

Product datasheet for **RN217061**

Man1b1 (NM_001109196) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1b1 (NM_001109196) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Man1b1
Synonyms:	ERMan1; RGD1563595
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217061 representing NM_001109196
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTACCCGCCGCCGCCGCCGCCGCCCTCACCGGGACTTCATCTCGGTGACGCTGAGCCTGGGAGAGA
 GCTACGACAACAGCAAGAGCCGGCGGGCGCTCATGCTGGAGGAAATGGAAGCAGCTTTTCGAGGTTACA
 GCGGAATGTGATTCTCTTCGTCCTGGGCTTTCTGATTCTCTGTGGATTTCTGTATTCTCTTCAGGTGCT
 GACCAGTGGAAAGCTCTGAGTGGCAGCCGTGCAGAAGTAGAGAAGATGAAGCTAGAAGTCTGCCTGTCT
 TACCAGCTCCTCAGAAGGAAAGTCTGAACCAGAAGGGTTTGCAGACATACTCTCTCAGAAGCGGCAAAAG
 GCATTTGCGGGCGGCCCTCCGCACCTGCAGATCAGACCCCCAACACCGTCTCCAAAGATGGGATGCAG
 GATGATGCTAAGGAGAGGAAGCAGCCCTGGGGAAGGCTCAGCAGGAAGAAAACACCCAGAGAACCGTCA
 TCAGCTGGCGGGAGCAGTAATTGAGCCTGAACAGGCCACTGAACCTCCTTCCAAAAGAGCTGAAGCCTC
 CATCAAGCCTCTGTTTTGGCGTCCAGGATATGGAAAGGTTACAAAAGTTCGCTTGGGGCCATGATGAAGTGAAGC
 CTGTGTCCAAAACCTTCAGTGAGTGGTTTGGCCTGGGCCTCACCTGATCGATGCCTTGGATACCATGTG
 GATTTTGGGTCTGAAGCAAGAAATTAAGGAAGCCAGGAAGTGGGTGTCGGAGAAGTACTGACTTTTCAGAAG
 AATGTCGATGTCAACCTGTTTGAAGTACTATCCGAATCTTAGGGGGCTGCTGAGTGCCTACCACCTGT
 CTGGGGACAGCCTCTTCTGAGCAAGCCGAGGATTTTGGAAACCGGTTAATGCCTGCCTTACCACACC
 CTCCAAGATTCATACTCTGATGTGAACATTGGCACTGGGTTTGGCCACTCGCCCAAGTGGACTTCAGAC
 AGCAGCGTGGCAGAAGTACGAGCATTGAGTTGGAGTCCGAGAGCTCTCCCGTCTTACCGGATTAAGA
 AATTCAGGAGCCGTGGAGGAAGTGACAAAGCACATCCACTCCCTGTCTGGGAAGAAAGACGGGTGGT
 GCCTATGTTTCATCAACAGAACAGCGCCCTCTCACCCACCCGGGAGTGTTCACCTTGGGTGCCAGGGCT
 GACAGCTACTACGAATACCTGCTGAAACAGTGGATCCAGGGTGGCAAGAAGGAGACACAGTTGCTGGAAG
 ACTATGTTAGAGCCATCGAGGGATCAAAGCTCATCTGCTTCGACAGTCTCAGCCAGAAAGCTCACCTT
 CGTGGGAGAGCTTGGCCATGGCCGCTTCAAGTGGCAAGATGGACCCTTGGTGTGCTTCTGCCAGGGACG
 CTGGCCTTGGGCGTCCACCATGGCCTACCAGCTGACCACATGGATCTGGCTCGGGCACTCATGGAGACCT
 GCTACCAGATGAACCAACAGATGGAGACAGGTCTGAGCCCTGAGATTGCACATTTCAACATGTACCCTCG
 AGCAGATCATAAAGACGTGGAGGTCAAGCCGGCTGATAGGCACAACCTGCTGCGGCCGGAGACCGTGGAA
 AGCCTGTTCTATCTGTACCGCTCACAAAAGACCAGTACCAAGACTGGGGCTGGGAAATCCTGCAGA
 GCTTCAATAAGTACACACGGGTTCCCTCGGGTGGCTATTCTTCTATCAACAACGTCCAGAATCCACAA
 GCCTGAGCCCAGGGACAAGATGGAGAGCTTCTTTGTGGGAGAAACTGAAGTACCTCTACCTGCTGTTT
 TCTGATGACCTGGAGCTGCTCGGCCTGGACACCTGTGTGTTTAAACACAGAAGCTCATCCCCTGCCATCT
 GGTCTCCTGCCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001109196

Insert Size: 1974 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001109196.1, NP_001102666.1</u>
RefSeq Size:	3694 bp
RefSeq ORF:	1974 bp
Locus ID:	499751
UniProt ID:	<u>B2GUY0</u>
Cytogenetics:	3p13
Gene Summary:	Involved in glycoprotein quality control targeting of misfolded glycoproteins for degradation. It primarily trims a single alpha-1,2-linked mannose residue from Man(9)GlcNAc(2) to produce Man(8)GlcNAc(2), but at high enzyme concentrations, as found in the ER quality control compartment (ERQC), it further trims the carbohydrates to Man(5-6)GlcNAc(2) (By similarity). [UniProtKB/Swiss-Prot Function]