

## Product datasheet for **MC228703**

### Adam5 (NM\_001272059) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam5 (NM_001272059) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adam5
Synonyms:	tMDC; tMDC II; tMDCII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228703 representing NM\_001272059  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTCTTCTTTTGTCTTTTGCATCTTAAAGGGCTGCAGGCAGGCCAGAATCTCAGAAAACCA  
 CCTGCAGACAACCTGTTCTGAAAAGATCTCATCACCGGATGTGGAACAGATGCAGAAGACCATATGGC  
 TTATCTTATTACAATAAATGAAACCCCCATTTTCATCCATCTTAAAAACAATCATTTATAACTCCAAC  
 GCAGTTGTTTATACTTACGACAGAAATGATGTTCAACATTCTCAACCTTTGTCAGCTCTGAAAAATTGCA  
 ATTACAATGGATATGTTGCAGGTTTCCAAACTCTATCGTGACCCTCACCGTTTGCACAGGACTCAGGGG  
 AATCATACAGTTTGAAAATGTCTCCTATGCAATCGAGCCCGTGGAAACCTGTCAGGATTTGTCACGTTG  
 ATCTATGAGAACAACAACAACATGCTGTGATTCTGACCTGGGAAAGAATCAGTCATACAGTTGGTTT  
 ACGAATCAGATTCAATCCGGAGTAACATGAAGAAATCTGGATTTACCGTGTACGCCAACGATTCAT  
 TATGATGGATATCATCGTGGATAAAAAGCTGTTTATTACATGGGTTCTGACACTGAAGTTGTGCTACAG  
 AAAGTCATTACAGATCATCGGTTTCGTTAACACTATGCTCTCCAAGTTAAAACGACTGTCTTAATAAATT  
 CCATTGAAATCTGGTCAAGGAAAACAGAATTCGTTTATCAAAGGCAGTTGATGACTTATTGGTTCAAGT  
 CTCAATTTGAAAACATGAGTATAGATCACAACTGTTGCATACTTACTGGCATTGAGGAGCACCCCTGCT  
 TCCACGGGGGCTCTATATCCAGGGAATCTGTGCAAACTGGAGTACAATGCTGCTGTTGCCCTGTATCCAA  
 AAGGTTTATCGTTAGAATCGTTTAGTGCTTGTCTGCAGCTGCTGAGCATTGGTATGGGCTTAACTTA  
 CGACACTGAGAACTGCCACTGTACAGGAGAAGTTGCCTAATGACGCCAAAGCAATATATTCTGGGGGT  
 GTGAAGGACTTCAGTACTTGTACCCTGGATGACTTTAAATACCTGTCAACAAGACAAGACCTTAGATGTC  
 TCCAGGACTTGCCTTTGAAAAGAAAGCCAGCTCGCAGGCCAAGGAGAATCTGTGGCAATGGGATACTGGA  
 GATGAACGAGCAATGTGACTGTGGCACTTTGAAGAACTGTACACATAGAAAATGCTGTGACCCTATGTCA  
 TGTCGATTGAAAACAAGGCCACGTGTGTTCTGGGGAGTGTGTAGTCAAGATTGCACGGTAAAAATGA  
 ATGATGTGGTCTGTAGAAAGTCGGTAGATGAATGTGACTTTGTGGAGTACTGTAACGAAAAGATCCCTA  
 TTGTGTCCCTAACACATATGCACGCAATGGGCAGTATTGTGAATCAGGTGAAGCCTTCTGTTTTGAAGGA  
 CGATGTCAGACTGCTGACAAGCAATGTATGAGCATGCTTGGGAAATACGTGAGAGGGGCTCCTTTGCGT  
 GCTATGAAGAGTTCAATCCAGAGGCGATAGATTTGGCAACTGTATTATAATTTTTGTGCTTTCAGAAA  
 TTCTCTCTGTGGAAACTAATCTGTACGTGGCCATTCAAGAAGCTGGTGTAAAAGCCAATTTATCTGTG  
 GCCTATGCGCAAATCCGGGATGACTTGTGTGTAGCTATGTATAAAGGTGGGAGGATACCTAAGACAACAA  
 AGACGACATATCCAATCCAGCGGACAGAGATGAGACATTTGTAACGACGGCACCATCTGTGGCCCTGA  
 TATGTTTTGTTTGTGAGAGCATCATGCACAGAAACTAGATTTACATGGATTCTTCCAAGTGTGATTCAACT  
 AGAGATTGCAACGACCATGGGGTTTGAACAATTTACAGCATTGCCACTGTGATATAGGATATAACCCCTC  
 CTTTTTGTGAGGAACATAAGGGACAGTTTGAAGCGTTGATGATGGACATAAATATCATGTTGAAGCTCA  
 TCTACGGACCCACCAATCACACCAAAACCAGAAAAGGATTCTGTACGTCTTTGCTC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001272059

**Insert Size:** 2088 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_001272059.1</a></u> , <u><a href="#">NP_001258988.1</a></u>
<b>RefSeq Size:</b>	2739 bp
<b>RefSeq ORF:</b>	2088 bp
<b>Locus ID:</b>	11499
<b>UniProt ID:</b>	<u><a href="#">Q3TTE0</a></u>
<b>Cytogenetics:</b>	8 13.26 cM
<b>Gene Summary:</b>	<p>This gene encodes a member of a disintegrin and metalloprotease (ADAM) family of endoproteases that play important roles in various biological processes including cell signaling, adhesion and migration. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. This gene is located in a cluster of related ADAM genes on chromosome 8. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, May 2016]</p> <p>Transcript Variant: This variant (4) lacks two consecutive exons in the 3' coding region which results in a frameshift, compared to variant 1. The encoded isoform (4) is shorter and has a distinct C-terminus, compared to isoform 1. This isoform (4) may undergo proteolytic processing similar to isoform 3.</p>