

Product datasheet for RC207725

TM4SF20 (NM_024795) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: TM4SF20 (NM_024795) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: TM4SF20

Synonyms: PRO994; SLI5; TCCE518

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC207725 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207725 protein sequence

Red=Cloning site Green=Tags(s)

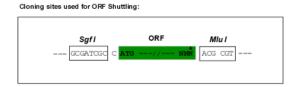
MTCCEGWTSCNGFSLLVLLLLGVVLNVIPLIVSLVEEDQFSQNPISCFEWWFPGIIGAGLMAIPATTMSL TARKRACCNNRTGMFLSSFFSVITVIGALYCMLISIQALLKGPLMCNSPSNSNANCEFSLKNISDIHPES FNLQWFFNDSCAPPTGFNKPTSNDTMASGWRASSFHFDSEENKHRLIHFSVFLGLLLVGILEVLFGLSQI VIGFLGCLCGVSKRRSQIV

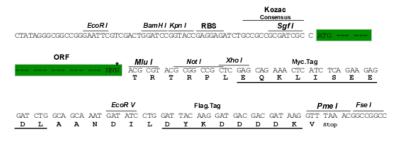
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6544 c01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_024795

ORF Size: 687 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercom or by

calling 301.340.3188 option 3 for pricing and delivery.

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

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OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.



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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 024795.4

RefSeg Size: 2310 bp RefSeq ORF: 690 bp Locus ID: 79853 **UniProt ID:** Q53R12 Cytogenetics: 2q36.3

Protein Families: Transmembrane

MW: 25.1 kDa

Gene Summary: The protein encoded by this gene is a member of the four-transmembrane L6 superfamily.

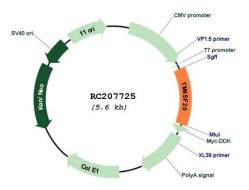
> Members of this family function in various cellular processes including cell proliferation, motility, and adhesion via their interactions with integrins. In human brain tissue, this gene is expressed at high levels in the parietal lobe, occipital lobe, hippocampus, pons, white matter, corpus callosum, and cerebellum. Knockout of the homologous gene in mouse results in a neurobehavioral phenotype with suggested enhanced motor coordination. A deletion

> mutation in the human gene is associated with specific language impairment-5. [provided by

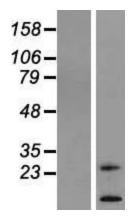
RefSeq, Jul 2016]



Product images:

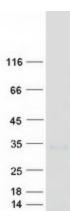


Circular map for RC207725



Western blot validation of overexpression lysate (Cat# [LY411055]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207725 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified TM4SF20 protein (Cat# [TP307725]). The protein was produced from HEK293T cells transfected with TM4SF20 cDNA clone (Cat# RC207725) using MegaTran 2.0 (Cat# [TT210002]).