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Product datasheet for SC112014

TMC7 (NM_024847) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMC7 (NM_024847) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMC7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>NCBI ORF sequence for NM_024847, the custom clone sequence may differ by one or more nucleotides

ATGAGCGAGTCCAGCGGCAGTGCGCTCCAGCCCGGCAGGCCCAGCCGGCAGCCGGCGGTCCATCCAGAGA
ACCTCTCTCTAGACTCCAGTTGCTTCTCTTCTCCACCTGTGAACTTCCTCCAAGAATTGCCAAGCTACCG
GTCCATTGCACGTAGGAGAACGACTGTCCATTCCCGGGACAAGCAAAGCGGAACTTTGCTAAAGCCAACC
GACTCTTACAGCTCCCAGCTGGAGGACAGAATCGCTGAAAACCTCAGCAGCCATTCTCTTCGAAATTATG
CACTGAACATCTCTGAGAAGCGGAGACTAAGGGACATTCAAGAGACACAAATGAAGTATCTCTCCGAATG
GGACCAGTGGAAGCGGTATAGCAGCAAGTCTTGGAAGAGGTTCCTAGAGAAGGCTCGAGAGATGACGACC
CACCTGGAGCTGTGGCGGGAGGACATCCGCAGCATAGAAGGGAAATTTGGCACTGGGATTCAGTCCTATT
TCTCCTTCTTGAGATTCCTGGTGTTGCTGAATTTGGTGATATTTCTGATCATCTTTATGCTGGTTTTGCT
CCCAGTCTTACTCACGAAATACAAGATCACCAACAGCAGCTTCGTGCTCATTCCTTTCAAAGACATGGAT
AAACAATGTACAGTCTATCCAGTAAGCAGTTCTGGACTCATTTACTTTTACAGTTATATCATAGACTTGC
TTTCTGGCACTGGTTTCCTGGAGGAAACTAGCCTCTTTTACGGACATTACACCATTGATGGGGTGAAATT
TCAGAACTTCACCTATGATCTGCCCCTGGCGTATTTGTTAAGCACAATCGCCTCCCTGGCCCTGAGCCTT
CTTTGGATAGTGAAAAGGTCGGTGGAAGGATTCAAAATCAACCTGATTCGGAGTGAGGAGCACTTTCAGA
GTTACTGCAACAAGATATTTGCCGGCTGGGACTTCTGCATCACTAACCGCAGCATGGCGGATCTGAAGCA
CAGCAGCTTGCGGTACGAGCTCCGAGCAGATCTGGAGGAAGAAAGAATGCGGCAGAAAATAGCAGAAAGG
ACCTCAGAAGAAACAATACGCATTTACTCTTTGAGACTGTTTTTGAACTGTATTGTTCTGGCTGTTTTAG
GGGCATGCTTTTATGCAATATACGTAGCAACTGTCTTCTCGCAAGAGCACATGAAAAAGGAAATCGACAA
GATGGTTTTTGGAGAGAACCTCTTCATATTGTATCTACCGTCTATTGTGATCACGCTGGCCAATTTTATC
ACCCCAATGATCTTTGCCAAGATCATCCGCTATGAGGATTATTCTCCAGGCTTTGAGATCCGTCTGACAA
TCCTTAGGTGTGTCTTTATGCGGCTGGCCACCATATGTGTCCTGGTGTTCACGCTGGGCTCCAAGATCAC
ATCCTGTGATGATGACACATGTGACCTTTGCGGCTACAACCAGAAACTCTACCCGTGCTGGGAGACCCAA
GTTGGGCAGGAAATGTACAAGCTGATGATCTTCGACTTCATCATCATCTTGGCTGTGACACTCTTCGTGG
ATTTTCCTAGAAAGCTCCTGGTGACCTACTGTTCCTCTTGCAAGCTGATTCAGTGCTGGGGGCAGCAGGA
GTTTGCCATTCCTGATAACGTCCTGGGGATAGTTTACGGGCAAACCATCTGCTGGATCGGAGCCTTTTTC
TCACCCCTTCTCCCTGCAATTGCAACCCTGAAATTCATTATCATCTTCTATGTGAAAGAGTGGAGTCTGC
TTTACACCTGCAGACCCTCCCCCAGGCCGTTCAGAGCATCCAATTCTAATTTCTTCTTCCTGTTGGTGTT
GTTGATCGGGCTGTGTTTGGCAATAATACCTCTGACAATCAGCATATCACGCATCCCTTCCTCGAAAGCC
TGTGGGCCGTTCACCAACTTCAACACCACCTGGGAGGTCATCCCCAAGACGGTGAGCACCTTCCCCAGCT
CGCTGCAGTCCTTCATCCATGGTGTCACATCCGAAGCCTTTGCAGTTCCTTTCTTCATGATTATTTGCCT
CATCATGTTTTACTTCATTGCCTTAGCTGGAGCACACAAACGGGTGGTCATCCAGCTCCGAGAGCAGCTA
TCCCTGGAAAGTCGTGACAAGTGCTACCTAATCCAGAAACTAACAGAAGCCCAAAGGGACATGAGGAACT
AA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024847 unedited
CCCCGTCAGATTTGTACACGATCATATAGGCGGCCGCGCAATCGGCACGAGGCTGAATTT
GGTGATATTTCTGATCATCTTTATGCTGGTTTTGCTCCCAGTCTTACTCACGAAATACAA
GATCACCAACAGCAGCTTCGTGCTCATTCCTTTCAAAGACATGGATAAACAATGTACAGT
CTATCCAGTAAGCAGTTCTGGACTCATTTACTTTTACAGTTATATCATAGACTTGCTTTC
TGGCACTGGTTTCCTGGAGGAAACTAGCCTCTTTTACGGACATTACACCATTGATGAGGT
GAAATTTCAGAACTTCACCTATGATCTGCCCCTGGCGTATTTGTTAAGCACAATCGCCTC
CCTGGCCCTGAGCCTTCTTTGGATAGTGAAAAGGTCGGTGGAAGGATTCAAAATCAACCT
GATTCGGAGTGAGGAGCACTTTCAGAGTTACTGCAACAAGATATTTGCCGGCTGGGACTT
CTGCATCACTAACCGCAGCATGGCGGATCTGAAGCACAGCAGCTTGCGGTACGAGCTCCG
AGCAGATCTGGAGGAAGAAAGAATGCGGCAGAAAATAGCAGAAAGGACCTCAGAAGAAAC
AATACGCATTTACTCTTTGAGACTGTTTTTGAACTGTATTGTTCTGGCTGTTTTAGGGGC
ATGCTTTTATGCAATATACGTAGCAACTGTCTTCTCGCAAGAGCACATGAAAAAGGAAAT
CGACCAGACGGTTTTTGGAGAGAACCTCTTCATATTGTATCTACCGTCTATTGTGATCAC
GCTGGCCAATTTTATCACCCCCATGATCTTTGCCCAGAGCATCCGCTATGAGGATTATTC
TCCAGGCTTTGAGATGCGTCTGACATCCTTAGTGTGTCTATAGCGGCTGGCCACAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024847 unedited
GCGCCGTCTATTTGAGTTGTAAGGCACATTCTGTTAGNATGTAGCTGCCTTTTAAAAATT
ATACAGACATCACCTGAAGTTATTAAAGTTATCAAAACATATTAAAAACCTTCAAGTAAG
AGGTATGCATATTAGCAGCATTTAACTAAAATTAATATATTAATTAGCATATTTCAGTAT
CACTTTTATAATAGGAAAAAAAACGCAGTACGTTTTCGTTGTGTTCATCACACACACACA
CACACACACACACACAAATAGAAAACTTGAATATCATCAAGTCTGGTCACAGTGAAAATG
TTATATAAATATAAAGGCACTGGGCAGAAATGTTTACAATTACAACTTTTTTTTTCTTTT
CACCTATCTTTTTTTTTGAGATAGGGTCTCCCTCTGTCACCTATGCTGGAGTACAGTGGC
ACGGTCTCGCACACTGCAGCCTTCACCTCCCAGGTTCAAGCGATTCTCATGCCTCAGCCT
CCCAAGTAGCTGGGATTACAGGCACACGCCACCATGCCTGGCTAATTTTTGTACTTTTAG
TAGAGACGGGGTCTTGCCACATTGACCAGGCTGGTCTCAAACTTCCGACCTCAAGTGATC
TGCCCTCCTTGGACTCCCAAAGTTCTGGGATTGCAGGCATGAGCCACTGTGCCCAGCAGA
ATTTATTTTTTTAAGTGAGACTGGAATGAATCTTTGGTTACTCAAAATTCCATGACACCA
GTTATTAGATTTATACGATATCAAGCATTTTCAAGCTGGCATGACTGTAGCTATTAGATT
TANAAACCCATAAACCTTACAAGTCAAGAAATAGACGAAAAGCTCATTGTATTCCAGTTA
CAAAAATATCCACTTTAATAATTTCTTGGGGAATAGCAAGATATGGCTGAAAATAGGGCG
AGAAATACCTTGCTCCTTGGCCAGGTTCCAGCCTTTTGAGTATTGAGAGGAAATGGCCGG
AGATTATGGTAAAGCAACAGTTTCTATACCTGCCCAACTCTAATTCAGCAT

Restriction Sites: NotI-NotI

ACCN: NM_024847

Insert Size: 4300 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).

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_024847.1, NP_079123.1
RefSeq Size:	4426 bp
RefSeq ORF:	4401 bp
Locus ID:	79905
UniProt ID:	Q7Z402
Cytogenetics:	16p12.3
Protein Families:	Transmembrane
Gene Summary:	Probable ion channel.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) includes an alternate penultimate exon, compared to variant 3, resulting in an alternate 3' coding region and longer 3' UTR. It encodes isoform a which has a distinct C-terminus, compared to isoform c. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.