

Product datasheet for **MG207084**

Tmem5 (NM_153059) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem5 (NM_153059) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem5
Synonyms:	6330415D21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207084 representing NM_153059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCTGACGCGGACACGGCTGTGCTCCCTCCTCGTCGCCCTGTACTGCCTCTTCTCCATCTACGCCG
 CCTACCACGTCTTCTTCGGGCGCCGCCGCGCGCTGGGCACGACCTCTCGAACTCCAGGAAGCGCGC
 GGCGGCGCAGGCGAAGGAGAGGGCGCGGCGAGAGCAGTCCGCTTTGGAGAGTGAAGAATGGAATCCTTGG
 GAAGGAGATGAAAAAACGAGCAGCGACACAGAGTTAAGACCAACCTGCAAACTTAAACAAATCCACGA
 AAGAAAAATAGAGCATAGGGTGCAAACTGGGGCAAAGCTGCCATTGGTCTGTATCTCTGGGAACATAT
 TTTTGAAGGCACTCTTGATCCTGCTGATGTGACTGCTCAGTGGAGGGAAGGACAGTCAGTTGTAGGAAGA
 ACGCATTACAGCTTCATCACAGGCCAGCTGTAGTTCTGGTACTTCTCCATAGATGTGGACAATGTGG
 TTCTTGTTTTAAATGGAAGAGAAAAAGCAAAGATCTTTCATGCCACCCAGTGGTTAATTTATGCACAGAA
 TTTAATGAAAACCAAAAAGTGCAGCATCTGGCTGTTGTCTTGTGGAAATGAGCACTGTGAAAATGAC
 TGGATAATGCAGTTCTCAAAGAAATGGAGGCTTTGTGGATCTGCTTTTCATAACATATGACAGCCCT
 GGATTAATGGTGCAGACATTCTCAGTGGCCTTTAGGTGTAGCAACATATAGGCAGTTTCTGTAGTTGA
 AGCCAGCTGGACAATGCTGCATGATGAGAGGCCCTACATATGTAATTTCTTAGGAACTGCCTATGAAAA
 TCATCAAGACAAGCACTAATGAACATTTTGAACAAGATGGAAATGATAAACTTTGTTGGGTTTCTGCAA
 GAGAACAGTGGCAGCCTCAGGAGACAAATGAAAGCCTTAAAGATTACCAAGATGCTTTGCTTACAGTGA
 TCTCACATTGTGCCCTGTAGGAGTGAACACGGAATGTTACAGGATCTATGAGGCCTGCTCCTTTGGCTCC
 ATTCTGTGGTAGAAGATGTGATGACAGCTGGTCACTGTGAAACACAACCAGTCAGCACAGTGCCTCTC
 TGCAGTTACTCAAGGCCATGGGGCCCTTTCATCTTCAAGAAGTGGAAAGGAGCTTCTGCTATTTT
 AGAAAAGGAGAAGACTATAAGCTTACAAGAAAAGATTCAAAGAAGAAAAGTGTACTTCATTGGTACCAA
 CACTTCAAACAGAACTAAAATGAAAATTTACTAAAATTTAGAAAAGTTCATTTTTTATAATAATAAAG
 TT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207084 representing NM_153059
 Red=Cloning site Green=Tags(s)

MRLTRTRLCSELLVALYCLFSIYAAYHVFFGRRRRPLGTTSRNSRKAQAKERRGREQSALESEEWNPW
 EGDEKNEQRHRVKTNLQILNKSTKEKIEHRVQIWGKAAIGLYLWEHIFEGTLPADVTAQWREGQSVVGR
 THYSFITGPAVVPGYFSIDVDNVVLVLNGREKAKIFHATQWLIYAQNLMKTQKLQHLAVVLLGNEHCEND
 WIMQFLKRNGGFVDLLFITYDSPWINGADILQWPLGVATYRQFPVVEASWTMLHDERPYICNFLTAYEN
 SSRQALMNILKQDGNKLCWVSAREQWQPQETNESLKNYQDALLHSDLTLCVGVNTECYRIEACSFGS
 IPVVEDVMTAGHCGNTTSQHSAPLQLLKAMGAPFIFIKNWKELPAILEKEKTIISLQEKIQRKVVLLHWYQ
 HFKTELKWKFTKILESSFFINNKV

TRTRPLE – GFP Tag – V

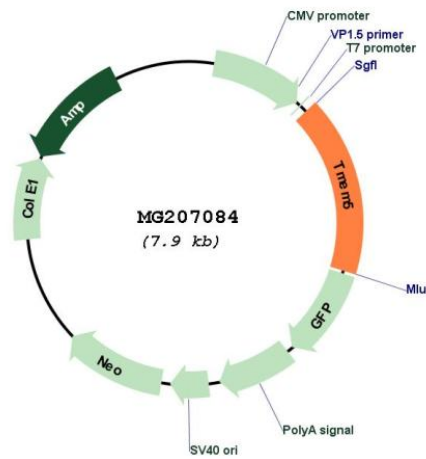
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_153059

ORF Size: 1332 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:	<ol style="list-style-type: none">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
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]