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Product datasheet for MR207084

Tmem5 (NM_153059) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem5 (NM_153059) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem5
Synonyms:	6330415D21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR207084 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTGACGCGGACACGGCTGTGCTCCCTCCTCGTCGCCCTGTACTGCCTCTTCTCCATCTACGCCG
CCTACCACGTCTTCTTCGGGCGCCGCCGCCGGCCGCTGGGCACGACCTCTCGGAACTCCAGGAAGGCGGC
GGCGGCGCAGGCGAAGGAGAGGCGCGGCCGAGAGCAGTCCGCTTTGGAGAGTGAAGAATGGAATCCTTGG
GAAGGAGATGAAAAAAACGAGCAGCGACACAGAGTTAAGACCAACCTGCAAATCTTAAACAAATCCACGA
AAGAAAAAATAGAGCATAGGGTGCAAATCTGGGGCAAAGCTGCCATTGGTCTGTATCTCTGGGAACATAT
TTTTGAAGGCACTCTTGATCCTGCTGATGTGACTGCTCAGTGGAGGGAAGGACAGTCAGTTGTAGGAAGA
ACGCATTACAGCTTCATCACAGGCCCAGCTGTAGTTCCTGGGTACTTCTCCATAGATGTGGACAATGTGG
TTCTTGTTTTAAATGGAAGAGAAAAAGCAAAGATCTTTCATGCCACCCAGTGGTTAATTTATGCACAGAA
TTTAATGAAAACCCAAAAACTGCAGCATCTGGCTGTTGTCTTGCTTGGAAATGAGCACTGTGAAAATGAC
TGGATAATGCAGTTCCTCAAAAGAAATGGAGGCTTTGTGGATCTGCTTTTCATAACATATGACAGCCCCT
GGATTAATGGTGCAGACATTCTCCAGTGGCCTTTAGGTGTAGCAACATATAGGCAGTTTCCTGTAGTTGA
AGCCAGCTGGACAATGCTGCATGATGAGAGGCCCTACATATGTAATTTCTTAGGAACTGCCTATGAAAAT
TCATCAAGACAAGCACTAATGAACATTTTGAAACAAGATGGAAATGATAAACTTTGTTGGGTTTCTGCAA
GAGAACAGTGGCAGCCTCAGGAGACAAATGAAAGCCTTAAGAATTACCAAGATGCTTTGCTTCACAGTGA
TCTCACATTGTGCCCTGTAGGAGTGAACACGGAATGTTACAGGATCTATGAGGCCTGCTCCTTTGGCTCC
ATTCCTGTGGTAGAAGATGTGATGACAGCTGGTCACTGTGGAAACACAACCAGTCAGCACAGTGCTCCTC
TGCAGTTACTCAAGGCCATGGGGGCCCCCTTCATCTTCATCAAGAACTGGAAGGAGCTTCCTGCTATTTT
AGAAAAGGAGAAGACTATAAGCTTACAAGAAAAGATTCAAAGAAGAAAAGTGTTACTTCATTGGTACCAA
CACTTCAAAACAGAACTAAAATGGAAATTTACTAAAATTTTAGAAAGTTCATTTTTTATTAATAATAAAG
TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

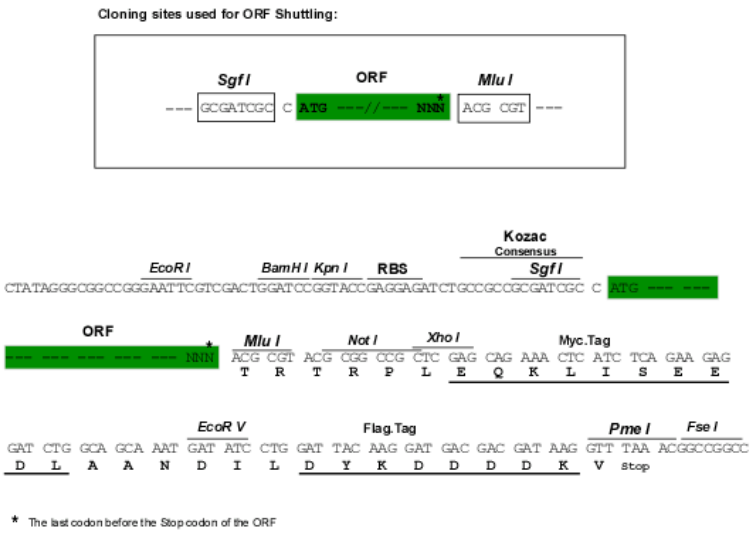
>MR207084 protein sequence
Red=Cloning site Green=Tags(s)

MRLTRTRLCSLLVALYCLFSIYAAYHVFFGRRRRPLGTTSRNSRKAAAAQAKERRGREQSALESEEWNPW
EGDEKNEQRHRVKTNLQILNKSTKEKIEHRVQIWGKAAIGLYLWEHIFEGTLDPADVTAQWREGQSVVGR
THYSFITGPAVVPGYFSIDVDNVVLVLNGREKAKIFHATQWLIYAQNLMKTQKLQHLAVVLLGNEHCEND
WIMQFLKRNGGFVDLLFITYDSPWINGADILQWPLGVATYRQFPVVEASWTMLHDERPYICNFLGTAYEN
SSRQALMNILKQDGNDKLCWVSAREQWQPQETNESLKNYQDALLHSDLTLCPVGVNTECYRIYEACSFGS
IPVVEDVMTAGHCGNTTSQHSAPLQLLKAMGAPFIFIKNWKELPAILEKEKTISLQEKIQRRKVLLHWYQ
HFKTELKWKFTKILESSFFINNKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153059

ORF Size: 1335 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_153059.2

RefSeq Size: 1393 bp

RefSeq ORF: 1335 bp

Locus ID: 216395

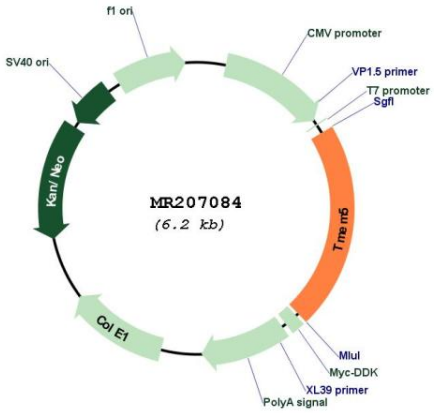
UniProt ID: Q8VDX6

Cytogenetics: 10 D2

MW: 51.4 kDa

Gene Summary: UDP-xylosyltransferase involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (By similarity). Acts as a UDP-D-xylose:ribitol-5-phosphate beta1,4-xylosyltransferase, which catalyzes the transfer of UDP-D-xylose to ribitol 5-phosphate (Rbo5P) to form the Xylbeta1-4Rbo5P linkage on O-mannosyl glycan (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207084