

## Product datasheet for MC229573

### Tmem2 (NM\_001033759) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem2 (NM_001033759) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmem2
Synonyms:	3110012M15Rik; mKIAA1412
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229573 representing NM_001033759 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATGCCGCTGGTTCCAGGGGCCACTCCCCTGCTTTCCTGCAACCTCAAACGGAAACGGCCACCGCT  
CACCTGGTTATGTTCCCGGAAGGTGGTCCCTTACGTCCCGCGCTCCTCAAAGAACCACGCCTCCG  
CAAAGTACCTCCAGGAGCCAAGACGCCCCAGCGACCTTGTCTTCTCCCGGAGGAGCAGCGGACTCCG  
AGCGAGAGCCGAAAGCGGAAGAGGCACAAGAACACCTTCATCTGCTTCGCCATAACCAGCTTCTCGTTCT  
TTGTGGCGCTTGGGTCAATTTGGGAATATCCTCAAATACGCTCCAGATGAGAATTGTCCAGATCAAAA  
CCCTCGTCTCAGGAAGTGGGATCCAGGACAAGATTCTGCGAAGCACATTGTTATCAAGGAGGGGATTTG  
TCCCGCTGACCTCAGATGCAACAGTGGACTCTATAGTCAATTCAGGATGGAGGACTGCTTGTGTTGGGG  
ATGATAAAGATGGATCCAAGAATATACTTTGAGGACTCGATACATCCTGATCCAGGATGGTGGGGCGCT  
TCATATTGGAGCAGAAAAATGCCGCTATAGATCCAAAGCGACAATTACCTTGTATGGCAAGTCAGATGAA  
CGTGAAAGTATGCCAATATTTGGCAAGAAGTTATTGGCGTGGAGGCTGGCGGGACACTGGAGTTACAG  
GGGCACAGAGGACATCATGGACGATGCTGGCGAGGACTCTGCATTCTTCAGGCTTGCCCTTTGGGTCTTA  
TGCCTTCGAGAAGGACTTTCCCGGGCCCTTAATGTGAGGGTCATTGATCAAGACACAGCCAGAGTTTTA  
GAAAACGAGAAGTTCGATACCCACGAGTACCACAATGAGAGCAGGAGGCTGCAGGAGTTTTTGGAGCTC  
AGGAGCCCGCCGATTGTGGCTATTGCTGTTGGAGACTCAGCAGTCAAGAGCCTGTTACAGGGAACAAT  
CCAGATGATCCAGGATCGGTTGGGGAGTAACTGATCCAAGGTCTGGGCTACAGGCAAGCTTGGGCTTA  
GTTGGTGTATCGATGGTGAAGTTCTTCTGCAATGAATCTGTGAGAACTATGAAAACCATAGCACTG  
GGGGGAAGGCCCTGGCTCAAGGAGAATTCTACACCCTGGACGGTCAGAAGTTCTCTGTGACAGCCTACAG  
TGAATGGAGTCAAGGAATCTCCCTCTCAGGCTTCCGGTGGACATTGCGGATGGAGTGAAGCTTACCTG  
TTGGACGACGTCAGCACTTGGGAAGCTGGAGACCGAATTGTGGTGGCCAGCAGCAGCTATTCCATGTACC  
AAGCAGAGGAGCTAACTTCTCCGCTGCCCGAGTGCAGCCGTTCTCAGGTCAAAGTCAAAGAGATCCC  
CCAGTACCTGCAGTCGGTGAGATCATAGACGGGATAGACATGAGAGCTGAGGTTGGACTTCTACCCCG



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AACATTGTGATCCAAGGAGAGATGGAGGATTCATGCTATGCAGAAAATCACTGCCAGTTCTTCGATTATG  
 ACACCTTTGGGGACACGTCATGATAGAGAAGAATTTACTTCAGTCCATCTTTCTTATGTGGAATTGAA  
 ACACATGGGCCAGCAGCATATGGGCCGGTATCCTGTGCATTTTACCTGTGTGGAGATGTAGATTCTAAA  
 GGAGGGTACAGCCAGCCAGCGTCTGTGGATGGCCTGTCTGTTTCATCACAGCTTTTCAAGGTGCATCACCG  
 TGCACGGGACCAGTGGCTTGCTAATCAAAGACACCATTGGCTTCGACACACTAGGTCATTGCTTCTTTT  
 GGAAGATGGTGTGAACAGCGAAATATTTGTATCATAACTTGGGGCTTCTTACCAAGCCGGGCACTCTC  
 CTCCCAACGGACAGGAACAGCTCCATGTGCACCCGTATGCGTGTGGAGTGTGGAAACTACGTCCTGTG  
 TGCCCTACCACAGACTGCATGGCTGTTTCAACTTTCTGGATTGCCACCCCAACAACCACCTGATCAATAA  
 CGCAGCTGCAGGCTCACAGGATGCTGGAATATGTTATTTATTCCACAAGGAACCAACTGGGGAGTCCAGT  
 GGGCTGCAGCTCCTGGAGAAGCCAGAACTCACTCCGCTGGGGATATTTTATAACAACAGGGTTTCATTCAA  
 ATTTTAAAGCTGGTTTATTTGTGGACAAAGGTGTCAAACGACCAACGCCAGTGCATCTGACCCAAGGGA  
 GTACCTCTGCCTGGATAACAGTGAAGGTTTGGCCCCATCAGGATGCAGACCCTGAGAAGCCACGCGTT  
 GCAGCCATCATCGACAGGCTCATTGCTTTAAGAACAATGACAACGGAGCCTGGGTGAGAGGAGGAGATA  
 TTATTGTTGAGAATTCAGCATTTCAGATAACGGAAAGGGGCTGACCTTTGCCAGTGATGGGAGCTTCCC  
 AAGCGATGAAGGGTCCAGTCAGGAGGTGACAGAGTCCCTTTTGTGGGGAGAGTAGGAATTACGGCTTT  
 CAAGGTGGCCAAAACAAGTACATGGGCACAGGGGAATCGATCAGAAGCCTCGGACGCTACCCAGGAACA  
 GGACATTTCCCAATCCGAGGCTTTCAGATTTACGATGGGCCTATTCATCTCACAAGAGTACTTTCAAAAA  
 GTATGTGCCAACTCCAGACAGGTACAGCAGTGAATTGGCTTCCTCATGAAGAATTCCTGGCAGACAACA  
 CCCAGGAATAACGTTTCCCTTGTGAAGTTTGGTCCACAGGTCTCTCTGAACGCTTCTTTGGAAAGCCTG  
 GCCCTGGTTTGGAGATTGTGAGCTGGACGGCGATAAGAACTCCATCTTCCATGACATTGATGGCTCTGT  
 GACAGGATAACAAGGACACCTATGTGGGAAGGATGGACAACCTGATCCGCCATCCAACTGTGTCAAT  
 GTTACTAAGTGAATGCAGTGTCTGTAGCGGGACCTACGCCAGGTGTATGTTGAGAGTGAACACTC  
 CGAATCTTAGCATGATCATCACACGGGATGAATACCCATCCCAACCAATGGTGTTCGGGGTATCAACCA  
 GAGGGCCATCTCTCCACAGTACCAGCTGTTGTCATGCTGGAGAAGGGCTACACCATCCACTGGAATGTT  
 CCAGCGCCACGAACCACTTTCTGTACCTCGTGAACCTTCAACAAGGATGACTGGATCCGGGTTGGCCTCT  
 GTTACCCAGCCAACACGAGCTTTCAGGTTACCGTTGGCTTCTGCAGCGCAGAACGGCTCATTATCTAG  
 AATTGAGGACTATGAGCCTGCGCGGTGATGGAGGAACTGCAGAAGAAGCCGTCTGAGAGAAAATCTAT  
 TTTGACTCTGGCACAGGGTTATTGTTTCTGTATCTCAGAGCCACAGCCACAGAGATGGCCACAGTTACT  
 GTTCATCTCAGGGATGTGAAAGAGTCAAGATTCAGGCAGCAACAGACTCCAAAGATATCAGTAAGTGCAT  
 GGCCAAAGCGTACCCGACGATTACAAGAAGCCCTCGGCGGTCAAGCGCATGCCGGCCATGCTCACGGGG  
 CTCTGTCAAGGCTGTGGAACCCACCAGATGGTGTACCAGTACCCCTCACAAGAGTACCTCCCTGTAC  
 GATTCCAGTACCTGGGAAAGCAGAAATTCAGCGAGGAGATCCATCCATTATTTCCGTCAATGGTACTGA  
 CTTTACCTTCCGGAGTGCGGGTGCCCTCCTCCTCATTGTGGATGCCTGCAGTGTGCCCTCCGGGTGAAG  
 GAAAAGCGGATGTTCTTTCTGCAGACGTGAGTACATGGAAGAATTTCAAGGCTAGCATCCCCCAA  
 GGTCAATCGTTCTGTTGAGCACAAGAGGAGAAATTAAGCAGTGAATATCTCGGATTCATTAGCAGTTCT  
 GGGACTGGCCAAGCCAGCACATCTGTACAGCAAAGGTAGTGTGATTTTTGGGATTGAGCGGAACTTC  
 GCACCGTCATGGACGAAGCTGTTACCAGTCCCGATGAGCAGGGCCTCGGAGTGTGAGCAGTTTCTCC  
 CGTTGCAGATGGAGGAATATGGGTGCTCCCGACCGGCAGTGTCCACAGAAGAGACCTTGACCTGTTACA  
 GCAGGCTTTGAAAGTGCTTAG

ACGGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-NotI

**ACCN:**

NM\_001033759

**Insert Size:**

4152 bp

**OTI Disclaimer:**

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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001033759.2</a></u> , <u><a href="#">NP_001028931.1</a></u>
<b>RefSeq Size:</b>	6620 bp
<b>RefSeq ORF:</b>	4152 bp
<b>Locus ID:</b>	83921
<b>UniProt ID:</b>	<u><a href="#">Q5FWI3</a></u>
<b>Cytogenetics:</b>	19 B
<b>Gene Summary:</b>	<p>Cell surface hyaluronidase that mediates the initial cleavage of extracellular high-molecular-weight hyaluronan into intermediate-size hyaluronan of approximately 5 kDa fragments (By similarity). Acts as a regulator of angiogenesis and heart morphogenesis by mediating degradation of extracellular hyaluronan, thereby regulating VEGF signaling (By similarity). Is very specific to hyaluronan; not able to cleave chondroitin sulfate or dermatan sulfate (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.</p>