

Product datasheet for **SC319161**

MAN1B1 (NM_016219) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1B1 (NM_016219) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAN1B1
Synonyms:	ERMAN1; ERManI; MANA-ER; MRT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_016219.2
 GTTGACGGCGCTGCGATGGCTGCGCTGCGAGGGCAGGAGAAGCGGAGCTCTCGGTTCTCT
 CAGTCGGACTTCTGACGCCGCCAGTGGGCGGGGCCCTTGGGCCGTCGCCACCACTGTA
 GTCATGTACCCACCGCCGCCGCCGCCCTCATCGGGACTTCATCTCGGTGACGCTGAGC
 TTTGGCGAGAATATGACAACAGCAAGAGTTGGCGGGCGCTCGTGTGGAGGAAATGG
 AAGCAACTGTGAGATTGCAGCGGAATATGATTCTTCTCCTTGCCTTTCTGCTTTTC
 TGTGGACTCCTTCTACATCAACTTGGCTGACCATTGGAAAGCTCTGGCTTTCAGGCTA
 GAGGAAGAGCAGAAGATGAGGCCAGAAATTGCTGGTTAAAACCAGCAAATCCACCCGTC
 TTACCAGCTCCTCAGAAGCGGACACCGACCCTGAGAATTACCTGAGATTTTCGTCACAG
 AAGACACAAAGACACATCCAGCGGGGACCACCTCACCTGCAGATTAGACCCCAAGCCAA
 GACCTGAAGGATGGGACCCAGGAGGAGGCCACAAAAGGCAAGAAGCCCTGTGGATCCC
 CGCCCGAAGGAGATCCGCAGAGGACAGTCATCAGCTGGAGGGGAGCGGTGATCGAGCCT
 GAGCAGGGCACCGAGCTCCCTTCAAGAAGAGCAGAAGTCCCACCAAGCCTCCCCTGCCA
 CCGGCCAGGACACAGGGCACACCAGTGCATCTGAACTATCGCCAGAAGGGCGTGATTGAC
 GTCTTCTGCATGCATGGAAGGATACCGCAAGTTTGCATGGGGCCATGACGAGCTGAAG
 CCTGTGTCCAGGTCTTCAAGTGTGGTTTGGCCTCGGTCTCACACTGATCGACGCGCTG
 GACACCATGTGGATCTTGGGTCTGAGGAAAGAATTTGAGGAAGCCAGGAAGTGGGTGTCG
 AAGAAGTTACACTTTGAAAAGGACGTGGACGTCAACCTGTTTGGAGCACGATCCGCATC
 CTGGGGGGCTCCTGAGTGCCTACCACCTGTCTGGGGACAGCCTTCTCCTGAGGAAAGCT
 GAGGATTTTGGAAATCGGCTAATGCCTGCCTCAGAACACCATCCAAGATTCTTACTCG
 GATGTGAACATCGGTACTGGAGTTGCCACCCGCCACGGTGGACCTCCGACAGCACTGTG
 GCCGAGGTGACCAGCATTAGCTGGAGTCCGGGAGCTCTCCCGTCTCACAGGGGATAAG
 AAGTTTCAGGAGGCAAGGTGAGAAGGTGACACAGCACATCCACGGCCTGTCTGGGAAGA
 GATGGGCTGGTGCCATGTTTCAATACCCACAGTGGCCTTTCACCCACCTGGGCGTA
 TTCACGCTGGGCGCCAGGCGGACAGCTACTATGAGTACCTGCTGAAGCAGTGGATCCAG
 GGCGGGAAGCAGGAGACACAGCTGCTGGAAGACTACGTGGAAGCCATCGAGGGTGTGAGA
 ACGCACCTGCTGCGGCACTCCGAGCCAGTAAGCTCACCTTTGTGGGGAGCTTGCCAC
 GGCCGCTTCAAGTCCAAAGATGGACCACCTGGTGTGCTTCTGCCAGGGACGCTGGCTCTG
 GGCGTCTACCACGGCCTGCCCGCCAGCCACATGGAGCTGGCCAGGAGCTCATGGAGACT
 TGTTACCAGATGAACCGCAGATGGAGACGGGGCTGAGTCCCAGATCGTGCATCAAC
 CTTTACCCCGAGCCGGGCGTGGGACGTTGAGGTCAAGCCAGCAGACAGGCACAACCTG
 CTGCGGCCAGAGACCGTGGAGAGCCTGTTTACCTGTACCGCGTACAGGGGACCGCAA
 TACCAGGACTGGGGCTGGGAGATTCTGCAGAGCTTACGCCGATTACACGGGTCCCTCG
 GGTGGCTATTCTTCCATCAACAATGTCCAGGATCCTCAGAAGCCCGAGCCTAGGGACAAG
 ATGGAGAGCTTCTTCTGGGGGAGACGCTCAAGTATCTGTTCTTCTGCTTCTCTCGATGAC
 CCAAACCTGCTCAGCCTGGACGCCTACGTGTTCAACACCGAAGCCACCCCTTGCCTATC
 TGGACCCCTGCCTAGGGTGGATGGCTGCTGGTGTGGGGACTTCGGGTGGGAGAGGCACC
 TTGCTGGGTCTGTGGCATTTCCTAAGGGCCACGTAGCACCGGCAACCGCAAGTGGCC
 AGGCTCTGAACCTGGCTCTGGGCTCCTCCTCGTCTGCTTTAATCAGGACACCGTGAGGA
 CAAGTGAAGCCGTCAGTCTTGGTGTGATGCGGGGTGGGCTGGGCCGCTGGAGCCTCCGCC
 TGCTTCTCCAGAAGACACGAATCATGACTCACGATTGCTGAAGCCTGAGCAGGTCTCTG
 TGGGCCGACCAGAGGGGGCTTCGAGGTGGTCCCTGGTACTGGGGTGACCGAGTGGACAG
 CCCAGGGTGCAGCTCTGCCCGGGCTCGTGAAGCCTCAGATGTCCCAATCCAAGGTCTG
 GAGGGCTGCCGTGACTCCAGAGGCTGAGGCTCCAGGGTGGCTCTGGTGTTCACAAGC
 TGGACTCAGGGATCCTCCTGGCCGCCCGCAGGGGGCTTGGAGGGCTGGACGGCAAGTCC
 GTCTAGCTCACGGGCCCTCCAGTGAATGGGTCTTTTCGGTGGAGATAAAAAGTTGATT
 GCTCTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_016219

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:	<ol style="list-style-type: none"> 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_016219.2 , NP_057303.1
RefSeq Size:	2769 bp
RefSeq ORF:	2100 bp
Locus ID:	11253
UniProt ID:	Q9UKM7
Cytogenetics:	9q34.3
Domains:	Glyco_hydro_47
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>This gene encodes an enzyme belonging to the glycosyl hydrolase 47 family. This enzyme functions in N-glycan biosynthesis, and is a class I alpha-1,2-mannosidase that specifically converts Man9GlcNAc to Man8GlcNAc isomer B. It is required for N-glycan trimming to Man5-6GlcNAc2 in the endoplasmic-reticulum-associated degradation pathway. Mutations in this gene cause autosomal-recessive intellectual disability. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 11. [provided by RefSeq, Dec 2011]</p> <p>Transcript Variant: This variant (1) encodes the supported protein. Sequence Note: This RefSeq uses the 5'-most in-frame start codon, resulting in a protein N-terminus that is primate-specific. The use of an alternative downstream start codon, which is better conserved among vertebrates, is also possible, and would result in a protein that is 36 aa shorter at the N-terminus. It is unknown which start codon is preferentially used in vivo.</p>