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Product datasheet for RC200638L2V

MAN2B1 (NM_000528) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	MAN2B1 (NM_000528) Human Tagged ORF Clone Lentiviral Particle
Symbol:	MAN2B1
Synonyms:	LAMAN; MANB
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000528
ORF Size:	3033 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200638).
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_000528.2
RefSeq Size:	3231 bp
RefSeq ORF:	3036 bp
Locus ID:	4125
UniProt ID:	O00754
Cytogenetics:	19p13.13
Domains:	Glyco_hydro_38
Protein Families:	Druggable Genome

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Protein Pathways: Lysosome, Other glycan degradation

MW: 113.7 kDa

Gene Summary: 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]