

Product datasheet for **MG209522**

Matn4 (NM_013592) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matn4 (NM_013592) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Matn4
Synonyms:	matrilin-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209522 representing NM_013592
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGGCCCTGCTGCTGCCACTCTCTCTGTTGCTGCTCTTCTGCAGTCCTGGAAACTCAGCTCC
 AGTCTGCAGGTCCTAGGTGCTATAATGGGCCCTGGATTTGGTGTTCATGATTGATAGCTCCCGCAGCGT
 GCGCCCTTCGAGTTTGAGACCATGAGGCACTTCTAGTGGGCCTCCTCCGACGCTGGAGCTGGGTCTG
 AACGCCACGCGCTTGGGGTGATCCAGTATTCTAGTCAAGTGCAAAGCGTCTTCCCTGGGCGCTTTT
 CGCGCCGCGAGGACATGGAACGAGCCATCCGCGCGGTGGTCCGCTGGCGCAGGGCACCATGACCGGGT
 GGCGATCCAGTACGCTATGAACGTGGCCTTCAGCGAGGCCGAAGGCGCGGCCCATCGGAGGAGCGAGTG
 CCGCGCTCTTGGTCATCGTGACAGACGGGCGACCTCAAGACCGAGTGGCCGAAGTGGCCGCTCAGGCGC
 GCGCCCGCGCATTGAGATCTATGCGGTAGGGTACAGCGAGCTGACGTGGGCTCTTTCGACCATGGC
 TTCGCCCGCGCTGGATCAGCATGTCTTCTTAGTGGAGTCTTCGATCTCATCCAGGAGTTTGGCCTGCAG
 TTCCAGGGCCGCCTGTGCGGGAAGGACCTGTGTGCTGAGTTGGTTCATGGCTGCCAACACCTGTGTGTCA
 ACGCCCCAGGAACATTCTACTGCGCTGCAACTCTGGCTACAAGCTAGCACCAGATAACAAGAATTGTTT
 GGCTTGGATCTCTGCGCTGAAGGAACCATGGCTGTGAACACCTCTGTGTCAACTCCGTGGACTCGTAT
 TTCTGTGTTGCGGAGCTGGCTTTCGCTCCAGCAGGACCAGAGGAGCTGCAGAGCCATTGACTACTGCA
 GCTTTGAAACCACAGCTGCCAGCATGAGTGTGTGAGCACTTTGGCGGGCCACAGTGTCTGCTGCAGAGA
 GGGCCACGACCTGCTACCTGATGGGAGAAGCTGTGGGTGAGGACTTCTGCAATGGTGTGGACCATGGC
 TGTGAGTCCAGTGTGTGAGTGAAGGCTCTTCTTCCACTGCCTGTGCCCTGAGGGGAGGCGACTCAGG
 CTGATGGCAAGAGCTGTGACCGGTGCGGGAGGGCCACGTGGATCTTGTCTCCTGGTGGTGGTTCGAA
 GAGCGTGCGCCACAGAACTTCGAGCTGGTGAAGCGCTTCGTGAACCAGATTGTGGATTTCCTTGACGTG
 TCTCCCGAGGGCACAGTGTGGCTGGTGCAGTTCTCCAGCCGGTGGCGACCGAGTTCCTCCCTGGGCC
 GCTATGGCACCAGCTGAGGTGAAGCAGGCACTTTTGGCCGTGGAGTACATGGAGCGCGCACCATGAC
 AGGGCTGGCCCTGCGTCACATGGTGGAGCACAGCTTCTCTGAGGCGCAGGGCGCGCGCCTCGGACCTC
 AACGTGCCTCGCTGGGCTTGGTGTCTACTGATGGCCGCTCTCAGGATGACATTTAGTGTGGGAGCTC
 GTGCCAAAGGAAGGCATCGTCATGTATGCCGTGGGCGTGGTAAAGCTGTGGAGGAAGAGCTGCGTGA
 GATCGCATCGAACCATCGGAGTGCACGTGTCCTATTCTCCGGACTTTAGCACCATGACGCACCTGCTG
 GAGAATCTCAAAGCAGCATTGCCAGAGGAGGCATTGGCGGGGACAGAGCTTCGGAGTCCCTGCG
 AATGCGAAAGCCTCGTGGAGTTCAGGGCCGACGCTGGGGCGCTCGAGAGCCTGACGCAGAACCTGGC
 TCGGCTGACAGAGCGCTGGAGGAGCTGGAGAACCAGCTGGCTAGCCGAAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209522 representing NM_013592
 Red=Cloning site Green=Tags(s)

MRGPCCWPLSLLLLFLQSWETQLQSAGPRCYNPLDLVFMIDSSRSVRPFEFETMRQFLVGLLRSLDVGL
 NATRVGVIQYSSVQVSVFPLGAFSRREDMERAIRAVVPLAQGTMTGLAIQYAMNVAFAEAGARPSEERV
 PRVLVIVTDGRPQDRVAEVAQAARARGIEIYAVGVQRADVGLRMTASPLDQHVFLVESFDLIQEFGLQ
 FQGRLCGKDLCAELVHGCQHL CVNAPGTFYCACNSGYKLAPDNKNCLALDLCAEGTHGCEHLCVNSVDSY
 FCRCRAGFALQQDQRSCRAIDYCSFGNHSCQHECVSTLAGPQCRCREGHDLLPDGRSCRVRDFCNGVDHG
 CEFQCVSEGLSFHCLCPEGRRQLADGKSCDRCREGHVDLVLLVDGSKSVRPQNFELVKRFVNQIVDFLDV
 SPEGTRVGLVQFSSRVTEFPLGRYGTAAEVKQAVLAVEYMERGMTGLALRHMVEHSFSEAQGARPRDL
 NVPRVGLVFTDGRSQDDISVWAARAKEEGIVMYAVGVKAVEEELREIASEPSELHVSYPDFSTMTHLL
 ENLKGSICPEEGIGAGTELRSPCECESLVEFQGRTLGALESLTQNLARLTERLEELENQLASRK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_013592

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:

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_013592.2](#), [NP_038620.1](#)

RefSeq Size: 2508 bp

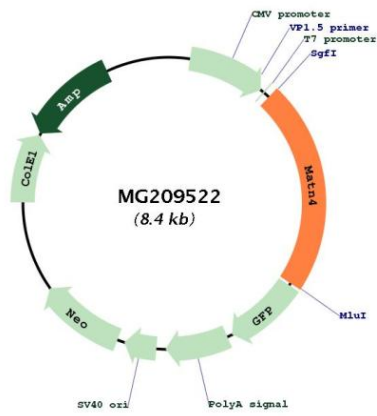
RefSeq ORF: 1875 bp

Locus ID: 17183

Cytogenetics: 2 85.16 cM

Gene Summary: Major component of the extracellular matrix of cartilage.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209522