

Product datasheet for **MG209697**

Man1a2 (NM_010763) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1a2 (NM_010763) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Man1a2
Synonyms:	AI428775; AI528764; AI854422; Man1b; PCR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209697 representing NM_010763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGACTACCCAGCGCTGCTGCCCTCTCTGGTCGTAGGATACCACTTTGAACCTGGGGCCGCCCTCCT
 TCCACATCACAGGGCTACCTTGAGACTCTCCGAGAAGTTTATCCTTCTCCTCATCCTTAGTGCCTTCAT
 CACCCTGTGTTTTGGGCATTCTTCTTCTCCAGACTCTTCAAAACACAAACGCTTTGATCTGGGCTTA
 GAAGATGTGTTAATTCCTCACGTAGATGCCGGAAGGAGCTAAAAACCCGCGCTTCTCTGATCCATG
 GACCCGACGAACACAGACACAGGAAGAAGAAGAGCGTCTGAGAAATAAGATTAGAGCTGACCATGAGAA
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 GGTGACTTGACTTACTATAATAAGGTCATGCACATTCGAAACTACTGCAGAAAAATGGAACGCCCAATG
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 ATTGAGAAGTCGTCCGGGTGAGCGGTGGGTTTTCTGGTGTCAAGGATGTATACGCCCGACCCCTGTGC
 ATGACGACGTGCAGCAGAGCTTTTTTCTTGCTGAAACATTAATACTTGTACCTGCTGTTCTCTGGCGA
 TGACCTTCTACCTTTAGACCACTGGGTGTTAACACAGAGGCGCACCTCTGCCGGTGTGCGCTTAGCC
 AACAGCACTCTTTCAGGTAATCCTGCTGTCCGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

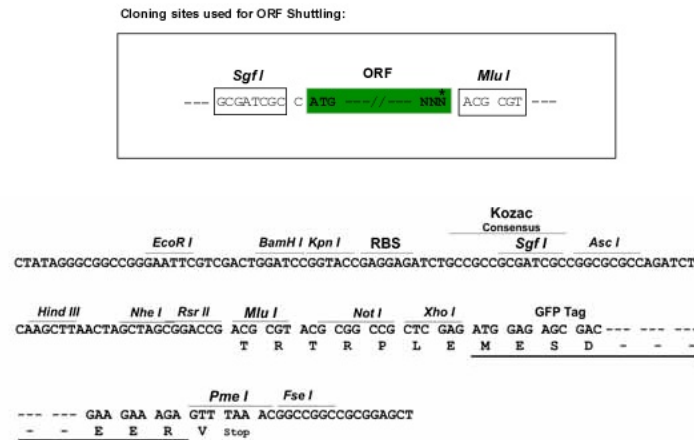
>MG209697 representing NM_010763
 Red=Cloning site Green=Tags(s)

MTTPALLPLSGRRIPPLNLGPPSFPHHRATLRLSEKFILLILSAFITLCFGAFFFLPDSSKHKRFDLGL
 EDVLIPHVDAGKAKNPVFLIHGPDEHRHREERLRNKIRADHEKALEEAKELRKSREEIRAEIQTE
 KNKVAQAMKTKETRVLPVPVQVRVGVSGDPEDMEIKKKRDKIKEMMKHAWDNRYTYGWHNELRPIAR
 KGHSTNIFGSSQMGATIVDALDTLYIMGLHDEFMDGQRWIEENLDFSVNSEVSVFEVNIREFIGLLAAYY
 LSGEEIFKTKAVQLAEKLLPAFNTPTGIPWAMVNLKSGVGRNWGWASAGSSILAEFGTLHMEFVHLSYLT
 GDLTYYNKVMHIRKLLQKMERPNGLYPNYLNPRTGRWGQYHTSVGGLGDSFYEYLLKAWLMSDKTDHEAR
 RMYDDAVEAIEKHLIKKSRGGLVFIGEWKNGHLERKMGLACFAGGMFALGADGSRKDKAGHYELGAEI
 ARTCHESYDRTALKLGPESFKFDGAVEAVVRQAEKYYILRPEVIETYWYLWRFTHDPRYRQGWGEAALA
 IEKSCRVSGGFSGVKDVPYPTPVHDDVQSFFLAETLKLYLLFSGDDLPLDHWVFNTEAHLPLVRLRLA
 NSTLSGNPAVR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010763

ORF Size: 1923 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

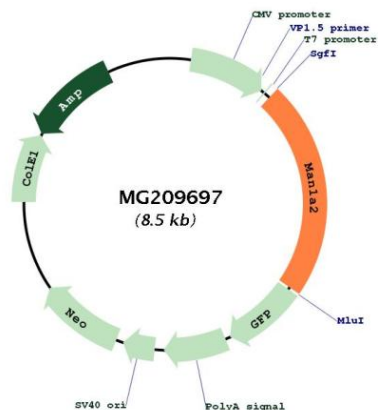
RefSeq: [NM_010763.2](#), [NP_034893.1](#)

RefSeq Size: 7960 bp

RefSeq ORF: 1926 bp

Locus ID:	17156
UniProt ID:	P39098
Cytogenetics:	3 F2.2
Gene Summary:	Involved in the maturation of Asn-linked oligosaccharides. Progressively trim alpha-1,2-linked mannose residues from Man(9)GlcNAc(2) to produce Man(5)GlcNAc(2).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209697