

## Product datasheet for MC223734

### Man2a1 (NM\_008549) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Man2a1 (NM_008549) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Man2a1
Synonyms:	Mana-2; Mana2; Map-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223734 representing NM_008549 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAAGTTAAGTCGCCAGTTCACCGTGTGGCAGCGGATCTTCTGCGTCGTAATCTTCTCACTCTACC  
TGATGCTGGACAGGGTCACTTGGACTACCTCGGGCCCGCCAGGAGGGCTCCTTCCGAGGGCCA  
GCTTCAATATTGCAAGAAAAGATTGACATTTGGAGCGTTTGTCTGCTGAGAACAACGAGATCATCTCA  
AATATCAGAGACTCAGTCATCAACCTGAGCGAGTCTGTGGAGGACGGCCCGGGGGTACCAGGCAACG  
CCAGCCAAGGCTCCATCCACCTCCACTCGCCACAGTTGGCCCTGCAGGCTGACCCAGAGACTGTTTGT  
TGCTTACAGAGTGGGAGTCAGCCCCGGGATGTGCAGATGTTGGATGTTACGATCTGATTCCTTTTGT  
AATCCAGATGGTGGAGTTTGAAGCAAGGATTTGACATTAAGTATGAAGCGGATGAGTGGGACCATGAGC  
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TAGAGACAAGACTCAGTATATTTTAAACATGGTCCTAAAGCTGAAAGAAGACTCAAGCAGGAAGTTT  
ATGTGGTCTGAGATCTTACCTTGCAAAATGGTGGATATTATAGATATCCGAAGAAGGAAGCTGTTA  
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ACATTATTTGCCTAATTGACCAACTAATTGAAGGGCACCAATGGCTGGAATAAATCTAGGAGTGAAA  
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CAGGGCTCAGATGCTATTGGATCAGTACCGAAAAAGTCAAACTTTCCGCACTAAAGTTCTGCTGGCT  
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CGACGCATTGGAGAAAGCGGTGGCAGCCGAGAAGAAGAGTAGCCAGTCTGTGTTCCCTGCCTGAGTGG  
GACTTCTTACGTACGCTGACAGAGACGACCATTACTGGAGTGGTACTTACAGTCCAGACCTTTCTACA



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AACGAATGGACAGAATAATGGAATCTCGTATAAGGGCTGCTGAAATTCTTTACCAGTTGGCCTTGAACA
AGCTCAGAAAACAAGATAAATAAATTTCTTTCATCACCTCATTACACAACACTGACAGAAGCCAGAAGG
AACTTAGGACTATTTTCAGCATCATGATGCCATCACAGGAACCCGAAAGACTGGGTGGTTGTGGACTATG
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TCCTGTGGTACGGAACCACCAACAAAAGGGACAAGAGCGGTGCCTACCTTCTGCTGACGGGCAGGG
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AAGTTTCTAATATTGTAACATCAGGAATGTGCATAACCGTGAGATTGTAATGAGAATTTTATCTAAAAT
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TTTCGAATCCTCCTCGAGAAGAGAAGCGCTGTGAACATGGAAGAAGAAAAGAAGGCCCTGTCAGTACC
CTTCCCTCCTCAGCCACATGACTTCGTCCTTCTCAACCATCCCTTTCTCCCATGGTACTAAGTGGCCA
GCTCCCTCCCTGCCTTTGAGCTGCTGAGTGAATTTCTCTGCTGAGTCCCTCTACCTTGTGATATC
CATCTGGTCAACCTGCGGACAATAACAATCAAAGATGGGCAAGGCTATTTCGGATGAGGCAGCCTTGATCC
TCCACAGGAAAGGTTTATTGCCAGTTCTCCAGCAGAGGCATCGGGCTACCCTGTTCCACTACTCAGGG
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_008549
- Insert Size:** 3453 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\\_008549.2](#), [NP\\_032575.2](#)

**RefSeq Size:** 6091 bp

**RefSeq ORF:** 3453 bp

**Locus ID:** 17158

**UniProt ID:** [P27046](#)

**Cytogenetics:** 17 E1.1

**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.[UniProtKB/Swiss-Prot Function]