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Product datasheet for RG235120

MAN2C1 (NM_001256495) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MAN2C1 (NM_001256495) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MAN2C1
Synonyms:	MAN6A8; MANA; MANA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG235120 representing NM_001256495
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCTGCGCCGGCCTTGAAGCACTGGCGCACCACGCTGGAGCGGGTGGAGAAGTTCGTGTCGCCGC
TCTACTTTACCGACTGTAACCTCCGCGGCAGGCTTTTTGGGGCCAGCTGCCCTGTGGCTGTGCTCTCCAG
CTTCCTGACGCCGGAGAGACTTCCCTACCAGGAGGCAGTCCAGCGGGACTTCCGCCCCGCGCAGGTCGGC
GACAGCTTCGGACCCACATGGTGGACCTGCTGGTTCCGGGTGGAGCTGACCATCCCAGAGGCATGGGTGG
GCCAGGAAGTTCACCTTTGCTGGGAAAGTGATGGAGAAGGTCTGGTGTGGCGTGATGGAGAACCTGTCCA
GGGTTTAACCAAAGAGGGTGAGAAGACCAGCTATGTCCTGACTGACAGGCTGGGGGAAAGAGACCCCCGA
AGCCTCACTCTCTATGTGGAAGTAGCCTGCAATGGGCTCCTGGGGGCCGGGAAGGGAAGCATGATTGCAG
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CCCCACCCAGACCATGCTGGACCGCCTGAAGCGCCTGAGCAATACGGATGGGCTGCCCAGGGTGCAGCTA

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TCTTCTCCAAGACAGCTCTTCTCAGCACTGGAGAGTGACTCAGAGCAGCTGTGCACGTGGGTTGGGGAGC
TCTTCTTGGAGCTGCACAATGGCACATACACCACCCATGCCCAGATCAAGAAGGGGAACCGGGAATGTGA
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GAGCGACCAGACCCTGCTGGCCACTTGACCCTTCGGGACAACCGCCTGAAGCTCACCTTTTCTCCCTTCC
AAGTGCTGTCCCTGTTGCTCGTGCTTCAGCCTCCGCCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235120 representing NM_001256495
Red=Cloning site Green=Tags(s)

MAAAPALKHWRTTLERVEKFVSPLYFTDCNLRGRLFGASCPVAVLSSFLTPERLPYQEAVQRDFRPAQVG
DSFGPTWWTCWFRVELTIPEAWVGQEVHLCWESDGEGLVWRDGEPVQGLTKEGEKTSYVLTDRLGERDPR
SLTLYVEVACNGLLGAGKGSMIAAPDPEKMFQLSRAELAVFHRDVHMLLVDLELLLGIAKGLGKDNQRSF
QALYTANQMVNVCDPAQPETFPVAQALASRFFGQHGGESQHTIHATGHCHIDTAWLWPFKETVRKCARSW
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SSPRQLFSALESDSEQLCTWVGELFLELHNGTYTTHAQIKKGNRECERILHDVELLSSLALARSAQFLYP
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AWFLLQISPNSRLSQEVVLDVGCPYVRFHTEVHWHEAHKFLKVEFPARVRSSQATYEIQFGHLQRPTHYN
TSWDWARFEVWAHRWMDLSEHGFGLALLNDCKYGASVRGSILSLSLLRAPKAPDATADTGRHEFTYALMP
HKAPSPAPATSWSAFSVSSPAVVLETVKQAESSPQRRSLVLRLYEAHGSHVDCWLHLSLPVQEAILCDLL
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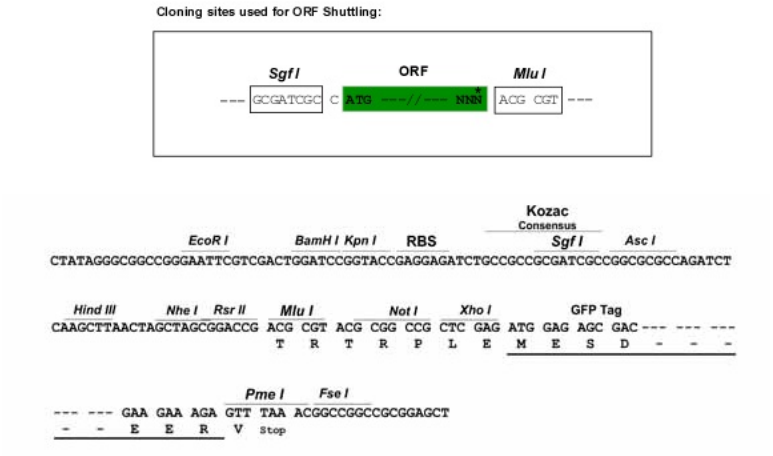
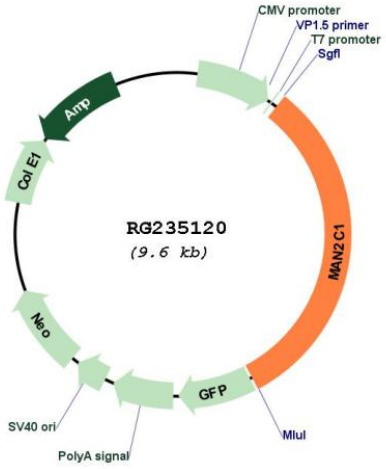
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256495

ORF Size: 3051 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_001256495.1, NP_001243424.1
RefSeq Size:	3222 bp
RefSeq ORF:	3054 bp
Locus ID:	4123
UniProt ID:	Q9NTJ4
Cytogenetics:	15q24.2
Protein Families:	Druggable Genome
Protein Pathways:	Other glycan degradation
Gene Summary:	Cleaves alpha 1,2-, alpha 1,3-, and alpha 1,6-linked mannose residues from glycoproteins. Involved in the degradation of free oligosaccharides in the cytoplasm.[UniProtKB/Swiss-Prot Function]