

Product datasheet for **MR209797**

Man1a (NM_008548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1a (NM_008548) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Man1a
Synonyms:	Man1a1; PCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209797 representing NM_008548
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCCGTGGGGGCTGTTGCCCTCTTCAGTAGCCCTGGGGCGGGCGCTGGGCAGTGGCCTGGGCG
 GGGGGCTTGGCGCGGGAGGAAGGGTCTGGCCCGCTGCCTTCGCCTACCGAGAAGTTCGTGCTGCT
 GCTGGTGTTCAGCGCTTCATCACGCTCTGCTTCGGGGCAATCTTCTCCTGCCTGACTCCTCCAAGCTG
 CTCAGCGGGTCTGTTCCACTCCAACCTGCCTTGACGCCGCGGGCGGAGCACAAGCCCGGGCTCGGGG
 CGCGTGGGAGGATGCCCGGAGGGGAGAGTCCGGCACCGCGAGGAAGCGCGCTGGGGACCTGGAGC
 TGGACTGGAAGACAACCTAGCCAGGATCCGCGAAAACACGAGCGGGCTCTCAGGGAAGCCAAGGAGACC
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 AGAAA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR209797 representing NM_008548
 Red=Cloning site Green=Tags(s)

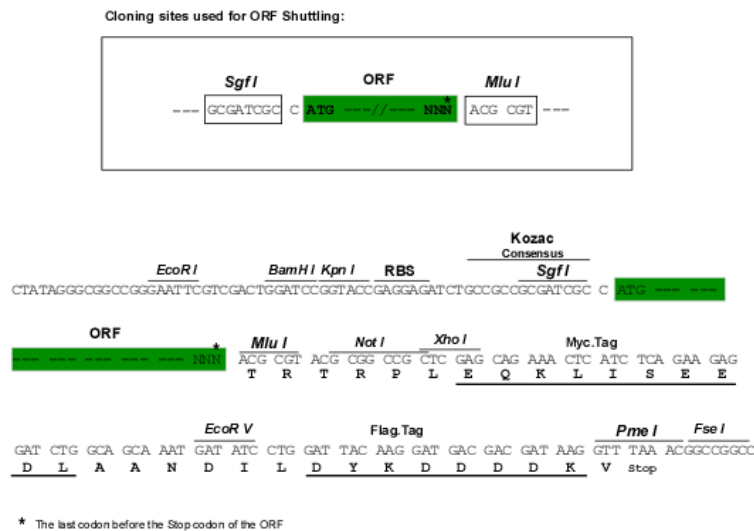
MPVGGLLPLFSSPGGGGLGSLGGGLGGGRKSGSPAARLTKFVLLLVFSAFITLCFGAIFFLPDSSKL
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 EFGTLHLEFMSHLSGDPVFAEKVMKIRTVLNKLDKPEGLYPNYLNPSSGQWQHHVSVGGLGDSFYEY
 LLKAWLMSDKTDLEAKMYFQAIETHLIRKSSGLTYIAEWKGLLEHKMGHLTCFAGGMFALGADG
 APEARAHYLELGAEIARTCHESYNRTYVKGPEAFRFDGVEAIATRQNEKYYILRPEVIETMYMWRL
 THDPKYRTWAVEAVEALESHCRVNGGYSGLRDVYIARESYYDDVQSFFLAETLKYLILFSDDDLPLEH
 WIFNTEAHPFPIREQKEIDGKEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008548

ORF Size: 1965 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_008548.5](#)

RefSeq Size: 3889 bp

RefSeq ORF: 1968 bp

Locus ID: 17155

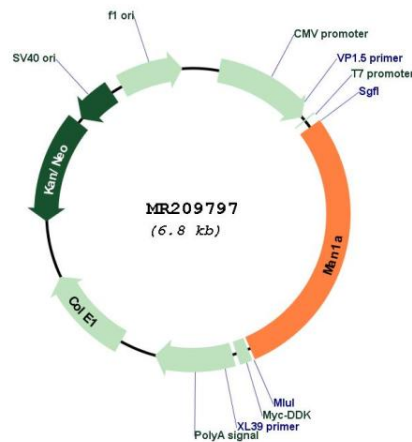
UniProt ID: [P45700](#)

Cytogenetics: 10 B3

MW: 73.7 kDa

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 MR209797