
 TCAGACTTTTGGATTGCAATTTCTAACCAGATGAGACAACATTATGACAGAATTCATGAGACACTAATA
 AGGAAAAATGGTCTGCTAGACTACTGAGTTCATCAGCAAGTACTTTTGGCAGAGATATAAAGCATATC
 ATATGATGAATAAATTTCTTGGCTCCTTATTGACCATGTTTATGAAATGGATTACTTTATAAAGA
 TAAGTTGCTTCTTGAAGAATTCTTGGAAATGGAATTCATGGAACCAATGGAAAAAGCATCTTTTACAAT
 GATGAAGTTATTCTTTAGCAGTGTCTGTATTATGAAATGAAGTACTCTTCTTATTTTGTCTGCTG
 TGTTCTTCTGTGTGGATTGGCTTGCCAAAATTTATTTTAGCATCCTTCTTACATATCTACAACA
 AGAGATTTTATAGATATATCCGTAATACAGTAGGACAAAAGAATTTGGCATCCAAAACATTGGTGGATCAA
 AGATTTTGTATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

Protein Sequence: >RC226799 representing NM_001142301
 Red=Cloning site Green=Tags(s)

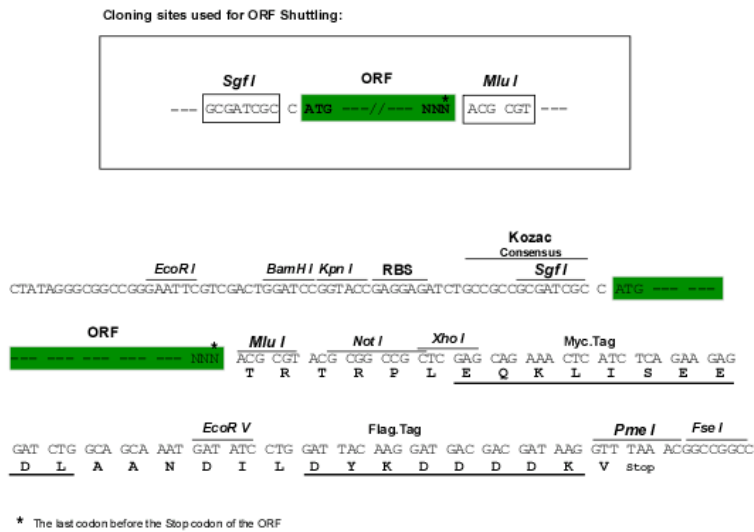
MSLSHWPYFRLVLNFRPQVICLPQPPKVLGYRLEPPHLTLACTLEGMYNIIIEEILERDINGTLLSQATCE
 LCDGNENSMFVVNALGDRVCVRCEPTFVNTSRSCACSEPNILTGGLCFSSSTGNFPLRRISAARYGEVGM
 TSEWFAKYLQSSAAACWVYANLTSCQALGNMCMVMNMSYDFATFDACGLFQFIFENTAGLSTVHSISFWR
 QNLPWLFYGDQLGLAPQVLSSTSLPTNFSFKGENQNTLKFVAASYDIRGNFLKWQTLGGVQLQCPDTE
 TRLNAAYSFGTTYQNCCEIPISKILIDFPPIFYDVYLEYTDENQHQYILAVPVLNLNLQHNKIFVNDQDS
 NSGKWLTRRIFLVDVAVSGRENLDGTQPRVIRVATQISLSVHLPNTINGNIYPPPLITIAYSIDIDIKDAN
 SQSVKVSFSVTYEMDHGEAHVQTDIALGVLGGLAVLASLLKTAGWKRRIGSPMIDLQTVVKFLVYVAGDL
 ANVFFIITVGTGLYWLIFFFKAQKSVSVLLPMPIQEERFVTVYGCAFALKALQFLHKLISQITIDVFFIDW
 ERPKGKVLKAVEGEGGVSATVPVSIWRTYFVANEWNEIQTVRKINSLFQVLTVFFLEVVGFKNLALMD
 SSSSLSRNPPSYIAPYSCILRYAVSAALWLAIGIIQVFFAVFYERFIEDKIRQFVLDLCSMSNISVFLLS
 HKCFGYIHDRSVHGHADTNMEEMNMLKREAENLCSQRGLVPNTDGQTFEIAISNQMRQHYDRIHETLI
 RKNGPARLLSSASTFEQSIKAYHMMNKFLGSFIDHVKEMDYFIKDKLLLERILGMEFMEPMEKSIFYN
 DEGYSFSSVLYGNEATLLIFDLLFFCVVDLACQNFILASFLTYLQEQEIFRYIRNTVGVQKNLASKTLVDQ
 RFLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

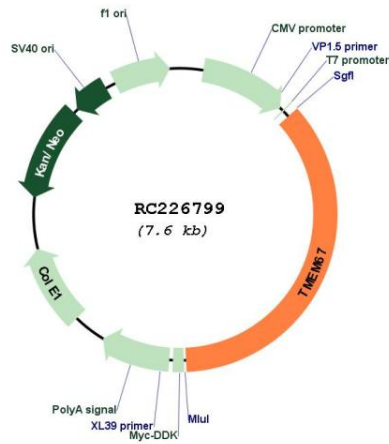


ACCN: NM_001142301

ORF Size: 2742 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:	<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:	NM_001142301.1 , NP_001135773.1
RefSeq ORF:	2745 bp
Locus ID:	91147
UniProt ID:	Q5HYA8
Cytogenetics:	8q22.1
Protein Families:	Transmembrane
MW:	103.4 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 RC226799