

## Product datasheet for **MC222732**

### **Matn2 (NM\_016762) Mouse Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Matn2 (NM_016762) 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:**

>MC222732 representing NM\_016762  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGAAGATGTTGGTGGGGTCTTGCTGATGCTTGGCAGCTCTTCTTGTCTCCAGTTGACGGCA  
 GAGAGCGTCCCAAGCCAGGTTCCCTTCCAGAGCCGTCATGTCCGGATGTATCCGAGACTGCACTGCT  
 GGAGAGTTCCTGTGAGAATAAGCGGGCAGATCTGGTGTTCATCATTGACAGCTCCCGAAGTGTCAACACC  
 TATGACTATGCAAAGGTCAAGGAGTTCATTCTGGATATCCTGCAGTTCTTGGACATCGGTCTGATGTTA  
 CCCGAGTAGGCTGCTCCAATATGGCAGCACGGTCAAGAACGAGTTCTCCCTGAAGACCTTTAAGAGGAA  
 GTCTGAGGTGGAGAGGGCTGTCAAGAGAATGAGGCATCTATCCACTGGCACCATGACAGGGCTTGCCATC  
 CAATATGCCCTCAACATTGCCTTCTCAGAAGCAGAGGGGGCCAGGCCCTTGC GGAAAAATGTCCACGCA  
 TCATAATGATTGTGACTGATGGGAGCCCTCAGGACTCGGTGGCTGAGGTAGCTGCCAAGGCCCGGAACAC  
 AGGCATCTGATCTTTGCCATCGGTGTCCGTGAGGTGGACCTGAATACACTAAAGGCCATTGGGAGTGAG  
 CCCACAAGGACCATGTCTTCTGGTGGCAATTCAGCCAGATTGAGTCTTGACCTCAGTGTTCAGAA  
 ACAAACCTGTGCACAGTCCACATGTGCAGCGTCTTGAACACAACCTGTGCCCACTTCTGCCTCAACACACC  
 TGGCTCGTACATCTGCAAGTGAAGCAAGGGTACATTCTCAGCACGGATCAGAAGACTTGCAGAATCCAG  
 GATTTGTGTGCCACAGAGGACCATGGTTGTGAGCAGCTGTGCGTGAACATGTGGGTTCTTTGTCTGCC  
 AGTGCTACAGTGGCTACACCTTGGCCGAGGACGGGAAGCGATGTACAGCTGTGGACTACTGTGCCTCAGA  
 AAATCATGGATGTGAACACGAGTGTGAAATGCTGAAAGTTCTACCTGTGCCGGTGCCACGAGGGATTT  
 GCTCTTAACAGCGATAAGAAAACATGCTCAAAGATTGACTATTGTGCCTCTTCAAATCACGGATGTCAGC  
 ATGAGTGTGTCAATGCCAGACGTCTGCTCTGCGGCTGCCTGAAAGGCTTCATGCTAAATCCAGACAG  
 GAAAACCTTGCCGAAGGATCAACTACTGTGCACTGAACAAACAGGCTGTGAGCATGAGTGTGTGAACACA  
 GAGGAGGGTCACTACTGCCGCTGCCGTACAGGGCTACAATCTGACCCCAATGGCAAGACCTGCAGCCGGG  
 TGGACCACTGTGCACAGCAGGACCATGGCTGTGAGCAGCTGTGCCTGAACACAGAGGAGTCTTTGTCTG  
 CCAGTGTCTCAGAAGGCTTCTTATTAATGATGACCTCAAGACCTGCTCCAGGGCAGATTACTGCTTGCTG  
 AGCAACCATGGTTGTGAATACTCTGCGTCAACACAGACAATCTTTGCCTGCCAATGTCTGAGGGTC  
 ATGTGCTCCGAAGCGATGGGAAGACCTGTGCAAACTGGACTCTTGTGCTTTGGGGGACCATGGTTGTGA  
 ACATTCATGTGTAAGCAGTGAAGACTCTTCGTGTGTCAGTGCTTTGAGGGGTACATTCTCGTGACGAT  
 GGAAGACCTGCAGAAGGAAAGATGTCTGCCAGGATGTTAACCATGGATGTGAGCACCTTTGTGTGAACA  
 GTGGCGAATCATACGTCTGCAAGTGTCTGGAGGGTTACGGCTGGCTGAGGATGGGAAGCCCTGCAGGAG  
 GAAGAATGTCTGCAAGTCAACCCAGCATGGCTGTGAGCACATGTGTGTGAACAATGGGAACCTCTATCTG  
 TGCAGGTGCTCAGAGGGCTTTGTCTAGCTGAGGATGGAAGCACTGCAAGAGATGCACTGAAGGCCAA  
 TTGACCTGGTCTTTGTGATTGATGGATCCAAGAGCCTTGGAAGAGAAGTCTTGAGACTGTGAAGCACTT  
 TGTCACTGGAATCATAGATTCTTGGCAGTTTCCCCAAAGCTGCTCGTGTGGGGCTGCTGCAGTATTCC  
 ACACAGGTCCGAACAGAGTTTACCCTGAGGGGCTTACGCTCAGCCAAGGAAATGAAGAAAGCCGTGACCC  
 ACATGAAATACATGGGCAAGGCTCTATGACTGGGCTGGCCCTGAAACACATGTTTGAGAGAAGTTTTAC  
 CCAAGTAGAAGGGGCCAGGCCCCCTCCACGCAGGTACCCAGAGTAGCCATCGTGTTCACCGACGGACGG  
 GCTCAGGATGATGCTCTGAGTGGGCCAGTAAAGCCAAGGCCAATGGTATCACTATGATGCCGTTGGGG  
 TAGGAAAAGCCATTGAGGAAGAACTACAGGAGATTGCCTCTGAGCCATTGACAAGCATCTCTTCTACGC  
 TGAAGATTTAGCACAATGGGCGAAATAAGTGAAGGCTGAAAGAAGGCATCTGTGAAGCTCTAGAAGAC  
 TCTGGTGAAGACAGGACTCAGCAGCATGGGACCTGCCACAGCAGGCCACCAGCCAACAGTGAACATA  
 GATTCCTGTTTGAAGAAGACAATCTTTCACGGTCTACACAAAACTTTTCCATTCAACCAATCTTCAGG  
 AAACCTTTGGAAGAAAGCCAGGACCAATGCAAAATGTGAAAACCTTATACTGTTCCAGAAGCTTGCAAA  
 GAAGAAGTAAGAAAATTAACCCAGCGCTTAGAAGAAATGACTCAAAGAATGGAAGCTTTGAAAAATCGCC  
 TAAAATACAGATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

|                               |   |
|-------------------------------|---|
| <b>ACCN:</b>                  | NM_016762   |
| <b>Insert Size:</b>           | 2814 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="#">NM_016762.2</a> , <a href="#">NP_058042.2</a>   |
| <b>RefSeq Size:</b>           | 3520 bp   |
| <b>RefSeq ORF:</b>            | 2814 bp   |
| <b>Locus ID:</b>              | 17181   |
| <b>Cytogenetics:</b>          | 15 B3.1   |
| <b>Gene Summary:</b>          | Involved in matrix assembly.[UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.  |