

Product datasheet for **MG208460**

Man2a2 (BC055006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man2a2 (BC055006) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MG208460 representing BC055006
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGACAGCCGTGTAAAGCCATGATGCCTGCCGAGCGCACGGTGATCCGGCTGGACTCCTCACCCA
 GGTTTGGTGGTATTTAACCCGCTGGAACAGGAGCGGCTCAGTGTGGTGTCCCTGCTGGTCAACTCGCC
 CCGGGTGCAGCTCCTTTAGAGGAGGGCCAGCCCTGTCTGTGCAGATCAGTGTGCACTGGAGCTCGGCT
 ACGGACATGGTCCCTGATGTCTACCAGGTGTAGTACCCGTCGCTGCCAGGCCTGGGCTGGGTGTG
 TGCAGCTGCAGCCAGATCTCGATGGGCCCTACACGCTGCAGTCTTCCGTGCGGGTCTACCTGAACGGCGT
 GAAACTGTCCGTGAGCAGGCAGTCAACATTCCCTGTCCGTGTGGACTCCGGCCAGCGACTTCGCC
 ATCAGCAATCGCTACATGCAGGTCTGGTCTCCGGCCTACTGGGCTTCTCAAGAGCATCCGACGGGTGG
 ATGAGGAGCAGGAGCAGCAGATGGAAGTGGAGTTCCTCGTCTACGGCACCCGTACCTCAAGGACAAGAG
 TGGCGCCTACCTTCTCCGCTGATAGCGAGGCTAAGCCCTACGTCCTAAGAACTCCTGTGCTGCGT
 GTACCCGAAGGCCCTTCTTCTCAGAGGTGGCTGTGACTATGAGCACTTACCAAGTGATTTCGACTTT
 ATAACTGCCAGGGGTAGAGGGGCTGTCTCTGGACATGTCATTCCAGGTAGATATCAGGGACTATGTGAA
 CAAGGAAGTGGCCCTGCGCATCCACACAGACATTGACAGCCAGGGCACTTCTTACAGACCTCAATGGC
 TTTAGATACAGCCCCGGCAGTATCTGAAGAAGTGCCTGAGGCTAATTTCTACCCTATGCCAGTCA
 TGGCCTATATCCAAGATCCCAGAGGCGCTCACGCTGCACACTGCCAGGCTCTGGGTGTCTCCAGCCT
 CGGTAATGGCCAGCTGGAGGTGATCTTGGACCGAAGGCTAATGCAGGATGACAACCGGGGACTAGGCCAA
 GGGCTCAAAGACAACAAGATCACCTGCAACCGTTCCGCTCCTGTTAGAAGCTCGGACCAATGAGCC
 CAGAGGTGCATCAGGAGCAGGAGCGTTCTACAAGCTACCCGCTCCTCAGCCACTGACATCCATGTA
 CCTCAGCACACCTCCTTGTCTTACCCGTGGCCAAGAGGCAGGGCACTAGCCCTGCTCTGCGCTCTTTC
 CACCCTCTGGCTTCTCCATTGCCCTGTGACTTCCATTTGCTCAATCTGCGCATGCTCCAGCCGAGGACA
 CCTGCCCGCAACTGACTCTGCGCTCATCTTACCCGCAAGGGGTTTACTGTGGCCTTGAAGCCAAGAA
 CCTGGGCTTCAACTGTACCACAAGCCAAGCAAGCTAGCCCTGGGAGCCTTCCATGGCTGGATGTG
 ACCTTCTGCAGCCAACCTCCTTGACTTTGCTATACCCTCTGGCCTCACCTTCCAACAGCACTGACATCT
 CTCTGGAGCCCATGGAGATCAGCACCTCCGCTGCGCTGGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208460 representing BC055006
 Red=Cloning site Green=Tags(s)

MDSRVSHDALPERTVIRLDSSPRFVVVFNPLEQERLSVVSLLVNSPRVRVLSEEGQPLSVQISVHWSSA
 TDMVPDVYQVSPVRLPGLGLGVLQLQPDLDGPYTLQSSVRVYLVNGVLSVSRQSAFPVRVVDGASDFA
 ISNRYMQVWFSGLTGLLKSIRRVDDEEQQMELEFLVYGTRTSKDKSGAYLFLPDSEAKPYVPPKPPVLR
 VTEGPFSEVAVYYEHFHQVIRLYNLPVGEGLSLDMSFQVDIRDYVNKELALRIHTDIDSQGTFFDLNG
 FQIQPRQYLKPLQANFYPMVMAYIQDSQRRLTLHTAQALGVSSLGNGQLEVLDRRLMQDDNRGLGQ
 GLKDNKITCNRFRLLERRRTMSPEVHQEQERSTSYPSLLSHLTSMYLPSTPLVLPVAKRQGTSPALRSF
 HPLASPLPCDFHLLNLRMLPAEDTLPATDSALILHRKGFDCGLEAKNLGFNCTTSQGLKALGSLFHGLDV
 TFLQPTSLTLLYPLASPSNSTDISLEPMEISTFRLRLG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ACCN:	BC055006
ORF Size:	1586 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:	<ol style="list-style-type: none">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:	BC055006 , AAH55006
RefSeq Size:	4659 bp
RefSeq ORF:	1586 bp
Locus ID:	140481
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]