

Product datasheet for **RC213002**

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

Product data:

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



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ORF Nucleotide
Sequence:

>RC213002 representing NM_005907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCCGTGGGGGCTGTTGCCCTCTTCAGCAGCCCCGCGGGCGGCTCTGGCGGGGGCTCGGCG
 GCGGCGGTGGCAGGAAGGGTCTGGGCCCGCCGCTCCGCTGACGGAGAAGTTCGTGCTGCTGCTGGT
 ATTCAGCGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCTGCCAGACTCTCCAAGCTGCTCAGC
 GGGTCTGTTCCACTCCAGCCCCGCTTCGAGCCGCGCCGACCACAAGCCGGGGCCGGGGCGCGCG
 CCGAGGACGCGGCCGAGGGGCGAGCCCGCGCCGAGGAGGGGGCACCCGGGGACCCGGAGGCCCT
 GGAGGACAACCTGGCCAGGATCCGCGAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAG
 AAGCTGCCGAGGAGATCCAAGAGACATCTACTGGAGAAGAAGGTGGCCAGGACCAGCTGCGTG
 ACAAGGCGCGTTCAGAGGCTGCCCGGTGGACTTCGTGCCCAATCGGGTGGAGAGCCGGGAGCC
 CGCCGACCGCCATCCGCGAGAAAAGGCAAAGATCAAAGAGATGATGAAACATGCTTGAATAATTAT
 AAAGGTTATGCCTGGGGATTAATGAACTCAAACCTATATCAAAAGGAGGCCATCAAGCAGTTTGTGTTG
 GTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTTTTATTATGGAATGAAACATGAATT
 TGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTAATGTGAATGCTGAAATTTCTGCTTTGAA
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 AAGCAGTGAACCTGGGGTAAAATTGCTACCTGCATTTACATACTCCCTCTGGAATACCTTGGGCATTGCT
 GAATATGAAAAGTGGTATTGGAAGGAACGGCCCTGGGCTCTGGAGGCAGCAGTATTCTGGCAGAAATTT
 GGAACCTGCATTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCATCTTTGCTGAAAAGGTAA
 TGAATATTCGAACAGTACTGAACAACTGGAAAAACCAAGGCCTTTATCCTAACTATCTGAATCCCAG
 TAGTGGACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGGAGACAGCTTCTATGATATTTGCTG
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 GGAGCACAAAGATGGGCCACCTGACCTGCTTCGCGGGGGCATGTTTCGCACTCGGGGCTGATGCAGCTCCC
 GAAGGCATGGCCCAACTACCTTGAACCTCGGGGCTGAAATTGCCGACTTGTGCATGAATCATATAATC
 GAACATTTATGAACTGGGACCAGAAGCTTTCAGATTTGATGGTGGTGTGAAGCCATCGCTACAAGACA
 AAATGAAAAATACTACATCTTACGCCAGAAGTTATGGAGACTTACATGTATATGTGGAGACTGACTCAT
 GATCCAAAGTACAGGAAATGGGCTGGGAAGCCGTAGAGGCTTGGAAAACCATTCAGAGTGAATGGAG
 GCTATTACGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATGATGATGTGCAGCAGAGTTTCTCCT
 GGCAGAGACATTGAAATATTTGTACCTAATATTTCTGACGACGATCTTCTTCCACTGGAGCATTGGATC
 TTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAGGAAGTTGAAATCAGAGAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213002 representing NM_005907
 Red=Cloning site Green=Tags(s)

MPVGGLLPLFSSPAGGVLGGGLGGGGGRKGSGPAALRLTEKFLVLLVFSAFITLFCGAIFFLPDSSKLLS
 GVLFHSSPALQPAADHKP GPGARAEDAAEGRARRREEGAPGDPEAALEDNLRARENHERALREKQTLQ
 KLP E EIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVPPIGVESREPADAIREKRAKIKEMMKHAWNNY
 KGYAWGLNELKPI SKGGHSSSLFGNIKGATIVDALDTL FIMEMKHEFEAKSWVEENLDFNVNAEISVFE
 VNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLNMKSGIGRNWPWASGGSSILAEF
 GTLHLEFMHLSHLSGNPIFA EKVMNIRTVLNKLEKQGLYPNYLNPSSGQWQHHVSVGGLGDSFYEYLL
 KAWLMSDKTDLEAKMYF DAVQAIETHLIRKSSSGLTYIAEWKGGLEHKMGHLTCFAGGMFALGADAAP
 EGMAQHYLELGA EIARTCHESYNRFTMKGPEAFRFDGGVEAIATRQNEKYYILRPEVMETMYMWRLTH
 DPKYRKWAVEAVEALENHCVRVNGGYSGLRDVYLLHESYDDVQSFFLAETLKYL YLIFSDDDLPLEHWI
 FNSEAHLLPILPKDKKEVEIREE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005907

ORF Size: 1959 bp

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.

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_005907.4](#)

RefSeq Size: 4139 bp

RefSeq ORF: 1962 bp

Locus ID: 4121

UniProt ID: [P33908](#)

Cytogenetics: 6q22.31

Domains: Glyco_hydro_47

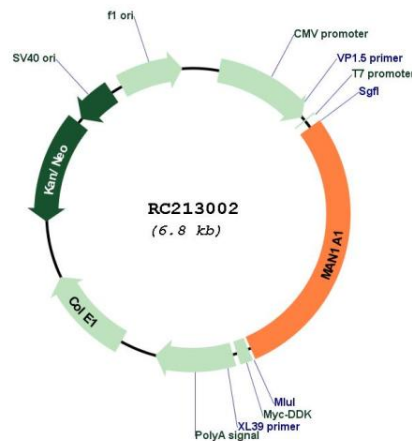
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 72.8 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]

Product images:



Circular map for RC213002