

Product datasheet for **MR226426**

Man1b1 (NM_001029983) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1b1 (NM_001029983) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Man1b1
Synonyms:	E430019H13Rik; ERMan1; Gm108; MANA-ER
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR226426 representing NM_001029983
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTACCCACCGCCGCGCCGCCCGCGCCTACCGGGACTTCATCTCGGTGACGCTGAGCCTGGGCG
 AGAGCTACGACAACAGCAAGAGCCGGCGCGCCTCATGCTGGAGGAAATGGAAGCAGCTTTCGAGGCT
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 TCTGGGCTCCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR226426 representing NM_001029983
 Red=Cloning site Green=Tags(s)

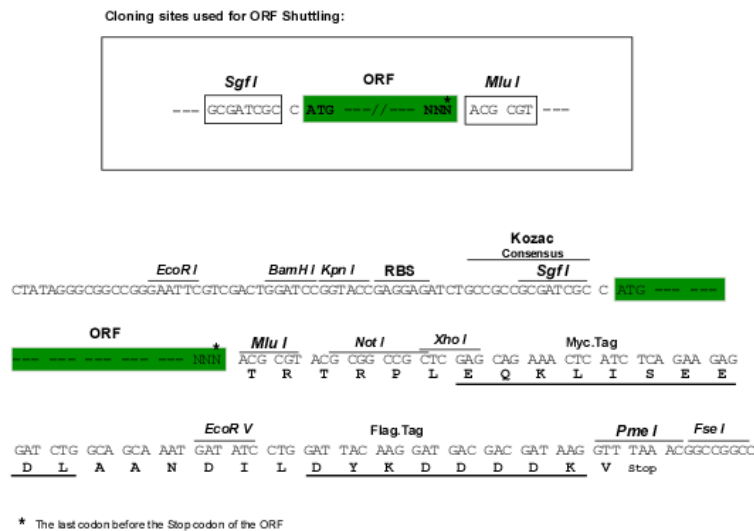
MYPPAPPPAPHRDFISVTL SLGESYDNSKSRRRRSCWRKWKQLSRLQRNVILFVLGFLILCGFLYSLHT
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 KNVDVNLFEISTIRILGGLLSTYHLSGDSLFLTKAEDFGKRLMPAFTTPSKIPYSDVNIPTGFAHSPQWTS
 DSTVAEVTISIQLEFRELSTLGIKKFQEAVEEVTKHIHSLSGKKDGLVPMFINTNSGLFTHPGVFTLGAR
 ADSYYEYLLKQWIQGGKQETQLLEDYVKAIEGKAHLRQSQPRKLTFFVGEAHGRFSKMDHLVCFPLPG
 TLALGVHHLGADHMDLARALMETCYQMNQMETGLSPEIAHFNMYPRADHKDVEVKPADRHNLRLPETV
 ESLFYLYRVTRDRKYQDWGWEILQSFNKYTRVPSGGYSSINNVQNSHKPEPRDKMESFFVGETLKLYLL
 FSDDLELLSLDSCVFNTEAHPLIWAPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_a11.zip

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

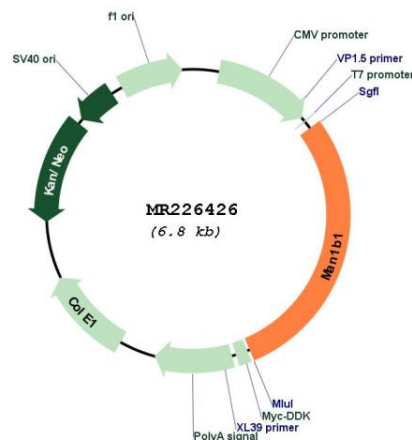
UniProt ID: [A2A15](#)

Cytogenetics: 2 A3

MW: 75.6 kDa

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 MR226426