

## Product datasheet for **RC239013**

### **MAN1C1 (NM\_001289010) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MAN1C1 (NM_001289010) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAN1C1
Synonyms:	HMIC; MAN1A3; MAN1C; pp6318
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239013 representing NM\_001289010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTCATGAGGAAAGTCCCGGCTTCGTCGCCGCTCCCGTGGGGCTGCGGCTGCCGAGAAGTTCC  
 TCTTCCTCTCTCCTCTCGGGCTGGTACCCTGTGCTTCGGGGCCCTTCTCTGCTGCCCACTCCTC  
 TCGCCTCAAGCGCCTCTTCTGGCCCCCGGACCCAGCAGCCTGGTCTGGAAGTGGTGGCTGAAATCGCC  
 GGCCATGCCCGGCCCGGAGCAGGAGCCGCTCCCAACCCGGCCCCCGCGCGCCGGCCCGGGCGAGG  
 ATGACCCAGCAGCTGGGCCAGTCCCGCCGAGGAAAGGGGGCTGCGGCGACCCGCCCACTGGACC  
 CCGCGAGGAGCCACGGCGGCCCGGGCAATAGCATCCCGGCTCCAGGCCGGGACGAGGGCGTCCCT  
 TTCGCTTTGACTTCAACGCATTCCGGAGCGTCTCCGCCACCCGGTCTGGGAACGAGGGCCGATGAGA  
 GTCAGGAGCCCCAGAGCCAAGTGCAGCCAGCGGGAGAAAATCAAGGAGATGATGCAGTTTGTGGCA  
 GAGCTATAAGCGTTATGCAATGGGAAAAACGAACTCCGTCCTAACAAGGATGGCTACGAGGGTAAC  
 ATGTTTCGGAGGCCTCAGCGGGCAACAGTCATTGACTCCCTCGATACCCTCTACCTCATGGAGTGAAGG  
 AGGAGTTCAGGAGGCCAAGGCCTGGTGGGAGAGGCTTCCACCTGAACGTGAGCGGAGAGCATCCTT  
 GTTTGAGGTGAACATCCGCTACATCGGGGACTCCTCTCAGCCTTCTACCTGACAGGAGAAGAGGTGTC  
 CGAATAAAGGCCATCAGGCTGGGAGAGAAGCTCCTGCCGGCTTCAACACCCCCACGGGAATCCCAAAGG  
 GCGTGGTGAAGTCAAAAGTGGGAACTGGGGCTGGGCCACAGCCGGCAGCAGCAGCATCTTGGCGGAGTT  
 TGGATCCCTGCACTTGAATTCTTACACCTCACTGAACTCTTGGAACCCAGGTCTTGCCTGAAAAGGTC  
 AGGAACATCCGAAGTCTCAGGAAGATCGAAAAGCCCTTTGGCCTCTACCCCAACTTCTCAGCCCAG  
 TGAGTGGGAAGTGGTGAACACCATGTCTCAGTTGGAGGACTCGGGGACAGTTTTTATGAATATTTGAT  
 CAAATCCTGGTTGATGTCGGGCAAGACAGATATGGAGGCTAAAAATATGTACTACGAAGCCTTGGAGGCG  
 ATAGAGACCTACTTGCTGAATGTCTCTCCCGGGGGCTGACCTACATTGCCGAGTGGCGAGGGGGATT  
 TGGACCACAAGATGGGACACTGGCCTGTTTCTCCGGGGCATGATCGCCCTTGGCGCCGAGGATGCCAA  
 GGAAGAAAAGAGGGCCCACTACCAGAGCTCGCAGCCAGATACCAAGACGTGTACAGTACATCGCC  
 CGCTCAGACACCAAACTTGGCCTGAGGCTTCTGGTTTAACTCCGGCAGAGAGGCGTGGCCACCCAGC  
 TGAGCGAGAGCTACTACATCCTCCGGCCAGAGGTGGTGGAGAGCTACATGTACCTGTGGCAGACACCA  
 CAACCCCATCTACAGGAGTGGGCTGGGAGTGGTGGCCTTGAGAAATACTGTGGACAGAAAGCC  
 GGTTCCTCTGGGATCAAGACGTGTACAGTACACCCCAACACGACAACAAGCAGCAGAGCTTCTTTC  
 TAGCGGAGACACTAAAGATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239013 representing NM\_001289010  
 Red=Cloning site Green=Tags(s)

MLMRKVPGFVPASPWGLRPLPQKFLFLLFLSGLVTLFCGALFLLPHSSRLKRLFLAPRTQQPGLVEVVAEIA  
 GHAPAREQEPPNPAPAPAGEDDPSSWASPRRRKGLRTRPTGPREEATAARGNSIPASRPDEGVP  
 FRFDNFNFRSRLRHPVLGTRADESQEPQSQVRAQREKIKEMMQFAWQSYKRYAMGKNELRPLTKDGYEGN  
 MFGGLSGATVIDSLDTLYLMELKEEFQEAKEWVGESFHLNVSGEASLFEVNIRYIGLLSAFYLTGEEVF  
 RIKAIRLGEKLLPAFNTPTGIPKGVVSKSGNWGATAGSSSILAEFGSLHLEFLHLELTELSGNQVFAEKV  
 RNIRKVLRIEKPFGLYPNFLSPVSGNWVQHVSVGGGDSFYEYLKSWLMSGKTDMEAKNMYEALEA  
 IETYLLNVSPGGLTYIAEWRGGILDHKMGHLACFSGGMIALGAEDAKEEKRAHYRELAQAQITKTCHE  
 SYA RSDTKLGPFAFWNSGREAVATQLSESYIILRPEVVESYMYLWRQTHNPIYREWGWVVLAEKCYRTEA  
 GFSGIQVYSSTPNHDNKQSFFLAETLKI

**TRTRP**LEQKLISEEDLAANDILDYKDDDDKV

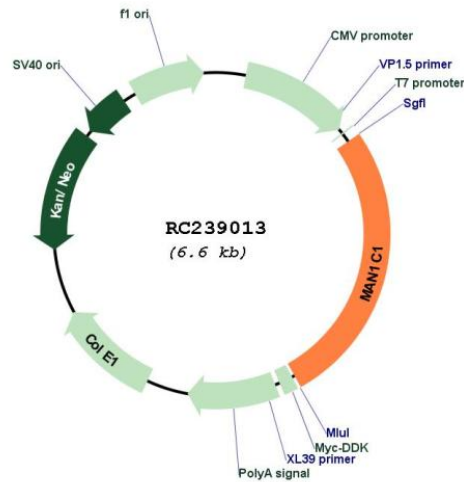
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289010

ORF Size: 1770 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289010.1</a> , <a href="#">NP_001275939.1</a>
<b>RefSeq Size:</b>	4476 bp
<b>RefSeq ORF:</b>	1773 bp
<b>Locus ID:</b>	57134
<b>UniProt ID:</b>	<a href="#">Q9NR34</a>
<b>Cytogenetics:</b>	1p36.11
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>MW:</b>	66.7 kDa
<b>Gene Summary:</b>	Involved in the maturation of Asn-linked oligosaccharides. Trim alpha-1,2-linked mannose residues from Man(9)GlcNAc(2) to produce first Man(8)GlcNAc(2) then Man(6)GlcNAc and a small amount of Man(5)GlcNAc.[UniProtKB/Swiss-Prot Function]