

Product datasheet for **RR202634**

Matn4 (NM_001106539) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matn4 (NM_001106539) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matn4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202634 representing NM_001106539
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGGGCCCTTTTGTGCTGCCACTGCCTCTGTTGCTGCTTTTCTTGCACTCCTGGAAACCCAGCTAC
 AGCCTGCAGGTCCTAGGTGCTATACTGGGCCCTGGATTTGGTGTTCATGATTGATGATTTCCCGCAGCGT
 GCGCCCTTCGAGTTCGAGACCATGAGGCACTTCTTGTGGCCCTCCTCCACAGCCTGGACGTGGGTCTG
 AACGCCACGCGCTTGGTGTGATCCAGTATTCTAGCCAAGTGCAGAGCGTCTTCCCTGGGCGCTTCT
 CGAACCAGGAGACATGGAACGCGCCATCCGCGCGGTGGTCCGCTGGCTCAGGGACCATGACCGGCT
 GGCGATCCAGTATGCCATGAACGTGGCCTTCCAGCGAGGCCGAAGGCGCGCCCATCGGAAGAGCGAGTG
 CCGCGCTCTGGTTCATCGTGACGGACGGGCGACCTCAAGACCGAGTGGCCGAAGTGGCCGCTCAAGCGC
 GCGCCCGGTATTGAGATCTATGCAGTAGGGTGCAGCGAGCCACGTGGGCTCTCTGCGGCCATGGC
 TTCACCACGCTGGACCAGCATGCTTCTTGGTGGAGTCTTCGATCTCATCCAGGAGTTTGGCCTGCAG
 TTCCAGGGCCGGCTGTGTGGGAAGGACCTGTGTGCTGAGTTGGAGCATGGCTGCCAACACCTGTGTGTCA
 ACGCCCCAGGAACATTCTACTGCGCTGCAACTCTGGCTACAAGCTAGCGCCAGATAACAGGAATTGTTT
 GGCCATAGATCTCTGTGCTGAAGGAACCATGGTTGTGAACACCTCTGTGTGAGTTCTGTGGACTCTTAT
 TTCTGTGCTTGTGAGCTGGCTTTCAGCTCCAGCAGGACCAGAGAAGCTGCAGGGCCATTGACTACTGCA
 GCTTTGGAACCATAGTTGCCAGCATGAGTGTGTGAGCACTTTAGTGGGGCCACAGTGTGCTGCAGAGA
 AGGCCACGACCTGCTGCCGATGGGAGAAGCTGTGAGTGCAGGACTTCTGCAATGGCGTGGATCATGGC
 TGTGAGTCCAGTGTGTGAGTGAAGGCTTTCTTCCACTGCCTGTGCCCTGAAGGGAGGCGACTCAGG
 CTGATGGCAAGAGCTGTGACCGGTGCGGGAGGGCCACGTGGATCTTGTCTCCTGGTGGATGCCAA
 GAGTGTGCGTCCACAGAACTTCGAGCTGGTGAAGCGCTTCGTGAACAGATTGTGGATTTCTCGACGTG
 TCCCTGAGGGCACACGTGTTGGCTGGTGCAGTTCTCTAGCCGGTGGCAGTGTGCTTCCCTCTGGCC
 GCTATGGCACCGCGCTGAGGTGAAGCAGGCACTTTTGGCCGTCGAGTACATGGAGCGCGCACCATGAC
 AGGGCTGGCACTGCGTCACATGGTGGAGCACAGTTTCTCAGAGTGCAGGGCGCGCGCCTCGAGACCTC
 AACGTGCCTCGTGGGATTGGTGTCTACTGACGGCCGCTCTCAGGATGACATTTCTGTGTGGCAGCTC
 GTGCCAAAGGAAGGTATCGTCATGTATGCTGTGGCGTGGCAAGGCTGTGGAGGAAGAGCTGCGCGA
 GATCGCATCCGAACCATCGAACTGCACGTGCTCTACTCTCCGGACTTTAACACCATGACACATCTGCTG
 GAGAATCTCAAAGCAGCATTTGCCAGAGGAGGCATCAGCGGGGACAGAGCTTCGGAGTCCCTGCG
 AATGCGAAAGCCTCGTGGAGTTCAGGGACGCACGCTGGGGCGCTCGAGAGCCTGACGCGAAGCTGGC
 CCGGCTGACAGAGCCCTGGAGGAGCTGGAGAATCAGCTGGCTAGCCGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202634 representing NM_001106539
 Red=Cloning site Green=Tags(s)

MKGPFCWPLPLLLLFLQSWETQLQPAGPRCYTGPLDLVFMIDSSRSVRPFEFETMRQFLVGLLHSLDVGL
 NATRVGVIQYSSQVQSVFPLGAFSNREDMERAIRAVVPLAQGTMTGLAIQYAMNVAFAEAGARPSEERV
 PRVLVIVTDGRPQDRVAEVAARARGIEIYAVGVQRADVGSRLRAMASPLDQHVFLVESFDLIQEFGLQ
 FQGRLCGKDLCAELEHGQHLNVNAPGTFYACNSGYKLPDNRNCLAIDLCAETHGCEHLVSSVDSY
 FCRCRAGFALQQDQRSCRAIDYCSFGNHSCQHECVSTLVGPQCRREGHDLLPDGRSCQVRDFCNGVDHG
 CEFQCVSEGLSFHCLCPEGRRQLADGKSCDRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNQIVDFLDV
 SPEGTRVGLVQFSSRVRETFPLGRYGTAAEVKQAVLAVEYMERGTMTGLALRHMVEHSFSEVQGARPRDL
 NVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVKAVEEELREIASEPSELHVSYPDFNTMTHLL
 ENLKGSICPEEIGISAGTELRSPECEESLVEFQGRTLGALESLTQNLARLTERLEELNQLASRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

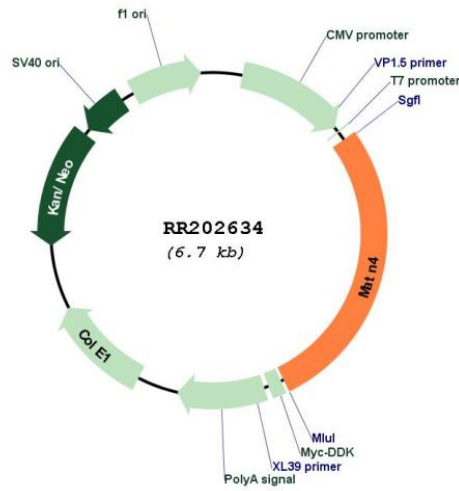
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001106539

ORF Size: 1872 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_001106539.1 , NP_001100009.1
RefSeq Size:	2292 bp
RefSeq ORF:	1875 bp
Locus ID:	296358
Cytogenetics:	3q42
MW:	69 kDa