

Product datasheet for **MR230719**

Matn4 (NM_001252563) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matn4 (NM_001252563) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Matn4
Synonyms:	matrilin-4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230719 representing NM_001252563
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCCCTGCTGCTGCCACTCTCTCTGTTGCTGCTCTTCTGCAGTCCTGGAAACTCAGCTCC
 AGTCTGCAGGTCCTAGGTGCTATAATGGGCCCTGGATTTGGTGTTCATGATTGATAGCTCCCGCAGCGT
 GCGCCCTTCGAGTTTGAGACCATGAGGCACTTCTAGTGGGCCTCCTCCGCAGCCTGGACGTGGGTCTG
 AACGCCACGCGCTTGGGGTGATCCAGTATTCTAGTCAAGTGCAGAGCGTCTTCCCTGGGCGCCTTTT
 CGCGCCGCGAGGACATGGAACGAGCCATCCGCGCGGTGGTCCGCTGGCGCAGGGCACCATGACCGGGT
 GGCGATCCAGTACGCTATGAACGTGGCCTTACGCGAGGCCGAAGGCGCGGCCCATCGGAGGAGCGAGTG
 CCGCGCTCTGGTTCATCGTGACAGACGGGCGACCTCAAGACCGAGTGGCCGAAGTGGCCGCTCAGGCGC
 GCGCCCGCGCATTGAGATCTATGCGGTAGGGTACAGCGAGCTGACGTGGGCTCTTTCGACCATGGC
 TTCGCCGCGCTGGATCAGCATGTCTTCTAGTGGAGTCTTCGATCTCATCCAGGAGTTTGGCCTGCAG
 TTCCAGGGCCGCCTGTGCGGGAAGGACCTGTGTGCTGAGTTGGTTCATGGCTGCCAACACCTGTGTGTCA
 ACGCCCCAGGAACATTCTACTGCGCTGCAACTCTGGCTACAAGCTAGCACCAGATAACAAGAATTGTTT
 GGCTTGGATCTCTGCGCTGAAGGAACCATGGCTGTGAACACCTCTGTGTCAACTCCGTGGACTCGTAT
 TTCTGTCGTTGCCGAGCTGGCTTTCGCTCCAGCAGGACCAGAGGAGCTGCAGAGCCATTGACTACTGCA
 GCTTTGGAACCACAGCTGCCAGCATGAGTGTGTGAGCACTTTGGAGGGGCCACAGTGTCTGTCAGAGA
 GGGCCACGACCTGCTACCTGATGGGAGAAGCTGTGGGTGAGGACTTCTGCAATGATGTGGACCATGGC
 TGTGAGTCCAGTGTGTGAGTGGGCTCTTCTTCCACTGCCTGTGCCCTGAGGGGAGGCGACTCAGG
 CTGATGGCAAGAGCTGTGACCGGTGCGGGAGGGCCACGTGGATCTTGTCTCCTGGTGGATGGTTCCAA
 GAGCGTGCGCCACAGAACTTCGAGCTGGTGAAGCGCTTCGTGAACAGATTGTGGATTTCTTGACGTG
 TCTCCCGAGGGCACAGTGTGGCTGGTGCAGTTCTCCAGCGGGTGGCACCAGTTCCTCCCTGGGCC
 GCTATGGCACCAGCTGAGGTGAAGCAGGCACTTTGGCCGTGGAGTACATGGAGCGCGCACCATGAC
 AGGGCTGGCCCTGCGTACATGGTGGAGCACAGCTTCTCTGAGGCGCAGGGCGCGCGCCTCGGACCTC
 AACGTGCCTCGCTGGGCTTGGTGTCTACTGATGGCCGCTCTCAGGATGACATTTCAAGTGTGGCAGCTC
 GTGCCAAAGGAAGGCATCGTCATGTATGCCGTGGGCGTGGGTAAAGCTGTGGAGGAAGAGCTGCGTGA
 GATCGCATCGGAACCATCGGAGTGCACGTGTCCTATTCTCCGACTTTAGCACCATGACGCACCTGCTG
 GAGAATCTCAAAGCAGCATTTGCCAGAGGAGGCATTGGCGCGGGACAGAGCTTCGGAGTCCCTGCG
 AATGCGAAAGCCTCGTGGAGTTCAGGGCCGACGCTGGGGCGCTCGAGAGCCTGACGCAGAACCTGGC
 TCGGCTGACAGAGCCCTGGAGGAGCTGGAGAACCAGCTGGCTAGCCGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230719 representing NM_001252563
 Red=Cloning site Green=Tags(s)

MRGPCCWPLSLLLLFLQSWETQLQSAGPRCYNGPLDLVFMIDSSRSVRPFEFETMRQFLVGLLRSLDVLG
 NATRVGVIQYSSVQSVFPLGAFSRREDMERAIRAVVPLAQGTMTGLAIQYAMNVAFSEAGARPSEERV
 PRVLVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGLRMTASPLDQHVFLVESFDLIQEFGLQ
 FQGRLCGKDLCAELVHGCQHLVFNAPGTFYCACNSGYKLAPDNKNCLALDLCAEGTHGCEHLVNSVDSY
 FCRCRAGFALQQDQRSCRAIDYCSFGNHSCQHECVSTLEGPQCRCREGHDLDPDGRSCRVRDFCNDVDHG
 CEFQCVSEGLSFHCLCPEGRRLQADGKSCDRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNIQIVDFLDV
 SPEGTRVGLVQFSSRVRETFPLGRYGTAAEVKQAVLAVEYMERGTMTGLALRHMVEHSFSEAQGARPRDL
 NVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVGKAVEEELREIASEPSELHVSYSYSPDFSTMTHLL
 ENLKGSICPEEGIGAGTELRSPCECESLVEFQGRTLGALESLTQNLARLTERLEELENQLASRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_001252563.1 , NP_001239492.1
RefSeq Size:	2243 bp
RefSeq ORF:	1875 bp
Locus ID:	17183
UniProt ID:	O89029
Cytogenetics:	2 85.16 cM
MW:	69.5 kDa
Gene Summary:	Major component of the extracellular matrix of cartilage.[UniProtKB/Swiss-Prot Function]