

## Product datasheet for **MC221479**

### Adam28 (NM\_001048175) Mouse Untagged Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids   |
| Product Name:      | Adam28 (NM_001048175) Mouse Untagged Clone                                    |
| Tag:               | Tag Free  |
| Symbol:            | Adam28  |
| Synonyms:          | C130072N01Rik; D430033C21Rik; Dtgn; Dtgn1; eMDCII; MDC-; MDC-L; MDCL; TECADAM |
| Vector:            | pCMV6-Entry (PS100001)  |
| E. coli Selection: | Kanamycin (25 ug/mL)  |
| Cell Selection:    | Neomycin  |



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**Fully Sequenced ORF:** >MC221479 representing NM\_001048175  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAGCAATGGAGTCTTCTGGTAGTCTCTTTCTTTCTTCTCCAGTTCAGTAAGTGAATAAAAGAAC  
 TCCTAAAGCCAAGAAATATGAAGTGGTTATCCCATAGACTTCATCCATTGCGTAAAAGAGAGACCCA  
 AGAGCCAGAGCCAAGGAAACATTTGAACTGAGCTAAGGTACAAAATGACAGTAAATGGAAGGTTGCT  
 GTGCTGTATCTGAAGAAGAACAACAAGCTCCTTGCCTGACTACTCGGAAACATACTATAATTCCAGTG  
 GAAACAAGGTCACCACAAGCCCGCAATTCATGGATAGCTGTTACTACCAAGGACACATCGTAAATGAGAA  
 AGTTTCTGCAGCCAGCATCAGCACCTGTCAAGGACTACGGGGTTACATCAGTCAAGGAGATGAAAAGTAT  
 TTTATCGAACCTTTGAGCTCGGAGAAGTGGATGAACAGGCACATGCACTCTTCAAGGACGACTCCAATG  
 AAGACCAGGAGAAGCAACTGTGGTGTGGATGATGCGCTATGGCTCCAAGGGCTGCATCAGGACGTGGC  
 CCTCCCTGCCACCAGGTTGATTAAGTTGAATGATGGGATGGTTCAAGAACCTAAGAAATACATAGAATAT  
 TATGTGGTCTGGATAATGGTGAGTTAAGAAATACAATAAAAAATCTTGCTGAAAACGAAAAGATAGTGC  
 TTGAGATGGCCAATTACATCAACATGCTTTACAATAAGCTTGATGCCACGTGGCCCTTAGTTGGAGTGGA  
 AATCTGGACCGATGGGGATAAAATAAGATAACACCAGATGCCAACACCACCCTGGAAAACCTTCTCTAAG  
 TGGAGGGGAAATGATCTGCTAAAACGAAAGCATCATGATATTGCCAGCTAATCTCATCAACAGACTTTT  
 CTGGATCAACAGTGGGTCTAGCCTTCATGTCGTCGATGTGTTACCTTACCATTCTGTTGGCATTGTTCA  
 GGACCACAGTAACTACCATCTTCGAGTCGACAGGAACAATGGCTCATGAAATGGGTCAAACTTTGGCATG  
 ATTCATGACTACTTGAGCTGCAAGTGTCCATCTGAAGTCTGTGTAATGGAGCAGTCACTAAGGTTCCATA  
 TGCTACAGACTTCAGCTCCTGCAGTCGTCAATTACAACAGTTTCTTGAAGAAAAATATCGCATTG  
 CCTCTTTAATAGCCCATTGCCATCAGATATCATATCCACCCAGTCTGTGGGAACCAAGTTGTTGAAATG  
 AATGAGGACTGTGACTGTGGCACACCCAAGGAGTGTACTAACAAATGCTGTGATGCAAGGACCTGTAAAA  
 TTAAGCAGGTTTCCAGTGTGCCCTGGGGAAATGCTGTGAGAAATGCCAACTTAAAAACCTGGGGTTGT  
 GTGCAGAGCAGCAAAAGATGAGTGTGATCTGCCTGAAGTGTGATGGTAAATCCAGCCACTGCCAGGT  
 GACAGATTCAGAGTCAATGGCTCCCTTGCCAAAATGGGCATGGTTACTGCTTGAAGGGCAAAATGTCCCA  
 CCCTGCAGCAGCAGTGCATGGACATGTGGGGTCCAGGAACCAAGGTTGCAAATACATCATGTTACAAGCA  
 GAATGAAGGTGGGACAAAGTACGGATACTGTGATGGAGAATGGCACACACATGCCCTGCAAAGCAAAA  
 GATGCCATGTGTGGGAAATGTTCTGTGAAGGCGGATCAGGTGATTTGCCCTGAAAGGACTTACCATAT  
 CTTTCCTGACATGTAATTTATTTGATCCTGAAGACACAAGTCAAGGAGTAGACATGGTGGCAATGGAAC  
 CAAGTGTGGAACATAACAAGGTGTGCATTAATGCTGAGTGTGTGGACATGGAGAAGACTTACAAGTCAAGC  
 AACTGCTCCTCAAAGTGAAGGGGCACGCAGTGTGTGACCATGAGCTTCAAGTGTGCAAGGAAGGAT  
 GGGCCCTCCTGACTGCGAGAATTCAGCCACAGTCTTCCACTTCTCCATCGTGGTGGCGTCTTTTCCC  
 CCTAGCAGTCATATTTGTGGTGGTTGCTATAGTGATCCAGCGCCAAAGTGCCAGAAGGAAGCAGAGGAGA  
 GTTCAGAGGCTACCATCCACCAAGGATGCCAAGCTACACAATCAGAAGTGTAGACCCCAAAGGTGAAGG  
 ATGTTCAACCCAGGAGATGAGTCAGATGAAAAAGCTCCATGTGTCTGATCTGCCCTCTGAAGAGCCGGA  
 GCCTCCACCTGATGTCCTAATCACAAGCCAAATTTCCACCACCACCAATTCCTGTTTCTTGGACCCA  
 AATGCAAAAGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001048175  
**Insert Size:** 2325 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_001048175.2](#), [NP\\_001041640.1](#)

**RefSeq Size:** 4054 bp

**RefSeq ORF:** 2325 bp

**Locus ID:** 13522

**UniProt ID:** [Q9JLN6](#)

**Cytogenetics:** 14 D1

**Gene Summary:**

This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are typically membrane-anchored, although a form of this protein may be secreted. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate a mature protein product. This protein may bind to integrins and regulate lymphocyte migration by enhancing cell adhesion. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (4) includes an alternate terminal 3' exon and its transcription extends past a splice site that is used in variant 1, resulting in a novel 3' coding region and 3' UTR compared to variant 1. The encoded isoform (4) has a distinct and shorter C-terminus, compared to isoform 1. It is not known whether this isoform (4) is proteolytically processed in the same manner as 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.