

## Product datasheet for **SC319430**

### MAN2B1 (NM\_000528) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MAN2B1 (NM_000528) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAN2B1
Synonyms:	LAMAN; MANB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000528.2  
 CCCAGGAGGAAGCTGCTGAGCCATGGGCGCCTACGCGGGCTTCGGGGTCTGCGCTCG  
 CGGCTGCCTGGACTCAGCAGGCCCTGGACCATGTCCCAGCCCTGCGGCCACCGTCCC  
 GCCTCTGCTTTTTCTTTTGTGCTGGCGGCTGCCGGTCTCGGGCCGGGGATACGA  
 GACATGCCCCACAGTGCAGCCGAACATGCTGAACGTGCACCTGCTGCCTCACACATGA  
 TGACGTGGGCTGGCTCAAACCGTGGACCACTTTTATGGAATCAAGAATGACATCCA  
 GCACGCCGGTGTGAGTACATCCTGGACTCGGTCACTCTGCCTTGTGGCAGATCCAC  
 CCGTCGCTTCATTTACGTGGAGATTGCCTTCTTCTCCCCTTGGTGGCACCAGCAGACAA  
 TGCCACACAGGAAGTCGTGCGAGACCTTGTGCCAGGGGCGCCTGGAGTTCGCCAATGG  
 TGGCTGGGTGATGAACGATGAGGCAGCCACCCACTACGGTGCCATCGTGGACCAGATGAC  
 ACTTGGGCTGCGCTTTCTGGAGGACACATTTGGCAATGATGGGCGACCCCGTGTGGCCTG  
 GCACATTGACCCCTTCGGCCACTCTCGGGAGCAGGCCTCGCTGTTTGCAGATGGGCTT  
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 GGAGATGGAGCAGGTGTGGCGGGCCAGCACCAGCCTGAAGCCCCGACCGCGGACCTCTT  
 CACTGGTGTGCTTCCCAATGGTTACAACCCGCCAAGGAATCTGTGCTGGGATGTGCTGTG  
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 CAGTCGGCCGGCCCTCAAACGCTACGAGCGCCTCAGCTACAACCTCCTGCAGGTGTGCAA  
 CCAGCTGGAGGCGCTGGTGGCCCTGGCGGCCAACGTGGGACCCTATGGCTCCGGAGACAG  
 TGCACCCCTCAATGAGGCGATGGCTGTGCTCCAGCATCACGACCGCTCAGCGGCACCTC  
 CCGCCAGCAGTGGCCAACGACTACGCGCGCCAGCTTGCAGGAGCTGGGGCCCTTGCGA  
 GGTCTTCTGAGCAACGCGCTGGCGCGGCTCAGAGGCTTCAAAGATCACTTACCTTTTG  
 CCAACAGCTAAACATCAGCATCTGCCCGCTCAGCCAGACGGCGGCGCTTCCAGGTCAT



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CGTTTATAATCCCCTGGGGCGGAAGGTGAATTGGATGGTACGGCTGCCGGTCAGCGAAGG
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CAGCTCAGACAGCCAGGCGCACCCCTCCGGAGCTGCTGTTCTCAGCCTCACTGCCCGCCCT
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ACAGCCCATCCCCAGAAGATCCTGGTCCCCTGCTTTAACCATCGAAAAAGACACATCCG
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GACCACGCTGGTGGCCAAACCAGCTCCGCGAGGCAGCCTCAGGCTCAAGTGGACAACAAA
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ACCCATGGAAATCCGCACTTTCCTGGCCTCAGTTCAATGGAAGGAGGTGGATGGTTAGGT
CTGCTGGGATGGGCCCTCCAAGCCCAAGCCTCCTGCTCCGGGGCAGACCAGACTCTGAC
TCTCCTTTGGGGCTGCTGCCATTAACGCTACTACTAAGACTCAAAAAAAAAAAAAAAA
AAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_000528
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:	<a href="#">NM_000528.2</a> , <a href="#">NP_000519.2</a>
RefSeq Size:	3468 bp
RefSeq ORF:	3036 bp
Locus ID:	4125
UniProt ID:	<a href="#">O00754</a>
Cytogenetics:	19p13.13
Domains:	Glyco_hydro_38
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Other glycan degradation
Gene Summary:	<p>This gene encodes an enzyme that hydrolyzes terminal, non-reducing alpha-D-mannose residues in alpha-D-mannosides. Its activity is necessary for the catabolism of N-linked carbohydrates released during glycoprotein turnover and it is member of family 38 of glycosyl hydrolases. The full length protein is processed in two steps. First, a 49 aa leader sequence is cleaved off and the remainder of the protein is processed into 3 peptides of 70 kDa, 42 kDa (D) and 13/15 kDa (E). Next, the 70 kDa peptide is further processed into three peptides (A, B and C). The A, B and C peptides are disulfide-linked. Defects in this gene have been associated with lysosomal alpha-mannosidosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>