

Product datasheet for **MG223526**

Tmem27 (NM_020626) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem27 (NM_020626) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem27
Synonyms:	0610008J07Rik; NX-17; NX17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223526 representing NM_020626 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGTGGGCGCTCTTTTTCTGGTGACTACTATTCACGCTGAACTCTGCCATCCAGATGCAGAAAATG
CCTTTAAAGTAAGACTTAGCATCAGAGCAGCTCTGGAGATAAAGCATATGTCTGGGACACGGATCAAGA
ATACCTCTTCAGAGCAATGGTGGCATTCTCCATGAGAAAAGTTCCCAACAGAGAAGCAACAGAAATTTCC
CATGTCCTGCTTTGCAACATAACCCAGAGGGTGTCTGTTCTGGTTTGTGGTCACGGACCCTCCAACAATT
ATACTCTTCTGCAGCTGAAGTACAGTCGGCCATAAAGAAAGAATAGGAACCGGATCAACAGTGCATTTTT
TCTGGATGACCATACTCTGGAATTTTTAAAAATTCCTTCTACTCTTGCTCCCCGATGGAGCCATCTGTG
CCCGTCTGGATTATTGTATTCTGGTGTGATATTTGCATTGTTACAGTTGCAATTGCACTACTGGTCTAT
CTGGAATCCGGCAACGCAGAAGGAACAACAAGGACCACCTGGAGTGGAAGATGCAGAAGACAAGTGTGA
AAACATCATCACAATAGAAAATGGCATCCCTTGTGATCCCTTGGACATGAAGGGAGGGCACCATTAATGAT
GGCTTCTTGACAGAGGATGAGCGCCTCACCCCTCTC

ACGCGTACGCGGGCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223526 representing NM_020626
Red=Cloning site Green=Tags(s)

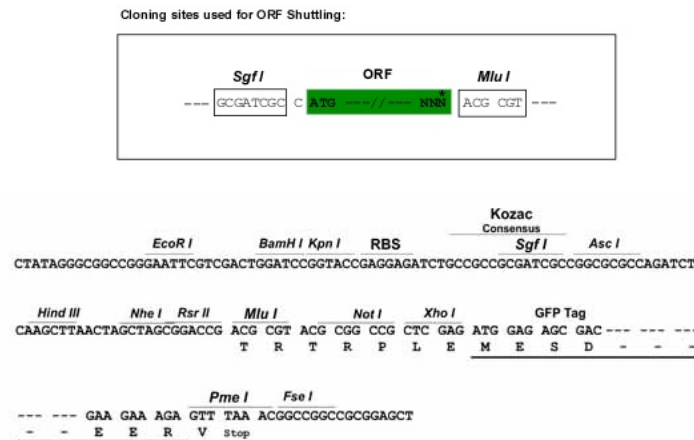
MLWALFFLVTTIHAELCHPDAENAFKVRLSIRAALGDKAYVWDTDQEYLFAMVAFSMRKVPNREATEIS
 HVLLCNITQRVSFWFVVDPSNNYTLPAAEVQSAIRKNNRINSAFFLDDHTLEFLKIPSTLAPPMPSV
 PVWIIIVGVIFCIVTVAIALLVLSGIRQRRRNKGPPEGVEDAEDKCENIITIENGIPCDPLDMKGGHIND
 GFLTEDERLTPL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1201_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020626

ORF Size: 666 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_020626.2](#), [NP_065651.1](#)

RefSeq Size: 1262 bp

RefSeq ORF: 669 bp

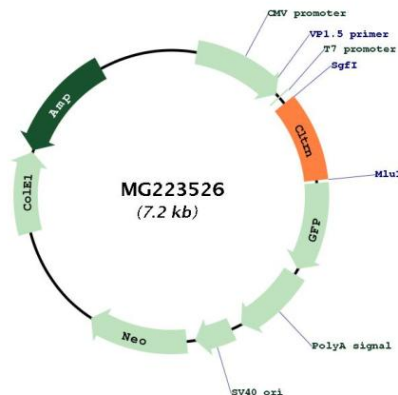
Locus ID: 57394

UniProt ID: [Q9ESG4](#)

Cytogenetics: X F5

Gene Summary: Plays an important role in amino acid transport by acting as binding partner of amino acid transporters SLC6A18 and SLC6A19, regulating their trafficking on the cell surface and their activity (PubMed:17167413). Regulator of SNARE complex function (PubMed:16330323). Stimulator of beta cell replication (PubMed:16330324).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223526