

## Product datasheet for **MC228390**

### Adam17 (NM\_001291871) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam17 (NM_001291871) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adam17
Synonyms:	CD156b; Tac; Tace
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228390 representing NM\_001291871  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCGTGGAGAAGAGAGACCACACTACAAATTACTTAATAGAGCTAATTGACCGAGTTGATGACATAT  
 ACCGGAACACGTCGTGGGATAATGCAGGGTTAAAGGGTATGGAGTGCAGATAGAGCAGATTCTGAATTCT  
 CAAGTCTCCACAAGAGGTAAAACCTGGTAAAAGACACTTCAATATGGCAAAAAGTTTCCCAAACGAAGAG  
 AAGGATGCTTGGGATGTGAAGATGCTATTAGAGCAATTTAGCTTTGATATAGCTGAAGAAGCATCTAAAG  
 TCTGCCTGGCTCATCTTTTACGTACCAGGATTTTGATATGGAACTCTTGGATTAGCTTACGTTGGTTC  
 TCCCAGAGCAAACAGTCATGGAGGGTTTGTCCAAAAGCTTATTACAACCAACTGTGAAGAAAAACATC  
 TATTTAAATAGTGGTCTGACTAGTACTAAAAATTATGGCAAACTATTCTCACAAGGAAGCTGACCTGG  
 TTACAACCTCATGAATTGGGACATAATTTTGGAGCAGAACATGACCCTGATGGGCTAGCAGAATGTGCCCC  
 AAATGAGGACCAAGGAGGAAAGTATGTCATGTATCCCATAGCTGTGAGCGGTGACCACGAGAATAATAAG  
 ATGTTTTCAAACCTGCAGTAAACAGTCCATCTACAAGACCATAGAAAGTAAGGCTCAAGAGTGCTTCCAGG  
 AGCGCAGCAACAAGGTGTGTGGCAACTCCAGGGTGGATGAAGGAGAGGAGTGTGACCCGGGTATTATGTA  
 CCTGAACAACGACACCTGCTGCAATAGTACTGCACACTGAAGCCGGGTGTGAGTGCAGTATAGGAAC  
 AGTCTTGTCTGTAAAACTGTCAGTTTGTAGACGGCGCAGAAGAAGTGCCAGGAGGCTATTAATGCTACAT  
 GCAAAGGAGTGTCTTACTGCACAGGGAATAGCAGTGTGAGTGTGCCCCACCCGGAGATGCTGAAGATGACAC  
 TGTGTGCTTGGACCTTGGCAAGTGAAGGCTGGGAAATGCATCCCTTTCTGCAAGAGGGAGCAGGAGCTG  
 GAGTCTGCGCATGCGTTGACACTGACAACCTCGTGAAGGTGTGCTGCAGGAACCTTTCTGGCCCGTGTG  
 TGCCGTACGTGATGCGAGCAAAAAGAACTTGTTTTTGAGGAAAGGGAAGCCATGTACAGTAGGGTTTTG  
 CGACATGAATGGCAAATGTGAGAAACGAGTACAGGACGTAATTGAGCGATTTTGGGATTTTATTGACCAG  
 CTGAGCATCAACACTTTTGGGAAGTTTCTGGCAGATAACATCGTTGGGTCTGTTCTGTTTTCTCCTTGA  
 TATTTTGGATTCTTTTACGATTCTTGTCCACTGTGTGGATAAGAACTGGACAAGCAGTATGAATCCCT  
 GTCTGTGTTTATCACAGTAACATTGAGATGCTGAGCAGCATGGACTCAGCATCTGTTCCGATCATCAAG  
 CCCTTTCTGCACCCAGACTCCAGGTCGTCTGCAGGCCCTGCAGCCAGCTGCCATGATGCCCCAGTAC  
 CTGCAGCTCCAAAAGTGGACCACCAGAGGATGGACACCATCCAGGAAGACCCAGCACAGACTCACATGC  
 AGATGATGACGGTTTTGAGAAGGACCCCTTCCCCAACAGCAGCACAGCTGCCAAGTCTTTGAGGATCTC  
 ACAGACCACCCAGTACCAGGAGCGAAAAGGCGGCTCATTCAAGCTGCAGCGTCAGAGCCGAGTTGACA  
 GCAAAGAGACAGAGTGC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001291871
- Insert Size:** 1770 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001291871.1](#), [NP\\_001278800.1](#)

**RefSeq Size:** 4470 bp

**RefSeq ORF:** 1770 bp

**Locus ID:** 11491

**UniProt ID:** [Q9Z0F8](#)

**Cytogenetics:** 12 8.3 cM

**Gene Summary:** 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 enzyme that is involved in the proteolytic release of membrane-bound proteins in a process called ectodomain shedding. Mice lacking the encoded protein die in utero or fail to survive beyond one week of age. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, May 2016]

Transcript Variant: This variant (4) uses an alternate 5' splice site, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded protein (isoform 4) has a shorter N-terminus than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.