

Product datasheet for **MC221887**

Man2a2 (NM_172903) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Man2a2 (NM_172903) Mouse Untagged Clone
Tag: Tag Free
Symbol: Man2a2
Synonyms: 1700052O22Rik; 4931438M07Rik; AI480988; Man Iix; MX
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC221887 representing NM_172903
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCTGAAAAAGCAGGTGACGGTGTGTGGGGCTGCTATCTTCTGTGTGGCCGTCTTTTCTGTACC
 TTATGCTGGACCGAGTGCAGCATGATCCTGCCAGACACCAGAATGGTGGAACTTCCCAGGAGCCAAAT
 CTCTGTGTACAGAACCGGATAGAACAGCTGGAACAACCTGCTGGAGGAAAACCATGACATCATAAGCCGT
 ATCAAGGACTCTGACTGGAAGTACAGCAATGCGGAGGGCCCGCCAGCCCTGCTGCCCTACCATACCG
 CCAACGGTTCCTGGGCTGTGCTCCCGGAGCCCCGGCCAGCTTCTTCTCCGTCTCCCCCAGGACTGCCA
 GTTTGCTTTGGGGGACGGGGTCAAGCCAGAACTACAGATGTTAACCGTGTCTGAGGATTTGCCGTTT
 GACAATGTGGAGGGTGGCGTGTGGAGGCAAGGCTTTGACATCTCCTACAGCCAAATGACTGGGACACTG
 AAGACCTGCAAGTGTGTGGTGCCTCACTCCCAACAGTCCAGGCTGGATCAAGACTTTTGACAAGTA
 CTACACGGAACAGACCCAGCACATCCTCAACAGCATGGTGTCCAAGCTGCAGGAAGACCCCGCGGCGC
 TTTCTCTGGGCAGAAGTCTCCTTCTCGCAAGTGGTGGGACAACATCAGTGCCAAAAGAGGGCAGCAG
 TTCGAAGGCTGGTGGAAATGGGCAGTGGAGATTGCGACAGGCGGATGGGTGATGCCCGACGAGGCCAA
 CTCCCATTACTTTGCCTTGGTTGACCAGTCTCGAGGGGACCCAGTGGCTGGAGAGAAACCTGGGTGCA
 ACCCCGCGCTCGGGCTGGGCAGTGGACCCCTTTGGACACAGCTCCACCATGCCTTACCTGCTGCGCCGTG
 CCAACCTGACCAGCATGCTGATTAGAGGGTGCATTATGCCATCAAGAAGCACTTTGCTGCCACTCATAG
 CCTGGAGTTCAATGTGGAGGCAGATGTGGGATTCAGACTCCAGCACAGACATCTTTTGCCACATGATGCC
 TTCTACAGCTACGACGTTCCACACACCTGTGGCCCGATCCCAAGATCTGCTGCCAGTTTGATTTCAAAC
 GTCTGCCGGTGGGAGAATCAATTGCCCTTGGAAAGTGCCACCCCGGCTATTACAGAAGCCAATGTGGC
 AGACAGGGCAGCCCTGCTCCTGGACCAGTACCGGAAGAAGTCCCGGCTGTTCCGAAGCAACGTCCTCCTC
 GTGCCACTTGGTATGACTTCCGGTATGACAAGCCCCAGGAATGGGATGCCAGTTCTTCAACTACCAGC
 GGCTCTTTGACTTCTCAACAGCAAGCCTGAGTTCATGTGCAGGCCAGTTTGGGACCCCTCTGAGTA
 TTTGATGCCCTGTATAAGAGGACAGGAGTAGAGCCTGGTGCCCGGCTCCAGGGTTTCTGTGCTGAGT
 GGGGACTTCTTCTCCTACGCTGACCGGGAGGACCACTACTGGACAGGCTATTACACCTCCCGCCTTTCT



ACAAGAGCTTGGACCGCTCCTAGAAGCCACCTGCGTGGGGCAGAGATTCTATACAGCCTGGCTTTGGC
 CCATGCCCCCGTTCTGGACTGGCCGCCAGTACCCGCTGTCTGATTTTCTCTGACGGAAGCTCGG
 CGTACACTGGGCCTCTTCCAGCACCACGATGCCATCACGGGAACCGCAAGGAGGAGTAGTGGTAGACT
 ACGGGGTCAAGTTGCTGCGTTCCCTGGTCAGCCTCAAGCAGGTTATCATCAATGCTGCCACTACCTGGT
 GCTGGGGGACCAGGAGACCTACAGCTTTGACCTGGGACACCTTCTCCAAATGGATGACAGCCGTGTA
 AGCCATGATGCCCTGCCGAGCGCACGGTGATCCGGCTGGACTCCTCACCAGGTTTGTGGTGGTATTTA
 ACCCGTGGAAACAGGAGCGGCTCAGTGTGGTGTCCCTGCTGGTCAACTCGCCCCGGTGGCGCTCTTTC
 AGAGGAGGGCCAGCCCTGTCTGTGCAGATCAGTGTGCACTGGAGCTCGGCTACGGACATGGTCCCTGAT
 GTCTACCAGTGTGAGTACCCGTCGCTGCCAGGCTGGGCTGGGTGTGCTGCAGCTGCAGCCAGATC
 TCGATGGGCCCTACAGCTGCAGTCTTCCGTGCGGGTCTACCTGAACGGCGTGAAACTGTCCGTACAGCAG
 GCAGTCAGCATTCCCTGTCCGTGTGTGGACTCCGGCCAGCGACTTCGCCATCAGCAATCGCTACATG
 CAGGTCTGGTTCTCCGGCTTACTGGGCTTCTCAAGAGCATCCGACGGGTGGATGAGGAGCAGGAGCAGC
 AGATGAACTGGAGTTCCCTGCTACGGCACCCGTACCTCAAGGACAAGAGTGGCGCTACCTCTTCTCT
 GCCTGATAGCGAGGCTAAGCCCTACGTCCCTAAGAAACCTCCTGTGCTGCGTGTACCGAAGGCCCTTTC
 TTCTCAGAGGTGGCTGTGTACTATGAGCACTTTCACCAAGTGATTGACTTTATAACCTGCCAGGGGTAG
 AGGGGCTGTCTCTGGACATGTCATTCCAGGTAGATATCAGGGACTATGTGAACAAGGAACTGGCCCTGCG
 CATCCACACAGACATTGACAGCCAGGGCACTTTCTTACAGACCTCAATGGCTTTCAGATACAGCCCCGG
 CAGTATCTGAAGAAGCTGCCCTGCAGGCTAATTTCTACCTATGCCAGTCATGGCTATATCCAAGATT
 CCCAGAGGCGCCTCACGCTGCACACTGCCAGGCTCTGGGTGTCTCCAGCCTCGGTAATGGCCAGCTGGA
 GGTGATCTTGGACCGAAGGCTAATGCAGGATGACAACCGGGGACTAGGCCAAGGGCTCAAAGACAACAAG
 ATCACCTGCAACCGTTTCCGCTCCTGTAGAACGTGGACCACAATGAGCCAGAGGTGCATCAGGAGC
 AGGAGCGTTCTACAAGCTACCCGTCCTCCTCAGCCACCTGACATCCATGTACCTCAGCACACCTCCTCT
 TGTCTTACCCGTGGCCAAGAGGACAGGGCACTAGCCCTGCTGCGCTCTTCCACCCTCTGGCTTCTCCA
 TTGCCCTGTGACTTCCATTTGCTCAATCTGCGCATGCTCCAGCCGAGGACACCTTGGCCGCAACTGACT
 CTGCGCTCATCTTACACCGCAAGGGTTTACTGTGGCCTTGAAGCCAAGAACCTGGGCTTCAACTGTAC
 CACAAGCCAAGGCAAGCTAGCCCTGGGAGCCTTCCATGGCCTGGATGTGACCTTCTGCAGCCAACC
 TCCTTGACTTTGCTATACCCTCTGGCCTCACCTTCCAACAGCACTGACATCTCTCTGGAGCCCATGGAGA
 TCAGCACCTTCCGCTGCGCTTGGGCTAG

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_172903

Insert Size:

3459 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_172903.4](#), [NP_766491.2](#)

RefSeq Size: 6575 bp

RefSeq ORF: 3459 bp

Locus ID: 140481

UniProt ID: [Q8BRK9](#)

Cytogenetics: 7 D2

Gene Summary: Catalyzes the first committed step in the biosynthesis of complex N-glycans. It controls conversion of high mannose to complex N-glycans; the final hydrolytic step in the N-glycan maturation pathway (By similarity).[UniProtKB/Swiss-Prot Function]