

Product datasheet for **MG222929**

Adam19 (NM_009616) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam19 (NM_009616) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam19
Synonyms:	AL024287; MADDAM; Mlt; Mltnb; MTLNB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222929 representing NM_009616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGGGCGCGGGCGTTCGCCGGTCTGCTTCTGCTGCTCTCGCTCTGCAGCTACATTGGCCGCTGG
 CGGCGTGCAGCCGGGATGGACCACAAGAGGAAGCCAAGAAGGTAGCCCTCCGCTACAGCATGAACATCAT
 AATACCTCAGTGGCGGACTTCAGAAAGCCCTGGGAGAGGAAAGCATCCACTCAGAGCAGAGCTCAGGGTC
 ATGGCTGAAGGGCGAGAGCTGATCCTAGACCTGGAGAAGAACGAGCACCTTTTGTCCAGCCTACACAG
 AAACCTGTACTACTGCAAGTGGCAATCCTCAAACCAGCACGCTGAAGTCTGAGGATCACTGCTTTTACCA
 CGGACTGTGAGGGACGTGGATGAGTCCAGTGTACGCTCAGCACCTGCCGGGAATTAGAGGACTGATT
 ATAGTGAGAAGTAACCTCAGCTACATCATCGAGCCCGTCCCTAACAGCGACAGCCAACACCGTATTTACA
 GATCCGAACATCTCAGCTGCCCGGGGAAGTGTGGTTCGAGCACTCCGGGCCACCTCGAAGGACTG
 GGCCCTTCAGTTACACATCAGACAAAAAGCAACCTCGCAGAATGAAACGGGAAGATCTACTCTATG
 AAGTACGTGGAGCTTTACCTGGTGGCTGATTATGCAGAGTTTCAGAAGAAATCGACATGACCAGGATGCCA
 CCAAACGCAAGCTCATGGAGATTGCCAACTATGTTGATAAGTTTTACCGCTCCCTGAACATCCGAATTGC
 ACTTGTCCGCTTGGAGGTGTGGACGCATGGGGATAAGTGTGAAGTTTCAGAGAATCCCTACTCTACCCTC
 TGGTCTTTCTTGTAGTGGAGGCGCAAGCTGCTTGTCTCAGAAGAGCCATGACAATGCTCAGCTAATCACGG
 GCAGGTCTTCCAAGGCACCACCTGGCTGGCCCCCTCATGGCCATGTGCTCCGTGTACCAGTCTGG
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 AACTTTGGCATGAGCCATGATTCTGCACACTGCTTCTGCCAGTGCAGCCGATGGCGGCTGCATCATGG
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 GCAGACAGGAGGAGGGATGTGTCTCTCCAACATGCCGGACACTAGGACCGTGTATGGAGGCCGGAGGTGT
 GGCAACGGGTACCTGGAAGACGGTGAAGAATGTGACTGTGGAGAAGAGGAGGAATGTAAGAACCCTTGT
 GCAATGCCTCCAAGTGCCTCTGAAGGAAGGGGAGAGTGTGCCATGGTTCCTGCTGCCACCAGTGCAA
 GCTGGTGGCTCCTGGAACCCAGTGTGGGAGCAGGTTCCGCAATGTGACCTCCCCGAGTTCTGCACCGGC
 AAGTCTCCCCACTGCCCCACCACTATTATCAGATGGATGGCACCCCTGCGAGGGTGGCCAGGCCACT
 GCTACAACGGCATGTGCCTCACTTACCAGGAACAGTGCACGAGCTGTGGGGACCTGGAGCCCGGCTGC
 CCTCGATCTTTGCTTTGAGAGGGTGAATGCTGCTGGTGCACCTATGGAACTGTGGCAAGGGCTTGAAT
 GGCCAATACAGGAAGTGCAGTCCAGGGATGCCAAGTGTGGGAAGATTCAGTGCCAGAGCACCCAGGCC
 GGCCCTTGAATCCAACGCAGTATCTATTGACACCACCATCACCTTGAACGGGAGGCGGATCCACTGTG
 GGGCACCCACGTCTACCGGGTCTGAGGAGGAGGAAGGGGAAGGTGACATGCTGGACCCAGGGCTGGT
 ATGACTGGAACCAAGTGTGGCCACAACCATATTTGCTTCGAGGGGAGTGCAGGAACACCTCCTTCTTTG
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 GTTCAGTTGTCCCTTTCAGGGTATCTCAGAGTGGTGGAACTGGCCATGCCAACCAACTTTCAAGTTGCAG
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 GGCCCCCTCCAGACTACCTGCGGTTGAATCGCCACCTGCACCATTGCCGACATCTGAACAGGGCTGC
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 CCCATGCCCTGCACCTAACTGCCTACTGTCCCAGGACTTCTCCAGGCTCGACCACCTCAGAAGGCAC
 TCCCAGCAATCCGGTGCAGGCCAAAGGACCGGTCCCAGGTCAAGGAGCACCTCCCTGCTTCAAGCCCC
 TACTTCTGGTCTCAGCCCCCAGGCTCCAGCAGTGCCTGTTCCAAAGTACCCGAGTACCGATCACAG
 AGGGTTGGAGCAATAATTAGCTCAAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222929 representing NM_009616
 Red=Cloning site Green=Tags(s)

MPGRAGVARFCLLALALQLHWPLAACPEGWTTTRGSQEGSPPLQHELIIIPQWRTSESPGRGKHPLRAELRV
 MAEGRELILDLEKNEHLFAPAYTETCYTASGNPQTSTLKSEDHCFYHGTVRDVEDSSVTLSTCRGIRGLI
 IVRSNLSYIIIEPVPNSDSQHRIYRSEHLTLPNGCGFEHSGPTSKDWALQFTHQTKKQPRRMKREDLHSM
 KYVELYLVDYAEFQKNRHDQDATKRKLMEIANVYDKFYRSLNIRIALVGLVWTHGDKCEVSENPYSTL
 WSFLSWRRKLLAQKSHDNAQLITGRSFQGTIIGLAPLMAMCSVYQSGGVSMDHSENAIGVASTVAHEIGH
 NFGMSHDSAHCCSASAADGGCIMAATGHPFPKVFSWCNRKELDRYLQTGGGMCLSNMPDTRTLYGRRRC
 GNGYLEEDGEEDCGEEECNPNCCNASNCTLKEGAECAHGCCHQCKLVAPGTQCREQVRQCDLPEFCTG
 KSPHCPTNYYQMDGTPCEGGQAYCYNGMCLTYQECCQLWGPGARPALDLCFERVNAAGDTYGNCGKGLN
 GQYRKCSPRDAKCGKIQCQSTQARPLESNAVSIDTTITLNGRIHCRGTHVYRGPEEEEEEGDMLDPGLV
 MTGKTKGHNHICFEGQCRNSSFETEGCGKKNHGVCNKNKCHCFPGWSPPFCNTPGDGGSVDSGPLP
 PKSVGPVIAGVFSALFVLAVLVLLCHCYRQSHKLGKPSALPFKLRHQFSCPFVRSQSGGTGHANPTFKLQ
 TPQGRKVTNTPESLRKPSHPPRPPDYLRVESPPAPLPAHLNRAAGSSPEAGARIERKESARRPPPSR
 PMPPAPNCLLSQDFSRPRPPQKALPANVPVPGQRTGPRSGGTSLLPPTSGPQPPRPPAVPVKLPYRSQ
 RVGAISSKI

TRTRPLE - GFP Tag - V

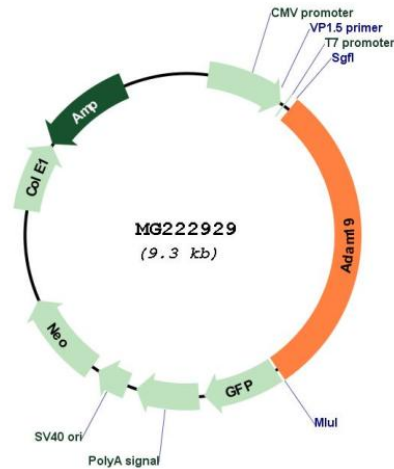
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_009616

ORF Size: 2760 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_009616.4](#), [NP_033746.1](#)

RefSeq Size: 6388 bp

RefSeq ORF: 2763 bp

Locus ID: 11492

UniProt ID: [O35674](#)

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]