

Product datasheet for **MC220204**

Man1b1 (NM_001029983) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC220204 representing NM_001029983
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCACCGCCGGCCGCCGCCGCCGCCCTCACCGGACTTCATCTCGGTGACGCTGAGCCTGGGCG
 AGAGCTACGACAACAGCAAGAGCCGGCGGCCGCTCATGCTGGAGGAAATGGAAGCAGCTTTCGAGGCT
 ACAGCGGAATGTGATTCTCTCGTCTTGGGCTTCTGATTCTCTGTGGATTCTGTACTCTTTCATACG
 GCTGACCAGTGGAAAGCTCTGAGTGGCAGACCTGCAGAAGTAGAGAAGATGAAGCAAGAAGTCTGCCTG
 TCTTACCAGCGCCTCAGAAGGAAAGTGCTGAACAAGAAGGTTTGCAGACATACTCTCAGAAGCGGCA
 AAGGCATTTTCGGCGGGCCCTCCCATCTGCAGATTAGACCCCAACACAGTCTCCAAGGATGGGATG
 CAGGATGATGCTAAGGAGAGAGAAGCAGCCCTGGGAAGGCTCAGCAGGAAGAAAACACACAGAGAACC
 TCATCAGCTGGCGGGAGCCGTGATTGAGCCTGAACAGGCCACTGAACTTCCTTACAAAAGAGCTGAAGC
 CTCATCAAACCTCTGGTTTTGGCATCCAAGATATGAAAAGAGCCAGCCCCCGAATGAGCGCCAGAAG
 GGAGTGATTGAGGCCTTCTCCATGCTTGAAGGGTTACCAAAAGTTGCTTGGGCCATGATGAACTAA
 AACCTGTGTCCAAAACCTTCAGTGAGTGGTTTGGCCTGGGCTCACCCCTGATCGATGCCTTGGATACCAT
 GTGGATTTTGGTCTGAAGCAAGAATTTAAGCAAGCCAGGAAATGGGTATCAGAGAACTTAGACTTTCAG
 AAGAATGTTGATGTCAACCTGTTTGGAGCACCATTTCGCATCTTAGGGGGCTGTGAGTACCTACCACC
 TGTCCGGGGACAGCCTCTTCTGACCAAAGCTGAAGATTTTGGAAAACGGCTGATGCCTGCCTTCACTAC
 GCCCTCCAAGATCCCATACTCTGATGTGAACATTGGCACTGGATTTGCCACTCACCCAGTGGACTTCA
 GACAGCAGGTGGCAGAAGTGACGAGCATTGAGTTGGAGTCCGGGAGCTCTCTCGTCTTACTGGAATAA
 AGAAATTCAGGAGCCGTGGAGGAAGTGACAAGCACATCCACTCCCTGTCTGGGAAGAAGACGGGCT
 GGTGCCTATGTTTCATCAACACGAACAGCGGCCTTTCACCCACCCAGGAGTGTTACCTTGGGGCCAGG
 GCTGACAGCTACTACGAATACCTGCTGAAACAGTGGATCCAGGGTGGCAAGAAGGAGACACAGTTGCTGG
 AAGACTATGTTAAAGCCATTGAGGGGATAAAAGCCCATCTGCTCCGGCAGTCTCAGCCCAGAAAGCTCAC
 CTTCTGTTGGGAGAACTTGGCCACGGCCGCTTCAAGTCCAAAGATGGACCCTTAGTGTGCTTCTGCCGGG
 ACGCTGGCTTGGGTGTCCACCATGGCCTGCCAGCTGACCACATGGATCTAGCTCGGGCCCTCATGGAGA
 CCTGCTACCAGATGAACCAACAGATGGAGACAGGTCTGAGCCCTGAGATTGCACATTTCAACATGTACCC
 TCGGGCAGATCATAAAGATGTGGAGTCAAGCCAGCTGACAGGCACAACCTGCTCGGCCAGAGACGGTG
 GAAAGCCTATTCTATCTGTACCGTGTACAAGGGACCGCAAGTACCAGGACTGGGGCTGGGAAATCTGTC
 AGAGCTTCAATAAGTACACACGGTCCCCTCAGGTGGCTATTCTTCTATCAACAAGTCCAGAATCCCA
 CAAGCCTGAGCCAGGACAAGATGGAGAGCTTTTGTGGGGAAACCTGAAGTACTGTACCTGCTC
 TTTTCTGATGACCTGGAGCTGCTCAGTCTGGACAGCTGTGTGTTCAACACAGAAGCCATCCCCTCCCA
 TCTGGGCTCCTGCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001029983

Insert Size: 1977 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_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]