

## Product datasheet for **MG215340**

### Man2a2 (NM\_172903) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Man2a2 (NM\_172903) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Man2a2  
**Synonyms:** 1700052O22Rik; 4931438M07Rik; AI480988; Man IIx; MX  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG215340 representing NM\_172903  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

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GGGACTTCTTCTCCTACGCTGACCGGGAGGACCACTACTGGACAGGCTATTACACCTCCCGCCTTTCT  
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TCCTTGACTTTGCTATACCCTCTGGCCTCACCTTCCAACAGCACTGACATCTCTGGAGCCCATGGAGA  
TCAGCACCTTCCGCTGCGCTTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215340 representing NM\_172903  
 Red=Cloning site Green=Tags(s)

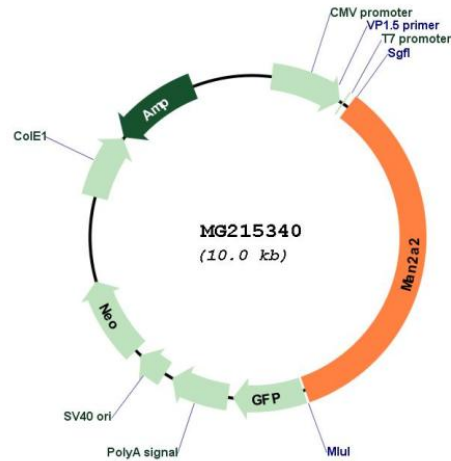
MKLLKKQVTVCGAAIFCVAVFSLYLMLDRVQHDPARHQNGGNFPRSQISVLQNRIEQLEQLLEENHDIISR  
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 TPRSGWAVDPFGHSSTMPYLLRRANLTSMLIQRVHYAIKKHFAATHSLEFMWRQMWDSDSSDIFCHMMP  
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 QVWFSGLTGLLKSIRRVDEEQEQMELEFLVYGTTRTSKDKSGAYLFLPDSEAKPYVPPKPPVLRVTEGPF  
 FSEVAVYYEHFHQVIRLYNLPGVEGLSLDMSFQVDIRDYVNKELALRIHTDIDSQGTFFFDLNGFQIQPR  
 QYLKKLPLQANFYMPVMAYIQDSQRRLTLHTAQALGVSSLGNGQLEVIDRRLMQDDNRGLGQGLKDNK  
 ITCNFRLLLRRTTMSPEVHQEQERSTSYPSLLSHLTSMYLSTPPLVLPVAKRQGTSPALRSFHPLASP  
 LPDFHLLNLRMLPAEDTLPATDSALILHRKGFDCGLEAKNLGFNCTTSQGLKALGSLFHGLDVTFLQPT  
 SLTLLYPLASPSNSTDISLEPMEISTFRLRLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



## Plasmid Map:



ACCN: NM\_172903

ORF Size: 3456 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.

RefSeq: [NM\\_172903.4](#), [NP\\_766491.2](#)

RefSeq Size: 4022 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]