

Product datasheet for **MR225285**

Adam12 (NM_007400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam12 (NM_007400) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR225285 representing NM_007400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAGCGCCCGCGCGCGCGCCCGCCCGCCCTCTGCTGGCCCTGGCTGGGGCCCTGC
 TGGCGCCCGTGCAGCCGAGGGATGAGTTTGTGGGACCAGAGAGGAACCTACGAAGTGGCCAGAGCCTC
 CTTCTGAGCAAGGACCTGGGATCCCAGGACAGAGCATCCCAGCCAAGGATCATCCAGACGTGCTGACT
 GTGCAACTGCAGCTGGAGAGCCGAGACCTGATCCTCAGCCTGAAAGGAATGAGGGACTCATTGCCAATG
 GCTTCACGGAGACCCATTATCTGCAAGATGGTACTGATGTCTCTCTCACTCGAAATCACACGGATCATTG
 TACTACCATGGACATGTGCAAGGAGATGCTGCATCAGTGGTCAGCCTCAGTACTTGCTCTGGTCTCCGG
 GGACTTATCATGTTTAAAAATAAACGTACAGCTTAGAGCCAATGAAAAACCACTGACAGCTACAAAC
 TCGTCCCAGCTGAGAGCATGACGAACATCCAAGGGCTGTGTGGGTACAGCATAACAAGTCCAACCTCAC
 CATGGAAGATGTCTCCCCTGGAACCTCTCAAATGCGGGCAAGAAGGCATAGAGAGAGACCCCTTAAGATG
 ACCAAGTACGTAGAGCTGGTTATTGTGGCAGACAACAGAGAGTTTCAGAGGCAAGGAAAAGACCTGGAGA
 AAGTTAAGCAGCGATTAATAGAGATCGCCAATCACGTTGACAAGTTTTACAGACCACTGAACATCCGGAT
 CGTGTGGTAGGAGTGGAGTGTGGAATGACATCGACAAATGCTCTATAAGCCAGGACCCATTACCACGC
 CTCCATGAGTTTCTAGACTGGAGAAAGATAAAGCTTCTACCTCGAAAAATCCCACGACAATGCTCAGCTTA
 TCAGTGGGGTTTATTTCCAAGGAACCACCATCGGCATGGCACCCATCATGAGCATGTGCACTGCAGAAC
 GTCTGGAGGAGTGTGATGGACCATTGACAGAGCCCTTGGTGCCGAGTGACCTTGGCACATGAGCTG
 GGCCACAACCTCGGGATGAACCATGACACACTGGAGAGGGGCTGCAGTGCAGAAATGGCCAGAGAAAG
 GAGGCTGCATCATGAACCCGTCACGCGGTTCCCATCCCCATGGTGTTCAGCAGCTGCAGCAGGAAAG
 CCTGGAGGCTAGCCTGGAGAAGGCATGGGGATGTGCCTCTTCAACCTACCAGAGGTCAAGCAGGCCCTT
 GGGGGCCGGAAGTGTGGAATGGCTATGTGGAAGAGGGAGAAGAGTGTGACTGCGGAGAACCAGGAGAA
 GCACGAATCGCTGCTGTAACGCTACCACCTGACTCTGAAGCCAGATGCTGTGTGCGCGCACGGGAGTG
 CTGTGAAGACTGTCAGCTGAAGCCTCCAGGAATGCATGCAGGGGCTCCAGCAACTCCTGTGACCTCCCA
 GAATTCTGCACAGGGACTGCCCCCTACTGTCCAGCCAATGTGTACCTACATGATGGCCACCCGTGTCAGG
 GCGTGGATGGTTACTGCTACAACGGCATCTGCCAGACCCATGAGCAGCAGTGTGTACGCTCTGGGGACC
 AGGTGCTAAACCGGCTCCTGGCATCTGCTTTGAGCGAGTCAACTCTGCAGGAGATCCTTATGGTAACTGT
 GGCAAAGACTCCAAGAGCGCCTTCGCCAATGTGAGCTGAGAGATGCCAAGTGTGGGAAAATCCAGTGTG
 AAGGTGGTGAAGCCGACCTGTCAATTGGTACCAATGCTGTTTCCATAGAAACAAATATCCCACAGCAGGA
 AGGAGGTCCGATTCTGTGCCGGGGACCCATGTGTAATGGGTGATGACATGCCAGACCCAGGGCTTGTG
 CTTGCAGGAACAAAGTGTGCAGAAGGAAAAATCTGCCTCAATCGTCGATGTGAGAATATCAGTGTCTTCG
 GCGTTCACAAGTGTGCCATGCAGTGCCACGGCCGAGGGGTATGTAACAACAGGAAGAATTGCCACTGTGA
 AGCCCACTGGGCTCCACCCTTCTGTGACAAGTTTGGCTTTGGAGGAAGCACAGACAGTGGTCCCATCAGG
 CAAGCAGATAACCAGGGCTTACTGTAGGAATCCTGGTGAATCCTGTGTCTGCTTGTGCTGGATTTG
 TGGTGTATCTCAAAGGAAGACGTTGATGCGGCTGCTGTTACACATAAAAAACCACCATGGAAAAGT
 AAGGTGTGTGACCCCTTCCCGGACACCCAGTGGCCCTCACCTTGCCAGGCTCACACACCCCGGGAAA
 GGCTGTGATGAACCGGCACACATTTCAATACCCCAAGGACAGGCACTCGCTGAAATGCCAGAACA
 TGGACATCAGCAGGCCCTCGACGCTCGAGCCGTCACACAGCTTCAAGTCACTCAGCAGTGTCTCTGCC
 TCTCCACAGACCCACGTGCACCCAGTGGCCCTGCCAGGCCCTGCCCGCCAGTCTGCAGTCAAGCAG
 GCCCAGGGCATTGAAAACCCAGTCTCTCAGAAGCCTCTGCCTGTGATCCACTGAGCAGGACTTCTC
 GGCTCACTAGTGCCTTGGTGAAGACCCAGGGCAGCAGGAACCTGGGCACCGCCAGCCCCATCAGACC
 TGCCCTAAGCATCAAGTACCCAGACCTTCCACAATGCCTATATCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225285 representing NM_007400
 Red=Cloning site Green=Tags(s)

MAERPARRAPPARALLLAGALLAPRAARGMSLWDQQRGTYEVARASLLSKDPGIPGQSIPAKDHPDVLTVQLQLESRDILSLERNEGLIANGFTEETHYLQDGTDVSLTRNHTDHCYYHGHVQGDAAASVVSSTCSGLRGLIMFENKTYSLPEPMKNTTDSYKLVPAESMTNIQGLCGSQHNKSNLTMEDVSPGTSQMRARRHKRETLKMTKYVELVIVADNREFQRQKDKLEKVKQRLIEIANHVDFYRPLNIRIVLVGVEVWNDIDKCSISQDPFTSLHEFLDWRKIKLLPRKSHDNAQLISGVYFQGTITGMAPIMSMCTAEQSGGVVMDHSDSPLGAAVTLAHELGHNFGMNHDTLERGCSCRMAAEKGGCIMPSTGFPPMFVSSCSRKDEASLEKMGMCMLFNLPEVKQAFGGRKCGNGYVEEGEECDGPEEECTNRCCNATTCTLKPDAVCAHGQCCEDCQLKPPGTACRGSSNSCDLPEFCTGTAPHCPANVYLHDGHPCQGVGVCYNGICQTHEQQCVTLWGPAGAPAGICFERVNSAGDPYGNCGKDSKSAFAKCELRDAKCGKIQCGGASRPVIGTNAVSIETNIPQQEGGRILCRGTHVYLGDDMPDPGLVLAGTKCAEGKICLNRRQNISVFGVHKCAMQCHGRGVCNRRKNCHCEAHWAPPFCDFGFGGSTDSPGPIRQADNQLTVGILVSIKLLAAGFVVYLKRKTLMRLLFTHKKTMEKLRVHPSRTPSGPHLQGAHHTPGKGLLMNRAPHFNTPKDRHSLKQCNMDISRPLDARAVPQLQSPQRVLLPLHQTPRAPSGPARPLPASPVRQAQGIKRPSPQKPLPADPLSRTSRLTSALVRTPGQQEPGHRPAPIRPAPKHQVPRPSHNAYIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

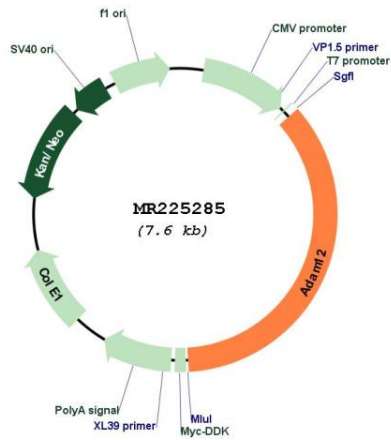


* The last codon before the Stop codon of the ORF

ACCN: NM_007400

ORF Size:	2709 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	99 kDa
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]

Product images:



Circular map for MR225285