

Product datasheet for **RR205979**

Man1a1 (NM_001033656) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Man1a1 (NM_001033656) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Man1a1
Synonyms:	Aa2-166; Man1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205979 representing NM_001033656
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGTGGGGGCTGTTGCCACTCTTCAGTAGCCCTGGGGCGGAGGCCTGGGCGGTGGCCTGGGCG
 GGGTCTTGGCGCGGGAGGAAGGGTCTGGCCCCGCGCTTCCGCCTACTGAGAAGTTCGTGCTGCT
 GCTGGTGTTCAGCGCCTTCATCACGCTCTGCTCGGGCAATCTTCTTCCTGCTGACTCCTCCAAGCTG
 CTGAGCGGGTCTGTTCCACTCCAACCCTGCCTTGACGCCACCGCGGAGCACAAGCCGGGCTCGGGG
 CGCGTGCCGAGGATGCCGCCAAGGGAGAGTCCGGCACCGCGAGGAAGGCGTGCCTGGGACCTGGAGC
 TGGACTGGAGGATAACTTAGCCAGAATCCGTGAAAACCACGAGAGGGCTCTCAGGGAAGCCAAGGAAACC
 CTGCAGAAAGTCCAGAGGAGATCCAAAGAGACATTCTGCTGGAGAAGGAGAAGTGGCCAGGACCAGC
 TGCGTGACAAGGATCTGTTGGGGCTTGCCAAAGGTGGACTTCTGCCCCCATCGGGGTAGAGAACC
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 AATTATAAACGCTATGCGTGGGGCTTGAACGAACCGATAATCAAAGAAGGCCATTCAAAGCAGTT
 TGTTTGGCAACATCAAAGGAGCTACAATAGTAGATGCCCTAGATACCCCTTTTCATTATGGGTATGAAGC
 TGAATTTCAAGAAGCTAAATCATGGATTAATAACTTAGATTTAATGTGAATGCTGAAGTTTCTGTT
 TTTGAAGTAAACATACGTTTTCGTTGGTGGATTGCTGTCAGCCTACTATTTGTCCGGAGAGGAGATATTT
 GAAAGAAAGCAGTGGAACTTGGGGTAAAATTGCTACCTGCATTTTCATAGTCCCTCTGGAATACCTTGGGC
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 AGGTAATGAATATTCGAACAGTGTGAACAAGCTGGACAACAGGAGGCTTTATCCTAACTACCTGAA
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 CCTCTGGAGCACAAGATGGGCCACCTGACGTGCTTTCAGGGGGGATGTTTGCACCTGGGGCCGACGGA
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 GAGGCAAATGAGAAGTATTACATTCTACGGCCAGAGTTATCGAGACATACATGTACATGTGGCGTCTG
 ACCCATGATCCCAAGTACAGGACCTGGGCTGGGAAGCCGTAGAGGCCCTAGAAAGCCACTGTAGAGTGA
 ACGGAGGCTACTCAGGCCTACGGGATGTTTACATTGCCCATGAGAGTTATGACGACGTCAGCAAAGCTT
 CTTCTGGCAGAGACTGAAGTATCTGTACTTGTATTTTCCGACGATGACCTTCTTCCACTGGAACAC
 TGGATCTTCAACACCGAGGCTCATCTTCCCTATACTCCGTGACCAGAAGAAAGATTGATGTCCAGG
 AGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205979 representing NM_001033656
 Red=Cloning site Green=Tags(s)

MPVGGLLPLFSSPGGGGLGGGLGGGLGGGRKGS GPAAFRLTEKFVLLLVFSAFITLCFGAIFFLPDSSKL
 LSGVL FHSNPALQPPAEHKPGLGARAEDAAEGRVRHREEVPGDPGAGLEDNLARIRENHERALREAKET
 LQKLPEEIQRDILLEKEKVAQDQLRDKDLFGGLPKVDFLPPIGVENREPADATIREKRSKIKEMMAHAWN
 NYKRYAWGLNELKPI SKEGHSSSLFGNIKGATIVDALDTL FIMGKTEFQEAKSWIKKYLDFNVNAEVSV
 FEVNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHSPSGIPWALLNMKSGIGRNWPWASGGSSILA
 EFGTLHLEF MHLAHL SGNPVFAEKVMNIRTVLNKLDKPEGLYPNYLNPSSGQWGQHHVSVGGLGDSFYEY
 LLKAWLMSDKTDLEAKMYFDAVQAIETHLIRKSSGLTYIAEWKGGLEHKMGHLTCFAGGMFALGADG
 APEARAQHYLELGAEIARTCHESYNRTYVKLGPEAFRFDGGVEAIATRQNEKYYILRPEIETMYMWRRL
 THDPKYRTWAVEAVEALESHCRVNGGYSGLRDVYIAHESYDDVQSSFFLAETLKYLILFSDDLLPLEH
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

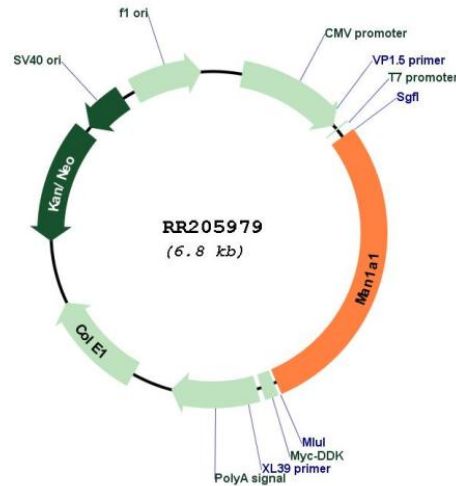
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001033656

ORF Size: 1965 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_001033656.1](#), [NP_001028828.1](#)

RefSeq Size: 3857 bp
RefSeq ORF: 1968 bp
Locus ID: 294410
Cytogenetics: 20q11
MW: 73.1 kDa