

Product datasheet for **SC314336**

alpha 1,2 Mannosidase IA (MAN1A1) (NM_005907) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	alpha 1,2 Mannosidase IA (MAN1A1) (NM_005907) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAN1A1
Synonyms:	HUMM3; HUMM9; MAN9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



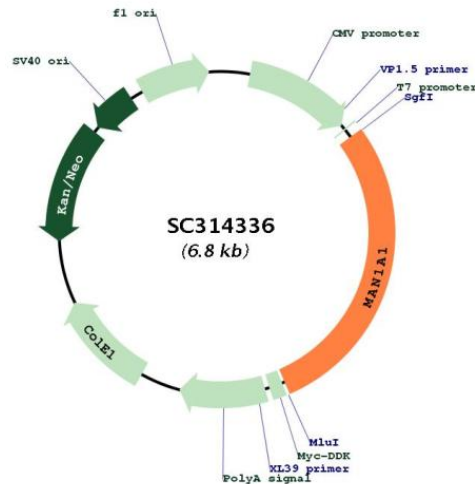
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Fully Sequenced ORF: >SC314336 representing NM_005907.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GGCGCGGTGGCAGGAAGGGGTCGGCCCCCGCCCTCCGCCTGACGGAGAAGTTCGTGCTGCTGCTG
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_005907

Insert Size: 1962 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: 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:

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_005907.3](#)

RefSeq Size: 5044 bp

RefSeq ORF: 1962 bp

Locus ID: 4121

UniProt ID: [P33908](#)

Cytogenetics: 6q22.31

Domains:	Glyco_hydro_47
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	73 kDa
Gene Summary:	This gene encodes a class I mammalian Golgi 1,2-mannosidase which is a type II transmembrane protein. This protein catalyzes the hydrolysis of three terminal mannose residues from peptide-bound Man(9)-GlcNAc(2) oligosaccharides and belongs to family 47 of glycosyl hydrolases. [provided by RefSeq, Jul 2012]