

Product datasheet for **MC222455**

Adam12 (NM_007400) Mouse Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Adam12 (NM_007400) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Adam12 |
| Synonyms: | ADAM; MI; Mltna |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC222455 representing NM_007400
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGAGCGCCCGCGCGCGCGCCCGCCCGCCCTCTGCTGGCCCTGGCTGGGGCCCTGC
 TGGCGCCCGTGCAGCCGAGGGATGAGTTTGTGGGACCAGAGAGGAACCTACGAAGTGGCCAGAGCCTC
 CCTTCTGAGCAAGGACCTGGGATCCCAGGACAGAGCATCCCAGCCAAGGATCATCCAGACGTGCTGACT
 GTGCAACTGCAGCTGGAGAGCCGAGACCTGATCCTCAGCCTGGAAGGAATGAGGGACTCATTGCCAATG
 GCTTCACGGAGACCCATTATCTGCAAGATGGTACTGATGTCTCTCTCACTCGAAATCACACGGATCATTG
 TTACTIONCATGGACATGTGCAAGGAGATGCTGCATCAGTGGTCACTCAGTACTGCTCTGGTCTCCGG
 GGACTTATCATGTTTAAAAATAAACGTACAGCTTAGAGCCAATGAAAAACCACTGACAGCTACAAAAC
 TCGTCCCAGCTGAGAGCATGACGAACATCCAAGGGCTGTGTGGGTACAGCATAACAAGTCCAACCTCAC
 CATGGAAGATGTCTCCCCTGGAACCTCTCAAATGCGGGCAAGAAGGCATAGAGAGAGACCCCTTAAGATG
 ACCAAGTACGTAGAGCTGGTTATTGTGGCAGACAACAGAGAGTTTCAGAGGCAAGGAAAAGACCTGGAGA
 AAGTTAAGCAGCGATTAATAGAGATCGCCAATCACGTTGACAAGTTTTACAGACCACTGAACATCCGGAT
 CGTGTGGTAGGAGTGGAGTGTGGAATGACATCGACAAATGCTCTATAAGCCAGGACCCATTACCACGC
 CTCCATGAGTTTCTAGACTGGAGAAAGATAAAGCTTCTACCTCGAAAATCCCACGACAATGCTCAGCTTA
 TCAGTGGGGTTTATTTCCAAGGAACCACCATCGGCATGGCACCCATCATGAGCATGTGCACTGCAGAAAC
 GTCTGGAGGAGTGTGATGGACCATTGACAGAGCCCTTGGTGGCGCAGTGACCTGGCACATGAGCTG
 GGCCACAACCTCGGGATGAACCATGACACACTGGAGAGGGGCTGCAGTGCAGAAATGGCCAGAGAAAG
 GAGGCTGCATCATGAACCCGTCACGGGTTCCCATCCCCATGGTGTTCAGCAGCTGCAGCAGGAAAG
 CCTGGAGGCTAGCCTGGAGAAGGGCATGGGGATGTGCCTTTCAACCTACCAGAGGTCAAGCAGGCCCTT
 GGGGGCCGGAAGTGTGGAATGGCTATGTGGAAGAGGGAGAAGAGTGTGACTGCGGAGAACCAGGAGAA
 GCACGAATCGCTGCTGTAACGCTACCACCTGACTCTGAAGCCAGATGCTGTGTGCGCGCACGGGAGTG
 CTGTGAAGACTGTCAGCTGAAGCCTCCAGGAATGCATGCAGGGGCTCCAGCAACTCCTGTGACCTCCCA
 GAATTCTGCACAGGGACTGCCCCCTCACTGTCCAGCCAATGTGTACCTACATGATGGCCACCCGTGTCAGG
 GCGTGGATGGTTACTGCTACAACGGCATCTGCCAGACCCATGAGCAGCAGTGTGTCACGCTCTGGGGACC
 AGGTGCTAAACCGGCTCCTGGCATCTGCTTTGAGCGAGTCAACTCTGCAGGAGATCCTTATGGTAACTGT
 GGCAAAGACTCCAAGAGCGCCTTCGCCAATGTGAGCTGAGAGATGCCAAGTGTGGGAAAATCCAGTGTG
 AAGGTGGTGAAGCCGACCTGTCATTGGTACCAATGCTGTTTCCATAGAAACAAATATCCCACAGCAGGA
 AGGAGGTCGGATTCTGTGCCGGGGACCCATGTGTACTTGGGTGATGACATGCCAGACCCAGGGCTGTG
 CTTGCAGGAACAAAGTGTGCAGAAGGAAAAATCTGCCTCAATCGTCGATGTGAGAATATCAGTGTCTTCG
 GCGTTCACAAGTGTGCCATGCAGTGCCACGGCCGAGGGGTATGTAACAACAGGAAGAATTGCCACTGTGA
 AGCCCACTGGGCTCCACCCTTCTGTGACAAGTTTGGCTTTGGAGGAAGCACAGACAGTGGTCCCATCAGG
 CAAGCAGATAACCAGGGCTTACTGTAGGAATCCTGGTGAAGTCCCTGTGCTGCTTGTGCTGGATTTG
 TGGTGTATCTCAAAGGAAGACGTTGATGCGGCTGCTGTTACACATAAAAAACCACCATGGAAAAGT
 AAGGTGTGTGACCCCTTCCCGGACACCCAGTGGCCCTCACCTTGGCCAGGCTCACACACCCCGGGAAA
 GGCTGCTGATGAACCGGGCACCATTTCAATACCCCAAGGACAGGCACTCGCTGAAATGCCAGAACA
 TGGACATCAGCAGGCCCTCGACGCTCGAGCCGTCACACAGCTTCACTACCTCAGCGAGTGTCTCTGCC
 TCTCCACAGACCCACGTGCACCCAGTGGCCCTGCCAGGCCCTGCCCGCCAGTCTGCAGTCAAGCAG
 GCCCAGGGCATTGAAAACCCAGTCTCTCAGAAGCCTCTGCCTGCTGATCCACTGAGCAGGACTTCTC
 GGCTCACTAGTGCCTTGGTGAAGACCCAGGGCAGCAGGAACCTGGGCACCGCCAGCCCCATCAGACC
 TGCCCTAAGCATCAAGTACCCAGACCTTCCACAATGCCTATATCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_007400

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| Insert Size: | 2712 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). |
| 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: | <ol style="list-style-type: none">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_007400.2 , NP_031426.2 |
| RefSeq Size: | 7675 bp |
| RefSeq ORF: | 2712 bp |
| Locus ID: | 11489 |
| UniProt ID: | Q61824 |
| Cytogenetics: | 7 F3 |
| 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, functional protein that localizes to the cell surface. About a third of the mice lacking the encoded protein die before weaning. Overexpression of the encoded protein in a mouse model of Duchenne muscular dystrophy alleviates the muscle pathology by preventing cell necrosis and inflammation. [provided by RefSeq, May 2016] |