

Product datasheet for SC127164

Mannosidase II (MAN2A1) (NM_002372) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mannosidase II (MAN2A1) (NM_002372) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mannosidase II
Synonyms:	AMan II; GOLIM7; MANA2; MANII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127164 sequence for NM_002372 edited (data generated by NextGen Sequencing)

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ATGAAGTTAAGCCGCCAGTTCCACCGTGTTCGGCAGTGCATCTTCTGTGGTGATTTTC
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 CCCGGCACTCAGAATATAAGTGAGATCAACTTGAGTCCAATGAAATCAGCACATTCCGA
 ATCCAGTTGAGGTGA

Clone variation with respect to NM_002372.2
 1245 t=>a;1377 a=>g;2817 a=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002372 unedited
 CCGCGAATTCGGCACGAGCCGGTGCCGCGGGGCGGGCCCGACCGTCCC GCCCAGAAGT
 TGTAGGGCTTGGCTCCTCGCGATCTTGTTCCTTTCCCCTCCGCTTCTCTGACCTAGCTGC
 GCGGCCCGGCCCGGGAGCTGCCGAACCCGCGCCTCCCCTGGGTGAGGAGGACACGCCTG
 CCCTCGTCGAGAAAACCTTTCTGCCGACTCAGTTGGGGCGGGCGGTGGCAGGAAGTGC GG
 GCAGCGACCTCTCCTCCGCTGCCCGCGCGCCTGCCGGAGGTGCGCGCTGAGCTTGGC
 ATCAAGTTTGTGGGGGCCCTTCCCAGTTGCCGGCAGTCTCGCTCGAGAGGGGGCGC
 CCGACCCCGGGGAGGGCGGCAGGCCAGGGCCAAGGCCAAGGGCGTGTGGTGGCGCCGGAG
 ACTAGTGCGGAGCAAGGCGGGACTCGCACCCGCATCCGAGAGCGCGGAGGTGCGCGCAN
 CCCGGGAGAAGGGAGCCCTCGGGCGCTGCTTCTANAGTCCACAGTGCCTGTCTCCTTT
 GGCTGAGGAGAGTGTCTGGCCCGAGTCTATCGAGGAAAATGAAGTTAAGCCCCGAGTT
 CACCGTGTTCGGGAGTGCATCTTCTGGGGGGGGATTTTCTCGCTCTACCTGAGGCTGG
 ACCGGGTCACTTAGACTACCCAGGAACCCGGGCGCGAGGGCTCCTTCCCTCAAGGCC
 AGCTCTAAATGGTGAAGAAAAATAT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002372 unedited CCCCTCCATTAGCTTGCCCGCGCCGCAATCTACGATCGGTTTTTTTTTTTTTTTTTTA AAAAATGTGCTTCTTTATTGCACGTCAAACCAAGAAGGTATAAAAGCCAATGATTCTCAA TCCAAATGTGAAAGTCAGGTTACCTCAACTGGATTCCGAATGTGCTGATTTCCATTGGA CTCAAGTTGATCTCACTTATATTCTGAGTGCCGGGAGGTGAATGCATCAAGGATAGTGAT GAAGGTGTGAGACTTTGACAATAAACTTGTTTAAAAGTTTCTGTACCAATATCTTTCCC TGAGTAGTAGAACAAAACAGTCCTGTGCCTTTGCTAGAGAACCGACAATCAAACCTTTT CTGTGGAGGATCAAGGATGCCTCATTGGAGTGCCCATGCCCACCTTCGACTGCATTGTC CTCCACTTACCCACATGAATGTCACAAGGCAACGACGACTGCCATGGAGAGAATCCCT TGCCCTCATGGCAGGTGACGCGCACCTATTCCCCTCGTCCCGACTGCATGACTCCC TTACAGCCACATTATCCCCTCCCCCATACCGCTCCCCTCCCGACTTCTTTCCCTCC TTCCATTTTACCAGCCCTCTTTTTTTCACTTCTATTCTAACCCCATCACTCTGTCC AACCTCTTCTCCTCGCATACTTACCCCGCCCCCCCCCCCCCTCTGATTTTCATATT ACTTCCCTCTCCCTTCCCCTTTGAACTCCACCCCTCACCTCCCCCATCCCCCTC CCCCCCACCCCCCTACTTGCCTTTATCACACCCCTCTCCCTTTCTCTTA ATTATTCAATCCCCCTCTTCTCCTCCTCCTCCTCGACACTCTCCCTCTCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_002372
Insert Size:	4260 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).
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:	NM_002372.2 , NP_002363.2
RefSeq Size:	5128 bp
RefSeq ORF:	3435 bp
Locus ID:	4124
UniProt ID:	Q16706
Cytogenetics:	5q21.3
Domains:	Glyco_hydro_38
Protein Families:	Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: This gene encodes a glycosyl hydrolase that localizes to the Golgi and catalyzes the final hydrolytic step in the asparagine-linked oligosaccharide (N-glycan) maturation pathway. Mutations in the mouse homolog of this gene have been shown to cause a systemic autoimmune disease similar to human systemic lupus erythematosus. [provided by RefSeq, Dec 2013]