

## Product datasheet for **MG210842**

### Adam8 (NM\_007403) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam8 (NM_007403) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam8
Synonyms:	ADAM 8; CD156; CD156a; E430039A18Rik; MS; MS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210842 representing NM\_007403  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTGGCCTCTGGCTGCTCAGCGTCTTATGGACACCAGTAGCCCTGGACCTCCTTTGCCCATGTGA  
 AACAGTATGAAGTGGTTTGGCCTCGGCGCTAGCTGCATCCCGCTCCCGCAGAGCCCTGCCCTCCACTG  
 GGGCCAGTACCCAGAGAGTCTGAGCTATGCTCTTGGGACCAGCGGGCACGTTTTTACCCTGCACCTTCGA  
 AAGAACAGGGACCTGCTGGGCTCAAGCTACACAGAGACCTACTCAGCTGCCAATGGCTCTGAGGTGACAG  
 AGCAACTGCAGGAGCAGGACCATTGCTCTACCAAGGCCATGTGGAAGGGTACGAGGGCTCAGCTGCCAG  
 TATTAGCACCTGTGCTGGCCTCAGGGGCTTTTCCGAGTTGGGTCCACTGTCCACTTGATTGAGCCTCTG  
 GATGCTGATGAAGAGGGGCAACATGCGATGTATCAGGCAAAGCATCTGCAACAGAAGGCTGGGACCTGTG  
 GGGTCAAAGATACCAACCTGAATGACCTAGGGCCTCGGCATTAGAAATATACAGGGCTCAGCCACGGAA  
 CTGGCTGATACCCAGAGAAACCCGCTATGTGGAGTTGTATGTGGTTGCAGACAGCCAAGAGTTCCAGAAG  
 TTGGGGAGCAGAGAGCCGTGCGCCAGCGAGTGCCTGGAGTTGTAACCACGTGGACAAGCTTTATCAGG  
 AACTCAGTTTTCCGAGTTGCTCTGGTGGGCTGGAGATCTGGAACAAGGACAAATCTACATCAGCCGCTA  
 TGCCAACGTGACACTGGAGAACTTCTTGTCTGGAGGGAACAGAACTTGCAAGGGCAGCACCCACATGAC  
 AACGTGCAACTTATCACGGGGTGTGATTCATTGGGAGCACTGTTGGACTGGTAAGGTGTCTGCCCTGT  
 GTTCCCGTCACTCCGGAGCTGTGAATCAGGACCACTCCAAGAATCCATTGGTGTAGCCTCCACCATGGC  
 CCATGAGCTGGCCACAACCTGGCATGAGCCATGATGAGGACATTCCAGGATGCTACTGTCTGAACCA  
 CGGGAGGGTGGTGGCTGCATCATGACCGAAAGCATCGGCTCCAAGTTCCCAGGATATTCAGCAGGTGTA  
 GCAAGATTGACCTAGAGTCATTCTGTGACAAAACCCAGACAGGCTGCCTGACCAATGTTCCAGATGTCAA  
 CCGGTTTCGTGGGTGGCCCTGTGTGTGAAACCTGTTTGTGGAGCATGGAGAGCAGTGTGACTGTGGCACA  
 CCTCAGGACTGTCAAACCCCTGCTGCAATGCCACCACTTGCCAGCTGGTCAAGGGGCGAGAGTGTGCCA  
 GTGGTACCTGTTGTATGAATGCAAGGTGAAGCCAGCTGGAGAGGTGTGTCGTCAGTAAGGACAAATG  
 TGACCTGGAGGAGTTCTGTGATGGCCGGAAGCCAACATGTCCCGAAGATGCCTTCCAACAGAATGGCACT  
 CCCTGCCAGGGGCTACTGCTTTGATGGGAGCTGTCCACCCCTGGCACAGCAGTCCCGGGATCTGTGGG  
 GGCCAGGTGCTCGGGTAGCAGCCGACTCCTGCTATACCTTTAGCATCCCTCCGGGCTGCAATGGGAGGAT  
 GTACTCTGGCAGGATCAACCGGTGTGGAGCGCTGTACTGTGAGGGAGGCCAGAAGCCCTTGAACGCTCC  
 TTCTGCACTTTCTCCTCCAACCATGGAGTCTGCCATGCTCTTGGCACAGGCAGCAACATTGACACCTTTG  
 AGCTGGTATTGCAGGGCACCAAGTGCAGAGGAGGAAAGGTTTGCATGGATGGAAGCTGCCAGGACCTCCG  
 TGTATACAGATCTGAAAACCTGCTCTGCTAAATGCAACAACCATGGGGTATGCAACCACAAGAGGGAGTGC  
 CACTGTACAAGGGCTGGGCACCACCAACTGTGTACAGCGGCTGGCAGATGTATCAGATGAACAAGCAG  
 CGTCTACGAGCCTCCAGTCAAGTGTGGTTGTGGTCTTGGTGTATCCTGGTGGCTGCGATGGTCATCGTGGC  
 AGGCATCGTCATCTACCGAAAGGCTCCGAGACAAATCCAGAGGAGGAGTGTGGCACCCAAGCCTATCTCG  
 GGGCTCTCAACCCCTATTCTACACAAGGGACAGCAGCCTGCCAGCTAAGAACAGGCCTCCAGACCCCT  
 CTGAGACAGTTTCTACCAACCAGCCCCAAGACCCATAGTGAAACCAAGAGGCCCTCCCCCTGCACCTCC  
 AGGTGCTGTCCAGTTCACCACTCCAGTTCCTGTTTATGCCCAAAGATACCAATCAGTTTAGACCT  
 GATCCTCCCAACCAAGCCCTCCAGAGCTGAAACCAAGCAGGTCAAGCCAACCTTTGACCCCCGACAC  
 CACCAGTCAAGCCCGGGACTGGAGGACGGTGCCTGGAGCAACTCAGGGAGCTGGTGGGCCAAAGGTTGC  
 TCTGAAGGTCCCATCCAGAAGAGG

**ACGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210842 representing NM\_007403  
Red=Cloning site Green=Tags(s)

MLGLWLLSVLWTPVAPGPPLPHVKQYEVVWPRRLAASRSRRALPSHWGQYPELSYALGTSGHVFTLHLR  
KNRDLLGSSYTETYSAAANGSEVTEQLQEQDHCLYQGHVEGYEGSAASISTCAGLRGFFRVGSTVHLIEPL  
DADEEQHAMYQAKHLQKAGTCGVKDTNLDLGPRALEIYRAQPRNWLIPRETRYVELYVVADSQEFQK  
LGSREAVRQRVLEVVNHVDKLYQELSFRVVLVGLEIWNKDKFYISRYANVTLENFLSWREQNLQGQHPHD  
NVQLITGVDFIGSTVGLAKVSALCSRHS GAVNQDHSKNSIGVASTMAHELGHNLGMSHDEDIPGCYCPEP  
REGGGCIMTESIGSKFPRIFSRCSKIDLESFVTKPQTGCLTNVPDVNRFVGGPVCGNLFVEHGEQCDCGT  
PQDCQNPCNATTQQLVKAECASGTCHECKVKPAGEVCRLSKDKCDLEEFCDGRKPTCPEDAFQQNGT  
PCPGGYCFDGS CPTLAQQCRDLWPGARVAADSCYTF SIPPGCNGRMYSGRINRCGALYCEGGQKPLERS  
FCTFSSNHGVCHALGTGSNIDTFELVLQGTKCEEKVCMDGSCQDLRVYRSENC SAKCNNHGVCNHHKREC  
HCHKGWAPPNCVQRLADVSDEQAAS TSLPVSVVVVLVILVAAMVIVAGIVIYRKAPRQIQRRSVAPKPI S  
GLSNPLFYTRDSSLPAKNRPPDPSETVSTNQPPRPVVKPKRPPPAPP GAVSSSPLVPVYAPKIPNQFRP  
DPPTKPLPELKPQVKTFA PPTPPVKPGTGGTVPGATQGAGGPKVALKVPIQKR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

**Cloning Scheme:**

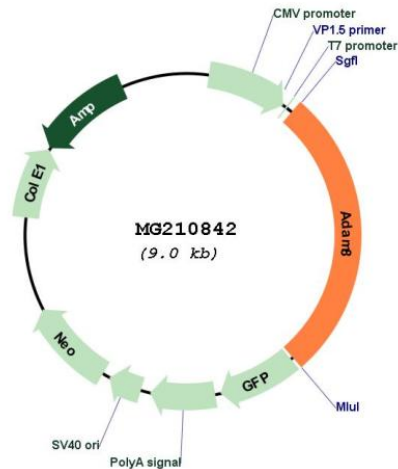
Cloning sites used for ORF Shutting:



*EcoRI*
*BamHI* *KpnI*
RBS
Kozac  
Consensus
*SgfI*
*AscI*  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

*HindIII*
*NheI* *RsrII*
*MluI*
*NotI*
*XhoI*
GFP Tag  
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
T R T R P L E M E S D - - -

*PmeI*
*FseI*  
 --- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
 - - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_007403

**ORF Size:** 2475 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:**

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\\_007403.2](#), [NP\\_031429.1](#)

**RefSeq Size:** 3034 bp

**RefSeq ORF:** 2481 bp

**Locus ID:** 11501

**UniProt ID:** [Q05910](#)

**Cytogenetics:** 7 F4

**Gene Summary:** This gene encodes a member of the Adam family of proteins that contain the disintegrin and metalloprotease domains. The encoded protein is localized to the cell surface, where it is involved in the remodeling of extracellular matrix and cell migration. Mice lacking the encoded protein display persistent inflammation upon treatment with allergens. Alternative splicing of this gene results in multiple variants. [provided by RefSeq, Mar 2015]