

## Product datasheet for **SC304205**

### TMEM41B (NM\_015012) Human Untagged Clone

#### Product data:

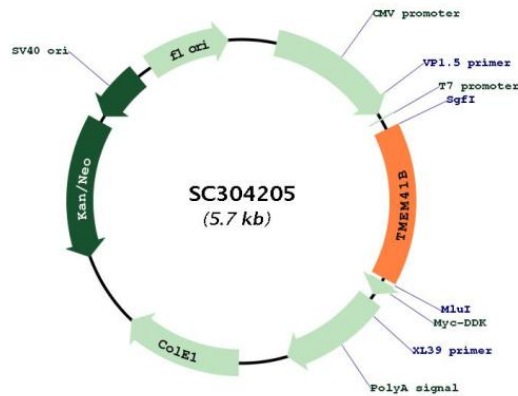
Product Type:	Expression Plasmids
Product Name:	TMEM41B (NM_015012) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM41B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304205 representing NM_015012. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGAAAGGCAGAGTCGCCGAACGATCGCAGTTGGGCGCTCACCACACGACCCCGTGGGGGACGGG
GCAGCGGGGACGCGGGGTCTCGCGGCGCCTGGCAGCAGAGACCACCAGAAGGAAAAATCCTGGGTAGAA
GCTGGATCAGCAAGAATGTCACCTCTTATATTGGTGTCCATTTTCTATCTGCAGCTTTTGTATGTTT
TTGGTATATAAAAATTTTCTCAGCTTAGTGAAGAAGAAAGAGTGAATATGAAGTTCCAGAGATATG
GATGATGCCAAGGCTCTAGGAAAAGTTTATCCAATACAAGGACACCTTTTATGTTCAAGTACTTGTA
GCTTATTTTCTACATATATTTTCTTCAAACATTTGCTATTCCAGGCTCTATATTCTCAGTATACTC
TCAGGTTTCTTTATCCCTTCCACTAGCCTTATTTCTTGTGTTGTTGTTCTGGACTTGGTGCCTCT
TTCTGTTATATGCTTTCTATTTAGTTGGGAGACCAGTTGTATACAAATACCTAACAGAGAAAGCAGTA
AAATGGTCACAGCAGTTGAACGTCATAGAGAACATCTCATTAACTACATTATATTTTTGAGAATAACA
CCATTTCTGCCTAATTGGTTTATTAATACACATCTCCTGTGATAAACGTGCCATTGAAAGTTTTTTTT
ATTGGTACTTTTCTAGGTGTGCGACCTCTTTCTTTGTAGCCATTAAGGCAGGAACAACACTGTATCAA
CTTACAACAGCAGGAGAAGCTGTTTCTGGAACCAATATTTATCTGATGATCTGGCTGTTCTTTCT
ATTCTGCCAGCCATCTTCAAAAAAACTAAAGCAGAAATTTGAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



## Plasmid Map:



ACCN: NM\_015012

Insert Size: 876 bp

**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: [NM\\_015012.3](#)

RefSeq Size: 3973 bp

RefSeq ORF:	876 bp
Locus ID:	440026
UniProt ID:	<a href="#">Q5BJD5</a>
Cytogenetics:	11p15.4
Protein Families:	Transmembrane
MW:	32.5 kDa
Gene Summary:	<p>Required for normal motor neuron development (By similarity). Required for autophagosome formation (PubMed:30093494).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>