

Product datasheet for **RR204699**

Manba (NM_001031655) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Manba (NM_001031655) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Manba
Synonyms:	MGC116230; MGC125196
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR204699 representing NM_001031655
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATCTCCACCTGCTCTTTCTGTTGGCGCTGTGCGGGCAGGCTGTATGGCCGCAAGTCCAGCTACA
 GCCTGAGAGGGAGCTGGCGGGTGAACAACGGGAATAGTTCCTGGAGCTGCCGGCTACTGTCCCTGGCTA
 TGTGCACAGCGCCTGCAGCAGCACGGGCTGATCCAGGATCCTTACTACAGATTTAATGACCTGAACTAC
 AGATGGATTTCTTAGATAAACTGGACCTACAGCACAGAATTTAAAATCCCCTTTAATCGCAGTGAATGGC
 AGAAGGTAAAGTTGATTTTTGACGGAGTCGATACAGTTGCAGAAATCCTGTTCAATAATGCACTATTGG
 GAAGACAGACAACATGTTACCAGATATAGCTTTGACGTCACCAATGTGGTCAAAGACGTGAACTCCCTA
 AAGCTGCGGTTCCAGTCAGCAGTGCAGTATGCTGAGTGCAGAGCAAAGCTCACACTCAATACCGGGTGC
 CCCCAGAGTGCCCCCAGTGAACAGAAGGTGAATGCCACGTCAACTTCATCCGAAAGGAGCAGTGCTC
 CTTGACTGGGACTGGGGCCTTCTTTCCCTCTCAAGGAATCTGAAAGACGTTAGAATCGAAGCCTAT
 AACATCGCTCATCTGGATCACCTGACATTTTTGCCATTGTATGATAACACTTCTCAGGCGTGGACTATTG
 AAATAGAGGCTTCTTTGATGTTGTGACACAAAGCCAGTTGGTGGTCAAGTGCAGTATAGCCATCCCCGA
 ACTGAAAACACAGCAGGCAAACCACATTGAACTTCAACATGGGCAAAGGATTGTTAAACTCCTTGTCAAA
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 ACTTATAGAAGAACCTATAACAGGGTCTCCTGGTCTGAGTTTCTACTTCAAAATTAATGGGCTTCTATA
 TTTCTGAAAGGCTCAAACCTGGATCCCAGCTGACTATTCCAAGACAAAGTCACTTCTGAACTGCTGCAGC
 TCCTTCTCCAGTCCGCCGTGGATGCTAACATGAACACTCTGCGGTGTGGGGGGTGGCTCTACGAGCA
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 CTCTATCCAACCTGAGCCAGGCTTCTAGAGTCAAGTGAAGAAAGAGTCACTTACCAGGTCAGGAGACTGA
 AGTCTCACCCCTCCGTATCATCTGGAGTGGTAATAATGAGAATGAAGTGGCTCTCAGGGTGAAGTGGTT
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 GAGATTGTCTTATCGGAAGATAGGAGTCGTCGGTTCATTGCATCCAGCCCAACCAATGGGGTCAAAACCA
 TGACGGAAGGCTGGATCTCTAAGGACCCTTATAGCACCCAGTATGGCGACATGCATTTTTACGACTATT
 CAGTGACTGCTGGGACTGGAAGGCTTTTCCAAAAGCTCGATTAGTGTCTGAATATGGCTACCAGTCTGG
 CCTTCTTCCAGCACACTACAAAAGTCTCTCGTCAAGAGGACTGGTCTTACAGCAGCCGCTTCTCCCTTC
 ATCGGCAGCATCATGAAATGGCAACAATGAAATGCTTACCAGGTACAGCTTCATTTCCAACCTCCCCCA
 AAGGAGAGACCCAGTGCCTGCATTTAAAGATACCATCTACCTCACTCAGGTGATGCAGGCCCAAGTATC
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 GAAAATGCTTCATTACTTCGCTCAGCGTTTCTTCGCTCCGCTGCTGCCAGTCCGTTTTGAAGATGAAGGC
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 GGTCTGTTCCAGATGCCAGTGTCTAAGCTGCTGAAGAGGTGTAAGAATGCACAAGGGACACCTGTGTG
 GTTTCCTTTTACCTCTCAACTGACAATGAACCTTTCAGTCCAACCAACTACCATTTTCTGCTCCTCCTGA
 AGGATGCCAAAGGGATGGTCAAGGCCAACATCACTGTCAGCATCTCTCAGAAGGGTATCTATTTGTTTT
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 GCAAGAGTGAGCTGCAGCAGGCTTCAAGTGCACCTCCCTGACAGATCTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204699 representing NM_001031655
 Red=Cloning site Green=Tags(s)

MHLHLLFLLALCGAGCMAAGPSYSLRGSWRVSNNGSSLELPATVPGYVHSALQQHGLIQDPYYRFNDLNY
 RWISLDNWTYSTEFKIPFNRSEWQKVKLIFDGVDTVAEILFNNVTIGKTDNMFTRYSFVDTNVVVDVNSL
 KLRFSQSAVQYAEQCSKAHTQYRVPPECPPEVQKGECHVNFIRKEQCSFSWDWGPSFSPSQGIWKDVRIEAY
 NIAHLDHLTFLPLYDNTSQAWTIEIEASFDVVSTKPVGGQVTIAIPELKTQQANHIELQHGQRIVKLLVK
 IRKDVTVETWPHGHGNQTGYNTTILFALDGGGLIEKAAKVYFRVTVQLIEEPITGSPGLSFYFKINGLPI
 FLKGSNWIPADSFQDKVTSELLQLLLQSAVDANMNTLRVWGGGIYEQDEFYALCDELGIMVWQDFMFASA
 LYPTPEGFLESVRKEVTYQVRRLLKSHPSVIIWSGNNENEVALRVNWFHVNPRDLGTYINDYVTLVYKTI
 EIVLSEDRSRPFIASSPTNGVKTMTTEGWSKDPYSTQYGMHFYDYFSDCWDWKVFPKARLVSEYGYQSW
 PSFSTLQKVSQEDWSYSSRFLHRQHGGNNEMLHQVQLHFQLPQRDPVRAFDTIYLTQVMQAQCI
 KTETEFYLRSEIVNGEGHTMGALYQLNDIQAPSWASLEYGGKWKMLHYFAQRFFAPLLPVGFEDG
 VFVYVGVSDLHKDYPTKLTVRLHRWSSQKPLCTFVSLSAVIKAGEAMVLFQMPVSKLLKRCKECTRDTCV
 VSFYLDNDNELFSPTNYHFLSSLKDAKGMVKANITVVISQKGLFVFDLKSSTSAITPFVWLDVGSIPGR
 FSDNGFLMIKKELSVLFYPWKPTSKSELQQAFSVTSLTDLY

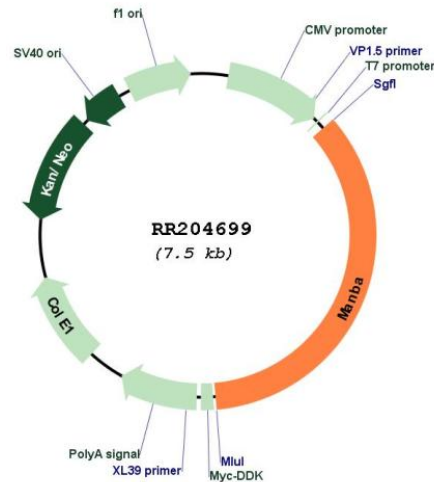
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001031655

ORF Size: 2643 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_001031655.1](#), [NP_001026825.1](#)

RefSeq Size: 3688 bp

RefSeq ORF: 2646 bp

Locus ID: 310864

UniProt ID: [Q4FZV0](#)

Cytogenetics: 2q43

MW: 101.2 kDa

Gene Summary: Exoglycosidase that cleaves the single beta-linked mannose residue from the non-reducing end of all N-linked glycoprotein oligosaccharides.[UniProtKB/Swiss-Prot Function]