

Product datasheet for **RG239013**

MAN1C1 (NM_001289010) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN1C1 (NM_001289010) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAN1C1
Synonyms:	HMIC; MAN1A3; MAN1C; pp6318
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239013 representing NM_001289010.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCATGAGGAAAGTGCCCGGCTTCGTCCCGCCTCCCGTGGGGGCTGCGGCTGCCGAGAAGTTC
TCTTCTCTCTTCTCTCGGGCTGGTCAACCCTGTGCTTCGGGGCCCTTCTCTGCTGCCCCACTCC
TCTCGCCTCAAGCGCTTCTCTGGCCCCCGGACCCAGCAGCCTGGTCTGGAAGTGGTGGCTGAAATC
GCCGGCCATGCCCGGCCGCGAGCAGGAGCGCTCCCAACCCGGCCCCGCGCGCGGCCCGCCGGC
GAGGATGACCCAGCAGCTGGGCCAGTCCCGCGCAGGAAAGGGGGGCTGCGGCGCACCCGCCCACT
GGACCCCGCAGGAGGCCACGGCGGCCGGGCAATAGCATCCCGCCTCCAGGCCCGGGACGAGGGC
GTCCCTTCCGCTTGTACTTCAACGCATTCCGGAGCCGTCTCGCCACCCGGTCTGGAACGAGGGCC
GATGAGAGTCAGGAGCCCAGAGCAAGTGCAGGCCAGCGGGAGAAAATCAAGGAGATGATGCAGTTT
GCTTGGCAGAGCTATAAGCGTTATGCAATGGGAAAAACGAACCTCCGTCCTAACAAGATGGCTAC
GAGGGTAACATGTTCCGAGGCCAGCGGGCAACAGTCAATTGACTCCCTCGATACCTCTACCTCATG
GAGCTGAAGGAGGAGTCCAGGAGGCCAAGGCCTGGGTGGGAGAGAGCTCCACCTGAACGTGAGCGGA
GAAGCATCCTTGTGGTGAACATCCGCTACATCGGGGACTCCTCTCAGCCTTCTACCTGACAGGA
GAAGAGGTGTTCCGAATAAAGGCCATCAGGCTGGGAGAGAAGCTCCTGCCGGCTTCAACACCCCAAG
GGAATCCCAAAGGGCGTGGTGGCTTCAAAGTGGGAAGTGGGGCTGGCCACAGCCGCGCAGCAGCAGC
ATCTTGGCGGAGTTTGGATCCCTGCACTTGAATTCTTACACCTCACTGAACTCTCTGGCAACAGGTC
TTCGCTGAAAAGTCCAGAACATCCGCAAGTCTCAGGAAGTCGAAAAGCCCTTGGCCTTACCCCA
AACTTCTCAGCCAGTGAAGTGGGAAGTGGTGAACACCATGTCTCAGTTGGAGACTCGGGGACAGT
TTTTATGAATTTGATCAAATCCTGGTTGATGTGCGGCAAGACAGATATGGAGGCTAAAAATATGTAC
TAGGAAGCCTGGAGCCGATAGAGACTACTTGTCTGAATGTCTCTCCCGGGGGCTGACCTACATTGCC
GAGTGGCGAGGGGGATTCTGGACCACAAGATGGGGCACCTGGCCTGTTTCTCCGGGGCATGATCGCC
CTTGGCGCCGAGGATGCCAAGGAAGAAAAGAGGGCCCACTACCGAGAGCTCGCAGCCAGATCACAAG
ACGTGTACAGGTCATACGCCGCTCAGACACCAAACTTGGCCTGAGGCCTTCTGGTTAACTCCGGC
AGAGAGGCCGTGGCCACCCAGCTGAGCGAGAGCTACTACATCCTCCGGCCAGAGGTGGTGGAGAGCTAC
ATGTACCTGTGGCAGACAGACCCACAACCCATCTACAGGGAGTGGGGCTGGGAGGTGGTGTGCCCTTG
GAGAAATACTGTCGACAGAAGCCGTTTCTCTGGATCCAAGACGTGTACAGTAGCACCCCAACCA
GACAACAAGCAGCAGAGCTTCTTCTAGCGGAGACTAAAGATT
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239013
 Blue=ORF Red=Cloning site Green=Tag(s)

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MLMRKVPGFVPASPWGLRPLPQKFLFLLFSLVTLFCFALFLLPHSSRLKRLFLAPRTQQPGLVEVAEI
AGHAPAREQEPPNPAPAAPAGEDDPSSWASPRRRKGLRRTRPTGPREEATAARGNSIPASRPGDEG
VPFRFDNFRSRLRHPVLGTRADESQEPQSQVRAQREKIKEMMQFAWQSYKRYAMGKNELRPLTKDGY
EGNMFGLSGATVIDSLDTLYLMELKEEFQAKAWVGSFHLNVSGEASLFEVNIIRYIGLLSAFYLTG
EEVFRIKAIIRLGEKLLPAFNPTGIPKGVVSKSGNWGWATAGSSSILAEFGLHLEFLHLTELSGNQV
FAEKVRNIRKVLRIKPFGLYPNFLSPVSGNWVQHVSVGGGLGDSFYEYLKSWLMSGKTDMEAKNMY
YEALAEIETYLLNVSPGLTYIAEWRGGILDHMKMHLACFSGGMIALGAEDAKEEKRAHYRELAQITK
TCHESYARSDTKLGPEAFWFNSGREAVATQLSESYIILRPEVVESMYLWRQTHNPIYREWGWVVLAL
EKYCRTEAGFSGIQDVYSSTPNHDNKQSQSFLLAETLKI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

SgfI-MluI

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).
RefSeq:	NM_001289010.1 , NP_001275939.1
RefSeq Size:	4476 bp
RefSeq ORF:	1773 bp
Locus ID:	57134
UniProt ID:	Q9NR34
Cytogenetics:	1p36.11
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	66.7 kDa
Gene Summary:	Involved in the maturation of Asn-linked oligosaccharides. Trim alpha-1,2-linked mannose residues from Man(9)GlcNAc(2) to produce first Man(8)GlcNAc(2) then Man(6)GlcNAc and a small amount of Man(5)GlcNAc.[UniProtKB/Swiss-Prot Function]