

Product datasheet for **RG213002**

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:	TurboGFP
Symbol:	alpha 1,2 Mannosidase IA
Synonyms:	HUMM3; HUMM9; MAN9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG213002 representing NM_005907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGTGGGGGCTGTTGCCGCTCTCAGCAGCCCCGCGGGCGGCTCTGGCGGGGGCTCGGCG
 GCGGCGGTGGCAGGAAGGGTTCGGGCCCGCCGCTCCGCTGACGGAGAAGTTCGTGCTGCTGCTGGT
 ATTCAGCGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCTGCCAGACTCTCCAAGCTGCTCAGC
 GGGTCTGTTCCACTCCAGCCCCGCTTCGAGCCGCGCCGACCACAAGCCGGGGCCGGGCGCGCG
 CCGAGGACCGGGCCGAGGGGCGAGCCCGCGCCGAGGAGGGGGCACCCGGGGACCCGAGGCCGCCCT
 GGAGGACAACCTGGCCAGGATCCGCGAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCTGCAG
 AAGCTGCCCGAGGAGATCCAAGAGACATCCTACTGGAGAAGAAGAAGGTGGCCAGGACAGCTGCGTG
 ACAAGGCGCGTTCAGAGGCTGCCCGGTGGACTTCGTGCCCAATCGGGTGGAGACCGGGAGCC
 CGCCGACCGCCATCCGCGAGAAAAGGGCAAAGATCAAAGAGATGATGAAACATGCTTGAATAATTAT
 AAAGTTATGCCTGGGGATTAATGAACCTAAACCTATATCAAAAGGAGGCCATTCAAGCAGTTTGTGTTG
 GTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTTTTATTATGGAATGAAACATGAATT
 TGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTAATGTGAATGCTGAAATTTCTGCTTTGAA
 GTAATAATACGCTTTGTTGGTGGACTACTCTCAGCCTACTATCTGTCTGGAGAAGAGATTTTTCGAAAGA
 AAGCAGTGAACCTGGGGTAAAATTGCTACCTGCATTTACATACTCCCTCTGGAATACCTTGGGCATTGCT
 GAATATGAAAAGTGGTATTGGAAGGAACGGCCCTGGGCTCTGGAGGCAGCAGTATTCTGGCAGAATTT
 GGAACCTGCATTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCATCTTTGCTGAAAAGGTAA
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 GAACATTTATGAACTGGGACCAGAAGCTTTCAGATTTGATGGTGGTGTGAAGCCATCGCTACAAGACA
 AAATGAAAATACTACATCTTACGCCAGAAGTTATGGAGACTTACATGTATATGTGGAGACTGACTCAT
 GATCCAAAGTACAGGAAATGGGCTGGGAAGCCGTAGAGGCTTGAAAACCATTCAGAGTGAATGGAG
 GCTATTCAGGCCTAAGGATGTTTACCTTCTTCATGAGAGTTATGATGATGTGCAGCAGAGTTTCTTCT
 GGAGAGACATTGAAATATTTGTACCTAATATTTCTGACGACGATCTTCTTCCACTGGAGCATTGGATC
 TTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAGGAAGTTGAAATCAGAGAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213002 representing NM_005907
 Red=Cloning site Green=Tags(s)

MPVGGLLPLFSSPAGGVLGGGLGGGGRKGSPPAALRLTEKFLVLLVFSAFITLFCGAIFFLPDSSKLLS
 GVLFHSSPALQPAADHKPGPGARAEDAAGRARRREGAPGDPEAALEDNLARIRENHERALREKETLQ
 KLPEEIQRDILLEKKAQDQLRDKAPFRGLPPVDFVPPIGVESREPADAIREKRAKIKEMMKHAWNNY
 KGYAWGLNELKPIKGGHSSSLFGNIKATIVDALDTLFIEMMKHEFEEAKSWVEENLDFNVNAEISVFE
 VNIRFVGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLNMKSGIGRNWPWASGGSSILA
 EFGTLHLEFMHLSHLSGNPIFAEKVMNIRTVLNKLEKPKQGLYPNYLNPSSGQWQHVVSVGGGLGDSFYEYLL
 KAWLMSDKTDLEAKMYFQAVQAIETHLIRKSSGLTYIAEWKGLLEHKMGHLTCFAGGMFALGADAAP
 EGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEKYYILRPEVMETMYMWRLLTH
 DPKYRKWAVEAVEALENHCVRVNGGYSGLRDVYLLHESYDDVQSQSFFLAETLKYLILFSDDDLPLEHWI
 FNSEAHLLPILPKDKKEVEIREE

TRTRPLE - GFP Tag - V

Cytogenetics: 6q22.31

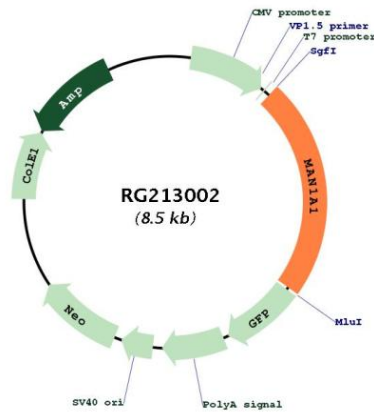
Domains: Glyco_hydro_47

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

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 RG213002