

Product datasheet for **MG226426**

Man1b1 (NM_001029983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1b1 (NM_001029983) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Man1b1
Synonyms:	E430019H13Rik; ERMan1; Gm108; MANA-ER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG226426 representing NM_001029983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTACCCACCGCCGCCGCCGCCGCCGCCCTACCGGGACTTCATCTCGGTGACGCTGAGCCTGGGCG
 AGAGCTACGACAACAGCAAGAGCCGGCGGCCGCTCATGCTGGAGGAAATGGAAGCAGCTTTCGAGGCT
 ACAGCGGAATGTGATTCTCTCGTCTTGGGCTTTCTGATTCTCTGTGGATTCTGTACTCTCTTCATACG
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 AAGGCATTTTCGGCGGGGCCCTCCCATCTGCAGATTAGACCCCCAACACAGTCTCCAAGGATGGGATG
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 CAAGCCTGAGCCAGGGACAAGATGGAGAGCTTTTGTGGGGGAAACCTGAAGTACTGTACCTGCTC
 TTTTCTGATGACCTGGAGCTGCTCAGTCTGGACAGCTGTGTGTTCAACACAGAAGCCATCCCCCTCCCA
 TCTGGGCTCCTGCG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226426 representing NM_001029983
 Red=Cloning site Green=Tags(s)

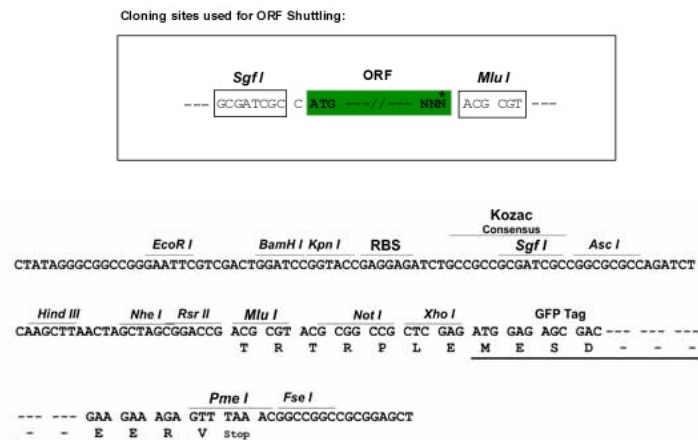
MYPPPPAPPAPHRDFISVTL SLGESYDNSKSRRRRSCWRKWKQLSRLQRNVILFVLGFLILCGFLYSLHT
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 TLALGVHHGLPADHMDLARALMETCYQMNQMETGLSPEIAHFNMYPRADHKDVEVKPADRHNLRLPETV
 ESLFYLYRVTDRKYQDWGEILQSFNKYTRVPSGGYSSINNQNHSKPEPRDKMESFFVGETLKYLYLL
 FSDDLELLSLDSCVFNTEAHPLIOWAPA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001029983

ORF Size: 1974 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_001029983.2](#), [NP_001025154.1](#)

RefSeq Size: 3748 bp

RefSeq ORF: 1977 bp

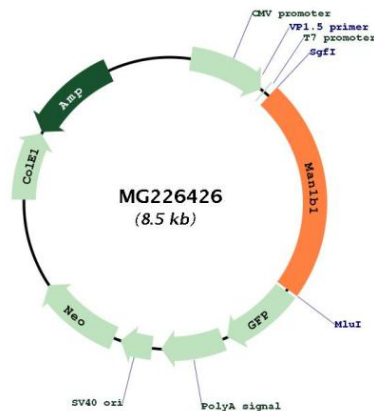
Locus ID: 227619

UniProt ID: [A2A15](#)

Cytogenetics: 2 A3

Gene Summary: Involved in glycoprotein quality control targeting of misfolded glycoproteins for degradation. It primarily trims a single alpha-1,2-linked mannose residue from Man(9)GlcNAc(2) to produce Man(8)GlcNAc(2), but at high enzyme concentrations, as found in the ER quality control compartment (ERQC), it further trims the carbohydrates to Man(5-6)GlcNAc(2) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226426