

Product datasheet for **SC315524**

TMEM231 (NM_001077418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM231 (NM_001077418) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM231
Synonyms:	ALYE870; JBTS20; MKS11; PRO1886
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315524 representing NM_001077418. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGCGCTCTATGAGCTTTCTCTCACCCGGTCGAGCGCAGTTACCGCGCGGGGCTCTGCTCCAAAGCC
 GCGCTGTTCTGCTGCTGGCCGCTGCGCTCACGTACATCCCGCCGCTGCTGGTGGCCTTCCGGAGCCAC
 GGGTTTTGGCTGAAGCGGAGCAGCTACGAGGAGCAGCCGACCGTGCCTTCCAACACCAGGTGCTGCTC
 GTGGCCCTGCTCGGACCCGAAAGCGACGGGTTCTCGCTGGAGCACGTTCCCGCCTTCAACCGGCTG
 CAAGGGGATCGCCTGCGCTCCCGCTCGTTTCGACTAGAGAAGAAGACAGGAACCAGGATGGGAAGACG
 GACATGTTACATTTTAAGCTGGAGCTTCCCTGCAGTCCACGGAGCACGTTCTCGGTGTGCAGCTCATC
 CTGACTTTCTCCTATCGATTACACAGGATGGCGACCCTCGTGATGCAGAGCATGGCGTTTCTCCAGTCC
 TCCTTTCTGTCCCGGGATCCCAGTTATACGTGAACGGAGACCTGAGGCTGCAGCAGAAGCAGCCGCTG
 AGCTGTGGTGGCCTAGATGCCCGATACAACATATCCGTGATCAACGGGACCAGCCCTTTGCCTATGAC
 TACGACCTCACCATATTGTTGCTGCCTACCAGGAGAGGAACGTTACCACCGTCTGAATGATCCCAAC
 CCCATCTGGCTGGTGGGAGGGCCGAGATGCTCCATTTGTGATTAATGCTATCATCCGATACCTGTG
 GAAGTCATTTCTTATCAGCCAGGATTCTGGGAGATGGTAAAGTTCGCCTGGGTGCAGTATGTCAGCATC
 CTGCTTATCTTCTCTGGGTGTTTGAAGAATCAAGATCTTCGTGTTTCAGAATCAGGTGGTGACCACC
 ATTCTGTGACAGTGACCCCCGGGGAGACTTGTGAAGGAGCACTTATCC**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001077418
Insert Size:	951 bp


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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:	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_001077418.2</u>
RefSeq Size:	2925 bp
RefSeq ORF:	951 bp
Locus ID:	79583
UniProt ID:	<u>Q9H6L2</u>
Cytogenetics:	16q23.1
Protein Families:	Transmembrane
MW:	36.1 kDa
Gene Summary:	This gene encodes a transmembrane protein, which is a component of the B9 complex involved in the formation of the diffusion barrier between the cilia and plasma membrane. Mutations in this gene cause Joubert syndrome (JBTS). Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013] Transcript Variant: This variant (2) uses an alternate splice junction in the 5' coding region which causes translation initiation at an alternate start codon compared to variant 1. The encoded isoform (2) is shorter than isoform 1.