

Product datasheet for MR217804

Man2a1 (NM_008549) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man2a1 (NM_008549) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Man2a1
Synonyms:	Mana-2; Mana2; Map-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217804 representing NM_008549 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTTAAGTCGCCAGTTCACCGTGTGGCAGCGGATCTTCTGCGTCGTAATCTTCTCACTCTACC
TGATGCTGGACAGGGGTCACTTGGACTACCCTCGGGGCCCGCCAGGAGGGCTCCTTCCGAGGGCCA
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AATATCAGAGACTCAGTCATCAACCTGAGCGAGTCTGTGGAGGACGGCCCGGGGGTACCAGGCAACG
CCAGCCAAGGCTCCATCCACCTCACTCGCCACAGTTGGCCCTGCAGGCTGACCCAGAGACTGTTTGT
TGCTTACAGAGTGGGAGTCAGCCCGGGATGTGCAGATTTGGATGTTACGATCTGATTCCTTTTGT
AATCCAGATGGTGGAGTTTGAAGCAAGGATTTGACATTAAGTATGAAGCGGATGAGTGGGACCATGAGC
CCCTGCAAGTGTGTGGTGCCTCACTCCATAATGACCCAGGTTGGTTGAAGACTTTCAATGACTACTT
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GACTTCTTCACGTACGCTGACAGAGACGACCATTACTGGAGTGGCTACTTCACGTCCAGACCTTTCTACA
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR217804 representing NM_008549
 Red=Cloning site Green=Tags(s)

MKLSRQFTVFGSAIFCVVIFSLYLMLDRGHLDPYRGRQEGSFPQGQLSILQEKIDHLERLLAENNEIIS
 NIRDSVINLSESVEDGPRGSPGNASQGSIHLHSPQLALQADPRDCLFASQSGSQPRDVMQLDYYDLIPFD
 NPDGGVWKQGFDIKYEADEWDHEPLQVFVPHSHNDPGWLKTFNDYFRDKTQYIFNNMVLKLEDSSRKF
 MWSEISYLAKWWDIIDIPKKEAVKSLQNGQLEIVTGGWVMPDEATPHYFALIDQLIEGHQWLEKNLGVK
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 NLGLFQHDAITGTAKDWVVVDYGRFLQSLNSLEKIIGDSAFLLILKDKKLYQSDPSKAFLEMDTKQSS
 QDSL PQKII IQLSAQEPRYL VVYNPFQERHSVVSIRVNSATVKVLSDSGKPVQVSAVWDMRTISQA
 AYEVSFLAHIPPLGLKVFKILESQSSSSHLADYVLYNNDGLAENGFHVKNMVDAGDAIT IENPFLAIWF
 DRSGLMEKVRKEDSRQHELKVFQFLWYGT TNKRDKSGAYLFLPDGQGPVYSLRPPFVRVTRGRIYSDVT
 CFLEHVTHKVRLYNIQGIQEGSMEVSNIVNIRNVHNREIVMRISKINNQRYYTDLNGYIQPRRTMSK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9011_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

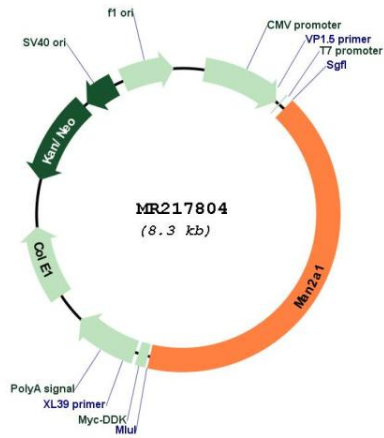


ACCN: NM_008549

ORF Size: 3450 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:	<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_008549.2 , NP_032575.2
RefSeq Size:	6091 bp
RefSeq ORF:	3453 bp
Locus ID:	17158
UniProt ID:	P27046
Cytogenetics:	17 E1.1
MW:	132.1 kDa
Gene Summary:	Catalyzes the first committed step in the biosynthesis of complex N-glycans. It controls conversion of high mannose to complex N-glycans; the final hydrolytic step in the N-glycan maturation pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217804