

Product datasheet for **SC116441**

MANBA (NM_005908) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MANBA (NM_005908) Human Untagged Clone
Tag:	Tag Free
Symbol:	MANBA
Synonyms:	MANB1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116441 sequence for NM_005908 edited (data generated by NextGen Sequencing)

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ATGCGCCTCCACCTGCTCCTGCTGCTCGCGCTGTGCGGTGCAGGCACCACCGCCGCGGAG
CTCAGTTACAGCTTGGCTGGCAACTGGAGCATCTGCAATGGGAACGGCTCGCTGGAGCTG
CCCGGGCGGTCCCTGGCTGCGTGCACAGCGCCTTGTCCAGCAGGGCCTGATCCAGGAT
TCTTACTACAGATTTAATGACCTTAACACAGATGGGTCTCTTTGGATAACTGGACCTAT
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GAGCTGCGTTTCCAGTCAGCGGTGTTGTATGCAGCACAGCAGAGCAAAGCTCACACTCGC
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ATTAGCAAGAATATTACTGTAGAAACTTGGTGGCCTCATGGACATGGAAACCAGACTGGG
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TATGAACCTGTGATGAACTAGGAATAATGGTATGGCAGGATTTTATGTTTGCCTGCC
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TGTGGGAATTGCACACGGGAAAGCTGTGTGTTTCTTTTACCTTTCAGCTGACCATGAA
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AAGGCGCAGATCACTGCCATCATCTCAGCAAGGTGACATATTTGTTTTGACCTGGAG
ACCTCAGCTGTCGCTCCCTTTGTTTGGTGGATGTAGGAAGCATCCAGGGAGATTTAGT
GACAATGGTTTCTCATGACTGAGAAGACGAACTATATTTTACCCTTGGGAGCCC
ACCAGCAAGAATGAGTTGGAGCAATCTTTTCATGTGACCTCCTTAACAGATATTTACTGA

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Clone variation with respect to NM_005908.3
757 g=>a;2150 c=>t

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005908 unedited</p> <pre>GTTAGGATTTGTATACGACTCATATAGGCGGCNCGCAATTCGCACGAGGCTCCACATCT CGGTGGCGCGGGATCTCAAGAGCGCCTCCACCTGCTCCTGCTGCTCGCGCTGTGCGGTGC AGGCACCACCGCCGCGGAGCTCAGTTACAGCTTGGCTGGCAACTGGAGCATCTGCAATGG GAACGGCTCGCTGGAGCTGCCCGGGCGGTCCCTGGCTGCGTGCACAGCGCCTTGTCCA GCAGGGCCTGATCCAGGATTCTTACTACAGATTTAATGACCTTAACTACAGATGGGTCTC TTTGGATAACTGGACCTATAGCAAAGAATTTAAAATCCCCTTTGAAATTAGCAAATGGCA AAAAGTAAATTTGATTCTTGAGGGAGTGGATACGGTTTCAAAAATCCTGTTCAATGAAAT CACTATTGGGAAACAGACAATATGTTCAATAGATATAGCTTTGATATTACCAACGTGGT CAGGGACGTGAACTCCATTGAGCTGCGTTTCCAGTCAGCGGTGTTGTATGCAGCACAGCA GAGCAAAGCTCACACTCGCTACCAGTTCCCCAGACTGCCCTCCACTTGTGCAGAAGGG TGAATGCCATGTCAACTTTGTTCCGGAAGGAGCAATGTTCCCTTTAGTTGGGACTGGGGCC TTCCTTTCTACCCAGGGAATCTGGAAAGATGTTAGAATTGAAGCCTATAATATTTGTCA CCTGAACACTTACATTNTCCCATATATGATAAGAGTGCCAGGAGTGAATCTGGAA ATAGAGTCTACATTCTGATGTGTGAGCTCAAGCCAGTTGGTGGTCAAGTGATCATAGCCA TNCCTAGTTGCAAACACACAGACATACAGCATTGAACTTCAACCTGGAAAAAGGATGTT GAGCCTATTGTGAACACTAGCAGAATATT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005908 unedited</p> <pre>ATGGACCGAGGCTCCCCTTCTACAACGAGTTTTTCTTTTTTTTTTTTTTTTTTTTACAAGG TATTTTATATAACTTTTTTATTTTATATACACTTTCACAGTGGACAGAAAAATACCCA TATACCTTTACCCAAATAGCTACCACAAAAAATCTCTGTGAAACATTTCAATCGCCAT TCCTCTGAAATAATAACAAAGCACTTTATTTGAGTATTCGGTATTCCTCCAAAGCTAGCT GGGAAAGACCTACATCACCTCAAAACCTTCCATTGGGTTCCATAGATCCTGCCATGTCAC ATTCTTGTAAACGAGTGCAGGGCCATCTTGTATAAAGTTCATGTCCTGCTAAAGCTG AAAGGGGAAGGGCTAAAAACACAGTCTGGCACAGATTCAGGACACCCCGGCACAGGCT TGTTTGAGGACATTGCCTGGGTAACAGCCTCCCTGAAAGTGTTCAGGGTACAACCTTT CACAGAGCAATCGTTCAAATGCGGGGCAGCACGCAGACATGTCTCTCGGCTTCTCTCCT GACTCTGTGGCCTTCTCTCCAGTCGGTGTCTTAAAAATGCTTTATTTCCATGGTCCACT GAAAATACAACCTAAATTCCTTCAGTAAATATCTGTCAAGGAGGCCACATGAAAAGATTG CTCCAACCTCATTTCTGCTGGATGGCCTCCAAGGGTAAAAAATATAATTCTGTCTTCTCA GCCATGAAGGAACCTTGCCCTACATCTCCCTGGGATGCTTCTACTTCAACCAAAACAA AGTAGCGACCGTTGAAGTCTCCAGGTCAAAAAAATAGTACCTTGCTGAAATAGATGCA CTGATCGGCGCTTGAAAACCCAGGTCTCCTCCGGGAGGACACAAGGGAATTGGCGGCT CAGATTTATGTCACCTGAAGGAAAGGAACCCCATTTTCCGGGAATCCAACCTTCTAAAA TAAACATCCTCCTAAAGGGAAGCTTC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005908
Insert Size:	3160 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005908.2](#), [NP_005899.2](#)

RefSeq Size: 3308 bp

RefSeq ORF: 2640 bp

Locus ID: 4126

UniProt ID: [O00462](#)

Cytogenetics: 4q24

Domains: Glyco_hydro_2_C

Protein Pathways: Lysosome, Other glycan degradation

Gene Summary: This gene encodes a member of the glycosyl hydrolase 2 family. The encoded protein localizes to the lysosome where it is the final exoglycosidase in the pathway for N-linked glycoprotein oligosaccharide catabolism. Mutations in this gene are associated with beta-mannosidosis, a lysosomal storage disease that has a wide spectrum of neurological involvement. [provided by RefSeq, Jul 2008]