

Product datasheet for **MR208460**

Man2a2 (BC055006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man2a2 (BC055006) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Man2a2
Synonyms:	1700052O22Rik; 4931438M07Rik; AI480988; Man IIx; MX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208460 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGACAGCCGTGTAAAGCCATGATGCCTGCCGAGCGCACGGTGATCCGGCTGGACTCCTCACCCA
 GGTTTGGTGGTATTTAACCCGCTGGAACAGGAGCGGCTCAGTGTGGTGTCCCTGCTGGTCAACTCGCC
 CCGGGTGCAGCTCCTTTAGAGGAGGGCCAGCCCTGTCTGTGCAGATCAGTGTGCACTGGAGCTCGGT
 ACGGACATGGTCCCTGATGTCTACCAGGTGTAGTACCCGTCGCTGCCAGGCTGGGCTGGGTGTG
 TGCAGCTGCAGCCAGATCTCGATGGGCCCTACACGCTGCAGTCTTCCGTGCGGGTCTACCTGAACGGCGT
 GAAACTGTCCGTGAGCAGGAGTACGATTCCCTGTCCGTGTGGACTCCGGCCAGCGACTTCGCC
 ATCAGCAATCGCTACATGCAGGTCTGGTCTCCGGCTTACTGGGCTTCTCAAGAGCATCCGACGGGTGG
 ATGAGGAGCAGGAGCAGATGGAAGTGGAGTCTCCTCGTCTACGGCACCCGTACCTCAAGGACAAGAG
 TGGCGCCTACCTTCTCCTGCCTGATAGCGAGGCTAAGCCCTACGTCCTAAGAACTCCTGTGCTGCGT
 GTACCGAAGGCCCTTCTTCTCAGAGGTGGCTGTGACTATGAGCACTTACCAAGTGATTTCGACTTT
 ATAACTGCCAGGGGTAGAGGGGCTGTCTCTGGACATGTCATTCCAGGTAGATATCAGGGACTATGTGAA
 CAAGGAAGTGGCCCTGCGCATCCACACAGACATTGACAGCCAGGGCACTTCTTTCACAGACCTCAATGGC
 TTTTCAGATACAGCCCCGGCAGTATCTGAAGAAGCTGCCCTGCAGGCTAATTTCTACCCTATGCCAGTCA
 TGGCCTATATCCAAGATCCCAGAGGCGCTCACGCTGCACACTGCCAGGCTCTGGGTGTCTCCAGCCT
 CGGTAATGGCCAGCTGGAGGTGATCTTGGACCGAAGGCTAATGCAGGATGACAACCGGGGACTAGGCCAA
 GGGCTCAAAGACAACAAGATCACCTGCAACCGTTCCGCTCCTGTTAGAAGCTCGGACCAATGAGCC
 CAGAGGTGCATCAGGAGCAGGAGCGTTCTACAAGCTACCCGCTCCTCCTCAGCCACTGACATCCATGTA
 CCTCAGCACACCTCCTTGTCTTACCCGTGGCCAAGAGGCAGGGCACTAGCCCTGCTCTGCGCTCTTTC
 CACCCTCTGGCTTCTCCATTGCCCTGTGACTTCCATTTGCTCAATCTGCGCATGCTCCAGCCGAGGACA
 CCTTGCCCGCAACTGACTCTGCGCTCATCTTACCCGCAAGGGGTTTACTGTGGCCTTGAAGCCAAGAA
 CCTGGGCTTCAACTGTACCACAAGCCAAGCAAGCTAGCCCTGGGGAGCCTTCCATGGCTGGATGTG
 ACCTTCTGCAGCAACCTCCTTGACTTTGCTATACCCTCTGGCCTCACCTTCCAACAGCACTGACATCT
 CTCTGGAGCCCATGGAGATCAGCACCTCCGCTGCGCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208460 protein sequence
 Red=Cloning site Green=Tags(s)

MDDSRVSHDALPERTVIRLDSSPRFVVVFNPLEQERLSVVSLLVNSPRVRVLSSEGOPLSVQISVHWSSA
 TDMVPDVYQVSVPVRLPGLGLGVLQLQPDLDGPYTLQSSVRVYLVNGVKLSVSRQSAFPVRVVDSGASDFA
 ISNRYMQVWFSGLTGLLKSIRRVDDEEQQMELEFLVYGTRTSKDKSGAYLFLPDSEAKPYVPKPPVLR
 VTEGPPFSEVAVYYEHFHQVIRLYNLPVGEGLSLDMSFQVDIRDYVNKELALRIHTDIDSQGTFFDLNG
 FQIQPRQYLKPLQANFYPMVMAYIQDSQRRLTLHTAQLGVSSLGNGQLEVILDRRLMQDDNRGLGQ
 GLKDNKITCNRFRLLERRRTMSPEVHQEQERSTSYPSLLSHL TSMYLSTPPLVLPVAKRQGTSPALRSF
 HPLASPLPCDFHLLNLRMLPAEDTLPATDSALILHRKGFDCGLEAKNLGFNCTTSQGKLALGSLFHGLDV
 TFLQPTSLTLLYPLASPSNSTDISLEPMEISTFRLRLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC055006

ORF Size: 1584 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: [BC055006](#), [AAH55006](#)

RefSeq Size: 4659 bp

RefSeq ORF: 1586 bp

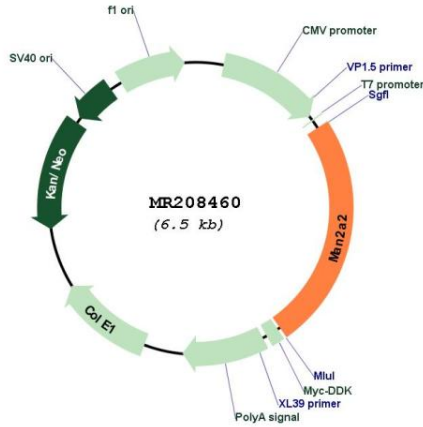
Locus ID: 140481

Cytogenetics: 7 D2

MW: 59.2 kDa

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]

Product images:



Circular map for MR208460