

Product datasheet for **RC202824**

MAN1B1 (NM_016219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1B1 (NM_016219) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MAN1B1
Synonyms:	ERMAN1; ERManI; MANA-ER; MRT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC202824 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

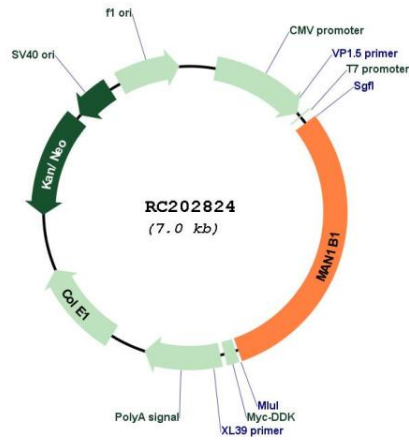
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 GCC**CGCATCGCC**

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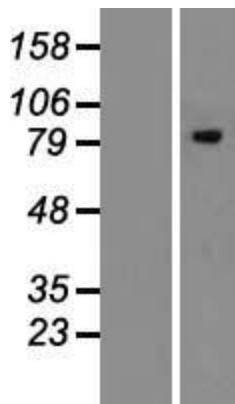
ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 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_016219.5</u>
RefSeq Size:	2787 bp
RefSeq ORF:	2100 bp
Locus ID:	11253
UniProt ID:	<u>Q9UKM7</u>
Cytogenetics:	9q34.3
Domains:	Glyco_hydro_47
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	79.6 kDa
Gene Summary:	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]

Product images:



Circular map for RC202824



Western blot validation of overexpression lysate (Cat# [LY414116]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202824 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).