

## Product datasheet for **MC228441**

### Adam19 (NM\_001291891) Mouse Untagged Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                        |
| Product Name:      | Adam19 (NM_001291891) Mouse Untagged Clone |
| Tag:               | Tag Free                                   |
| Symbol:            | Adam19                                     |
| Synonyms:          | AL024287; MADDAM; Mlt; Mltnb; MTLNB        |
| Vector:            | pCMV6-Entry (PS100001)                     |
| E. coli Selection: | Kanamycin (25 ug/mL)                       |
| Cell Selection:    | Neomycin                                   |



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**Fully Sequenced ORF:** >MC228441 representing NM\_001291891  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCATGTGCTCCGTGTACCAGTCTGGAGGAGTTAGCATGGACCACTCCGAGAATGCCATTGGTGTAG  
 CCTCCACTGTGGCCCATGAGATTGGCCACAACCTTTGGCATGAGCCATGATTCTGCACACTGCTGTTCTGC  
 CAGTGCAGCCGATGGCGCTGCATCATGCCCGCCGCCACCGGGCACCCCTTTCCCAAAAGTGTTCAGTTGG  
 TGTAACAGGAAGGAGCTGGACAGGTATCTGCAGACAGGAGGAGGATGTGTCTCTCCAACATGCCGGACA  
 CTAGGACGCTGTATGGAGGCCGAGGTGTGGCAACGGGTACCTGGAAGACGGTGAAGAATGTGACTGTGG  
 AGAAGAGGAGGAATGTAAGAACCCTTGTCGAATGCCTCCAACCTGCACTCTGAAGGAAGGGCAGAGTGT  
 GCCCATGGTTCCTGCTGCCACCAGTGAAGCTGGTGGCTCCTGGAACCCAGTGTCCGGGAGCAGGTTCCGG  
 AATGTGACCTCCCGAGTCTGCACCGGAAGTCTCCCACTGCCCACTAATTATCAGATGGATGG  
 CACCCCTGCGAGGGTGGCCAGGCTACTGCTACAACGGCATGTGCCTCACTTACCAGGAACAGTCCAG  
 CAGCTGTGGGGACCTGGAGCCCGCCTGCCTCGATCTTTGCTTTGAGAGGGTGAATGCTGCTGGTGA  
 CCTATGGAACCTGTGGCAAGGGCTTGAATGGCCAATACAGGAAGTGCAGTCCCAGGGATGCCAAGTGTGG  
 GAAGATTCAGTGCAGAGCACCCAGGCCCGCCCTGGAATCCAACGCAGTATCTATTGACACCACCATC  
 ACCTTGAACGGGAGGCGGATCCACTGTCGGGGCACCCAGTCTACCGGGTCTGAGGAGGAGGAAGGGG  
 AAGGTGACATGCTGGACCCAGGGCTGGTGTACTGGAACCAAGTGTGGCCACAACCATATTTGCTTCGA  
 GGGGCAGTGCAGGAACACCTCCTTTGAGACGGAAGGCTGTGGGAAAAGTGAATGGCCACGGGGTCT  
 TGCAACAACAACAAGAACTGTATTGCTCCCTGGCTGGTCTCCACCTTCTGTAACACCCCGGAGATG  
 GTGGCAGCGTCGACAGTGGTCCCTTTGCCCCCTAAGAGTGTGGTCCCGTATCGTGGGGTGTTCAGC  
 TCTCTTCGTGTTGGCAGTCTGGTGTACTGTGCACTGCTACAGACAGAGCCACAACCTGGGCAAAACC  
 TCGGCTCTCCCTTCAAGCTGCGCATCAGTTCAGTTGTCCTTTCAGGGTATCTCAGAGTGGTGAACCTG  
 GCCATGCCAACCAACTTTCAAGTTGCAGACCCCCAGGGCAAGCGAAAGGTGACTAACACCCCTGAATC  
 CCTCCGGAAGCCGTCCCACCCCTCCCGGCCCTCCAGACTACCTGCGCGTTGAATCGCCACCTGCA  
 CCATTGCCGACATCTGAACAGGGTGTGGGAGCTCCCAAGAGCTGGGGCTCGAATAGAAAGAAAGG  
 AGTCAGCCAGGAGGCTCCCAAGCCGACCCATGCCCTGCACCTAAGTGCCTACTGTCCAGGACTT  
 CTCCAGGCTCGACCACCTCAGAAGGCACTCCAGCCAATCCGGTCCAGGCCAAAGGACCGGTCCAGG  
 TCAGGAGGCACCTCCCTGCTTCCAGCCCTACTTCTGGTCTCAGCCCCCAGGCTCCAGCAGTGCCTG  
 TTCAAAGCTACCGAGTACCGATCACAGAGGGTTGGAGCAATAATTAGCTCCAAGATC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001291891
- Insert Size:** 1812 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\\_001291891.1](#), [NP\\_001278820.1](#)

**RefSeq Size:** 6421 bp

**RefSeq ORF:** 1812 bp

**Locus ID:** 11492

**Cytogenetics:** 11 27.54 cM

**Gene Summary:** This gene encodes a cell surface glycoprotein and member of the ADAM (a disintegrin and metalloproteinase) family of endopeptidases. The encoded protein may play a role in the ectodomain shedding of neuregulin proteins. Homozygous knockout mice for this gene exhibit heart development defects and perinatal lethality. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that undergoes proteolytic processing to generate a mature protein product. [provided by RefSeq, Aug 2015]  
Transcript Variant: This variant (3) uses an alternate internal splice site, compared to variant 1. This variant represents translation initiation at a downstream AUG compared to variant 1; the 5'-most initiation codon, as used in variant 1, is associated with a truncated ORF that would render the transcript a candidate for nonsense-mediated decay (NMD). Leaky scanning may allow translation initiation at the downstream AUG to encode an isoform (3) that has a shorter N-terminus, compared to isoform 1.