

Product datasheet for **RC205248**

TM4SF2 (TSPAN7) (NM_004615) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM4SF2 (TSPAN7) (NM_004615) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TM4SF2
Synonyms:	A15; CCG-B7; CD231; DXS1692E; MRX58; MXS1; TALLA-1; TM4SF2; TM4SF2b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205248 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCGAGGAGAATGGAGACCAAACCTGTGATAACCTGTCTCAAACCCCTCATCATCTACTCCT
TCGTCTTCTGGATCACTGGGGTATCCTGCTGGCTGTTGGAGTCTGGGGCAAACCTACTCTGGGCACCTA
TATCTCCCTTATTGCCAAGAAGTCCACAAATGCTCCCTATGTGCTCATCGGAAGTGGCACCCTATTGTT
GTCTTTGGCCTGTTGGATGCTTTGCTACATGTCGTGGTAGCCCATGGATGCTGAACTGTATGCCATGT
TTCTGTCCCTGGTGTTCCTGGCTGAGCTCGTAGCTGGCATTTCAGGGTTTGTGTTTCGTCATGAGATCAA
GGACACCTTCTGAGGACTTACACGGACTATGCAGACTTACAATGGCAATGATGAGAGGAGCCGGCA
GTGGACCATGTGCAGCGCAGCCTGAGCTGCTGTGGTGTGCAGAACTACACCAACTGGAGCACCAGCCCT
ACTTCTGGAGCATGGCATCCCCCAGCTGCTGCATGAACGAAACTGATTGTAATCCCCAGGATCTACA
CAATCTGACTGTGGCCGCCACCAAAGTTAACCAGAAGGGTTGTTATGATCTGGTAACTAGTTTCATGGAG
ACTAACATGGGAATCATCGCTGGAGTGGCGTTTGGAAATCGCATTCTCCAGTTAATTGGCATGCTGCTGG
CCTGCTGTCTGTCCGGTTCATCACGGCCAATCAGTATGAGATGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205248 protein sequence
Red=Cloning site Green=Tags(s)

MASRRMETKPVITCLKTLIIYSFVFWITGVILLAVGVWGLTLGTYISLIAKNSTNAPYVLIGTGTTIV
 VFGLFGCFATCRGSPWMLKLYAMFLSLVFLAELVAGISGFVFRHEIKDFTLRITYDTMQTYNGNDERSRA
 VDHVQRSLSCCGVQNYTNWSTSPYFLEHGIPPSCCMNETDCNPQDLHNLVAATKVNQKGCYDLVTSFME
 TNMGIIAGVAFGIASFQLIGMLLACCLSRFITANQYEMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6028_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004615

ORF Size: 747 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004615.4](#)

RefSeq Size: 1816 bp

RefSeq ORF: 750 bp

Locus ID: 7102

UniProt ID: [P41732](#)

Cytogenetics: Xp11.4

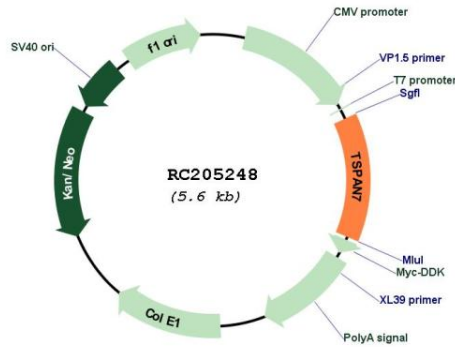
Domains: transmembrane4

Protein Families: Druggable Genome, Transmembrane

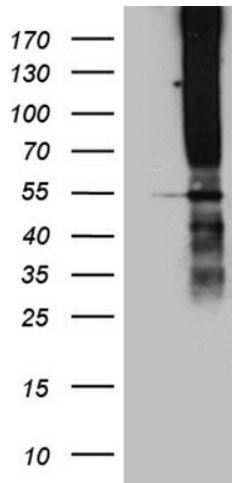
MW: 27.6 kDa

Gene Summary: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein and may have a role in the control of neurite outgrowth. It is known to complex with integrins. This gene is associated with X-linked cognitive disability and neuropsychiatric diseases such as Huntington's chorea, fragile X syndrome and myotonic dystrophy. [provided by RefSeq, Jul 2008]

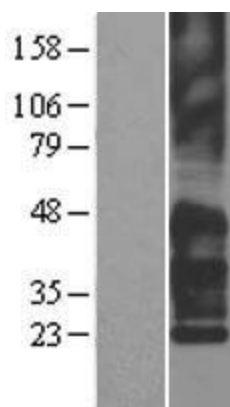
Product images:



Circular map for RC205248



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TSPAN7 (Cat# RC205248, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TSPAN7 (Cat# [TA811638])(1:500). Positive lysates [LY401460] (100ug) and [LC401460] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401460]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).