

Product datasheet for **RC229841**

TMEM185A (NM_001174092) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM185A (NM_001174092) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM185A
Synonyms:	CXorf13; ee3; FAM11A; FRAXF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229841 representing NM_001174092 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAACCTGAGGGGCTCTTCCAGGACTTCAACCCGAGAGCAGAAGGAGAAACGTGTGTGGAGTTTAAAG
CCATGTTGATTGCAGTGGGCATCCACTTGTCTTGTGATGTTTGAAGTTCTGGTCTGTGACAGAATCGA
GAGAGGAAGCCATTTCTGGCTCCTGGTCTTCATGCCGCTGTTCTTTGTTTCCCGGTGTCTGTTGCAGCT
TGCCTTTGGGGCTTTGACATGACAGGTCAGTACTAGAGTTAGAAATCCTGTGTTCTGTCAACATTCTCCAGT
TTATATTCATTGCCTTAAGACTGGACAAGATCATCCACTGGCCCTGGCTTGTGTGTGTGCCGCTGTG
GATTCTCATGTCTTTCTGTGCCTGGTGGTCTCTACTACATTGTGTGGTCCGCTTGTCTTGGCCTCT
ATGGATGTGATTGCAGAGCAGCGCAGGACACATAACCATGGCCCTGAGCTGGATGACCATCGTCGTGC
CCCTTCTTACATTTGAGATTCTGCTGGTTCACAACTGGATGGCCACAACGCCTTCTCTGCATCCCGAT
CTTTGTCCCTTTGGCTCTCGTTGATCACGCTGATGGCAACCACATTTGGACAGAAGGGAGGAAACCAC
TGGTGGTTTGGTATCCGCAAAGATTTCTGTGAGTTTCTGCTTGAATCTTCCATTTCTACGAGAATATG
GAAACATTTCTATGATCTCCATCACGAAGATAATGAAGAAACCGAAGAGACCCAGTCCCGAGCCCC
TAAATCGCACCCATGTTTCGAAAGAAGCCAGGTGGTTCATTACCCAGAGCCCTGGGAAGTATGTGCTC
CCACCTCCCAAATTAATATCGAAATGCCAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC229841 representing NM_001174092
Red=Cloning site Green=Tags(s)

MNLRGLFQDFNPRAEGETCVEFKAMLIAVGIHLLLLMFEVLVCDRIERGSHFWLLVFMPPLFFVSPVSVAA
 CVWGFHRHSLELEILCSVNILQFIFIALRLDKIIHWPWLVVCVPLWILMSFLCLVLYIVWSVLFLRS
 MDVIAEQRRTHITMALSWMTIVVPLLTFEILLVHKLDGHNAFSCIPFVPLWLSLITLMATTFGQKGGNH
 WWFGIRKDFCQFLLEIFPFLREYGNISYDLHHEDNEETEETPVPEPPKIAPMFRKKARVVITQSPGKYVL
 PPPKLNIEMPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8049_h06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001174092

ORF Size: 873 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:

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_001174092.1](#), [NP_001167563.1](#)

RefSeq ORF: 876 bp

Locus ID: 84548

UniProt ID: [Q8NFB2](#)

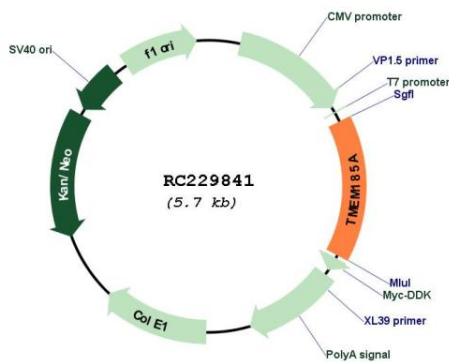
Cytogenetics: Xq28

Protein Families: Transmembrane

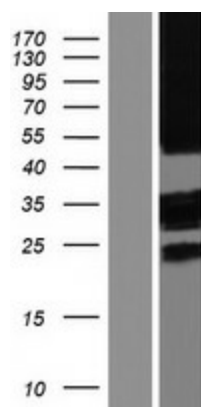
MW: 34.4 kDa

Gene Summary: The protein encoded by this gene is predicted to be a transmembrane protein. This gene is best known for localizing to the CpG island of the fragile site FRAXF. The 5' untranslated region of this gene contains a CGG trinucleotide repeat sequence that normally consists of 7-40 tandem CGG repeats but which can expand to greater than 300 repeats. Methylation of the CpG island leads to transcriptional silencing of this gene, but neither the silencing nor an expanded repeat region appear to manifest itself in a clear phenotypic manner. Alternative splicing results in multiple transcript variants. A pseudogene of this gene has been defined on the X chromosome. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RC229841



Western blot validation of overexpression lysate (Cat# [LY432841]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229841 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).