

## Product datasheet for **MC220646**

### **Matn2 (BC005429) Mouse Untagged Clone**

#### **Product data:**

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Matn2 (BC005429) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Matn2                                 |
| Synonyms:                 | Crtm2; matrilin-2                     |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | pCMV6-Entry (PS100001)                |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |



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**Fully Sequenced ORF:** >MC220646 representing BC005429  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAAGATGTTGGTGGGATGCTTGCTGATGCTTGGCAGCTCTTCTTGTCTCCAGTTGACGGCA  
 GAGAGCGTCCCAAGCCAGGTTCCCTTCCAGAGCCGTCATGTCCGGATGTATCCGAGACTGCACTGCT  
 GGAGAGTTCCTGTGAGAATAAGCGGGCAGATCTGGTGTTCATCATTGACAGCTCCCGAAGTGTCAACACC  
 CATGACTATGCAAAGGTCAAGGAGTTCATTCTGGATATCCTGCAGTTCTTGGACATCGGTCTGATGTTA  
 CCCGAGTAGGCTGCTCCAATATGGCAGCACGGTCAAGAACGAGTTCTCCCTGAAGACCTTTAAGAGGAA  
 GTCTGAGGTGGAGAGGGCTGTCAAGAGAATGAGGCATCTATCCACTGGCACCATGACAGGGCTTGCCATC  
 CAATATGCCCTCAACATTGCCTTCTCAGAAGCAGAGGGGGCCAGGCCCTTGGGGAAAATGTGCCACGCA  
 TCATAATGATTGTGACTGATGGGAGCCCTCAGGACTCGGTAGCTGAGGTAGCTGCCAAGGCCCGGAACAC  
 AGGCATCTGATCTTTGCCATCGGTGTCCGTGAGGTGGACCTGAATACACTAAAGGCCATTGGGAGTGAG  
 CCCACAAGGACCATGTCTTCTGGTGGCAATTTAGCCAGATTGAGTCCCTGACCTCAGTGTTCAGAA  
 ACAAACTGTGCACAGTCCACATGTGCAGCATCTTGAACACAACCTGTGCCCACTTCTGCCTCAACACACC  
 TGGCTCGTACATCTGCAATGCAAGCAAGGGTACATTCTCAGCACGGATCAGAAGACTTGCAGAATCCAG  
 GATTTGTGTGCCACAGAGGACCATGGTTGTGAGCAGCTGTGCGTGAACATGTCTGGTTTCTTTGTCTGCC  
 AGTGCTACAGTGGCTACACCTTGGCTGAGGACGGGAAGCGATGTACCGCTGTGGACTACTGTGCCTCAGA  
 AAATCATGGATGTGAACACGAGTGTGAAATGCTGAAAGTTCTACCTGTGCCGGTGCCACGAGGGATTT  
 GCTCTTAACAGCGATAAGAAAACATGCTCAAAGATTGACTATTGTGCCTCTTCAAATCACGGATGTCAG  
 ATGAGTGTGCAATGCCAGACGTCTGCTCTGCGCTGCCTGAAAGGCTTTCATGCTAAATCCAGACAG  
 GAAAACCTTGCCGAAGGATCAACTACTGTGCACTGAACAAACAGGCTGTGAGCATGAGTGTGTGAACACA  
 GAGGAGGGTCACTACTGCCGCTGCCGTACAGGGCTACAATCTGACCCCAATGGCAAGACCTGCAGCCGGG  
 TGGACCACTGTGCACAGCAGGACCATGGCTGTGAGCAGCTGTGCCTGAACACAGAGGAGTCTTTGTCTG  
 CCAGTGTCTCAGAAGGCTTCTTATTAATGATGACCTCAAGACCTGCTCCAGGGCAGATTACTGCTTGCTG  
 AGCAACCATGGTTGTGAATACTCTGCGTCAACACAGACAATCTTTGCCTGCCAATGTCTGAGGGTC  
 ATGTGCTCCGAAGCGATGGGAAGACCTGTGCAAACTGGACTCTTGTGCTTTGGGGACCATGGTTGTGA  
 ACATTCATGTGTAAGCAGTGAAGACTCTTTCGTGTGTCAGTGCTTTGAGGGGTACATTCTCGTGACGAT  
 GGAAGACCTGCAGAAGGAAAGATGTCTGCCAGGATGTTAACCATGGATGTGAGCACCTTTGTGTGAACA  
 GTGGCGAATCATACGTCTGCAAGTGTCTGGAGGGTTACGGCTGGCTGAGGATGGGAAGCGCTGCAGGAG  
 GAAGAATGTCTGCAAGTCAACCCAGCATGGCTGTGAGCACATGTGTGTGAACAATGGGAACCTCTATCTG  
 TGCAGGTGCTCAGAGGGCTTTGTCTAGCTGAGGATGGAAGCACTGCAAGAGATGCACTGAAGGCCAA  
 TTGACCTGGTCTTTGTGATTGATGGATCCAAGAGCCTTGGAGAAGAGAATTTGAGACTGTGAAGCACTT  
 TGTCACTGGAATCATAGATTCTTGGCAGTTTCCCCAAAGCTGCTCGTGTGGGGCTGCTGCAGTATTCC  
 ACACAGGTCCGAACAGAGTTTACCCTGAGGGGCTTACGCTCAGCCAAGGAAATGAAGAAAGCCGTGGCCC  
 ACATGAAATACATGGGCAAGGCTCTATGACTGGGCTGGCCCTGAAACACATGTTTGAGAGAAGTTTAC  
 CCAAGTAGAAGGGGCCAGGCCCCCTCCACGAGGTACCCAGAGTAGCCATCGTGTTCACCGACGGACGG  
 GCTCAGGATGATGCTCTGAGTGGCCAGTAAAGCCAAGGCCAATGGTATCACTATGATGCCGTTGGGG  
 TAGGAAAAGCCATTGAGGAAGAACTACAGGAGATTGCCTCTGAGCCATTGACAAGCATCTCTTCTACGC  
 TGAAGACTTCAGCACAATGGGCGAAAATAAGTAAAAGCTGAAAGAAGGCATCTGTGAAGCTCTAGAAGAC  
 TCTGGTGAAGACAGGACTCAGCAGCATGGGACCTGCCACAGCAGGCCACCAGCCAACAGAACCTGAGC  
 CAGTACCATAAAGATCAAAGACCTACTTCTGTTCTAATTTTGCAGTGAACATAGATTCTGTTTGA  
 AGAAGACAATCTTTCACGGTCTACAAAAAATTTTCCATTCAACCAAATCTTCAGGAAACCTTTGGAA  
 GAAAGCCAGGACCAATGCAAATGTGAAAACCTTATACTGTTCCAGAACGTTGCAAATGAAGAAGTAAGAA  
 AATTAACCCAGCGCTTAGAAGAAATGACTCAAAGAAATGGAAGCTTTGAAAATCGCCTAAAATACAGATG  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                               |   |
|-------------------------------|---|
| <b>Chromatograms:</b>         | <a href="https://cdn.origene.com/chromatograms/ja1701_c10.zip">https://cdn.origene.com/chromatograms/ja1701_c10.zip</a>   |
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | BC005429  |
| <b>Insert Size:</b>           | 2871 bp   |
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">BC005429</a> , <a href="#">AAH05429</a>   |
| <b>RefSeq Size:</b>           | 3273 bp   |
| <b>RefSeq ORF:</b>            | 2870 bp   |
| <b>Locus ID:</b>              | 17181   |
| <b>Cytogenetics:</b>          | 15 B3.1   |
| <b>Gene Summary:</b>          | Involved in matrix assembly.[UniProtKB/Swiss-Prot Function]   |