OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG216658

Adam24 (NM_010086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Adam24
Synonyms:	Dtgn; Dtgn5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG216658 representing NM_010086
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGCTATGAGTGAGGCTCTGGTTCATGCAAGGATCACTCTCCTTCAGGCATGGTTGAGGATGCTGC
TCTTTTCTTCTGTATGGCCCCCGACTTGGTGTGCTGAATACAAAGGCCCTCCAGAGACAGTGAAACCCTT
GAGGGTAATTGTCTCTAGTAAAGACATGAGTCTTGCAGGCTGGATGTCCTATAGTCTGTACTTTGGAGGC
CAGAGACACATTATCTCCATGAAATCCAAGAATTTTTTGGAATCCAGACAGCTCCCTGTGTTCACATACA
ATGACCAAGGTGTCCTCTTTGAGGACAGACCTTTTGTCCAAAATGACTGTTATTATCTTGGTTTTGTGGA
TGGAGATCTAGAATCCATGGCTGCTCTTACCACCTGTTTTGGGGGCTTTCAAGGAATATTACAGATAAAT
GACACAGCTTATGAAATTAAGCCCAAGAGCCCCTCTTCCACATTTGAACATCTGCTTTACAAGCTAGACA
GTGAGAAAACTCAATTACGCCCCATGAGATGTGGATTAACAGATGAAGAAATAGAAGGGCAAGTGAGACT
TCAAGAAAATGGTAAGTCCACTAGAATGCAAAGCATCTATGGGTCATGGTGGTCTCATGGATTGTATATT
AAACTGGCATTGGTTATAGACCATGAACAATACCTTTATCGAAAAAAAAATACTTCTCTTGTGATAAGAG
ATGTATTAAGCATTATGCAGGGAATAAATCTCTTCTTACTTTCAGTGGATATTAATGTGGTTTTACTTGG
ACTTACTATCTGGACTAATGGAAATCCTATACCAGTGCAAGATATATATGCTCTTTTGCCAGCATTTTGT
ACGTGGAAGGGAACAAACCTTGATTCTCAGATACCATATGATATTGCACATCTCTTTGTGAATTATACTT
TTAGTAACTATTTTGGCATAGCCTATGTAGGAACTGTATGTGATAAGACATTTGGTTGTGGAATTGATAG
TATCGCTGAAGATGATTTCCTTACCATTGGACATATTGTGGCACATGAGATAGGTCACAATTTGGGCATG
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AAAAACTCAGCAACTGTAGTTATGAAGTCTTGTGGGCACACATGATCAATAAAAGCTGCATACATAGAGA
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GACTGTGGAAGCTCTGAAAACTGTAGACGTAATCGCTGTTGTATGCCTAGCTGTACTCTGAGGTCTAAAG
CTAAATGTGATACTGGACTATGTTGTAACCACAAATGCCAAATCCAGCCATCTGGCACTCTGTGTAGAGC
TCGGGAGAATGAATGTGACCTTCCAGAATGGTGCAATGGAACCTCACATGAGTGCCCTGAAGACTTGTTT
GTACAGGATGGGACCTCTTGCCCTGGTGATGGCTACTGCTATGAAAAAAGATGTAACAGCCACGATGTCC
ACTGTCAGAGAGTTTTTGGCCAGCTTGCCATGAAAGCATCGGATAGCTGTTACAAGGAACTCAATACTCG
TGGTGATCGTTTTGGTAACTGTGGCTTCATAAACAACGAGTATGTGAGATGTGAGATCTCAGACATCCTC
TGTGGGAGGATTCAATGTGACAAAGTGGGAACACTTCCTATCCTGCAGAATCATTATACTATTCACTGGA
CTCATTTTAATAGTGTTTCCTGCTGGAGTACTGACTACCATTTGGGGATGAAAATTACTGACCTCGGTGA
CATAAAAGATGGCACAAACTGTGGTCCACAGCATGTGTGCATTGACAGAAAGTGTGTTAATAAGCCAAGT
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GTGATGTTGGCTGGAGCCCACCAAACTGCCAGGAAACTGGCACCGGAGGAAGTATTGACAGTGGTTCTCC
TGGAAACGAAGTCTATGAAGATGAAGTTGTGAGCAAGAAGGATGCCCCAGAAAAACCTAACGTCATAATT
TGGTTATTACCTATTATTTGTGTGGCTGTAGTTTTATCTGTATTGTTTTGCTTGTCTGGGGCCACTAAAA
AATCACGTGAAGCAGCAGCAAGTCAACCAGCAGGAGAGACAGTTAAACCACCATATGAAGGGGCTGAACC
CTCATATGAGACAGTTAAACCACCGGATGAATGGGCTAACCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

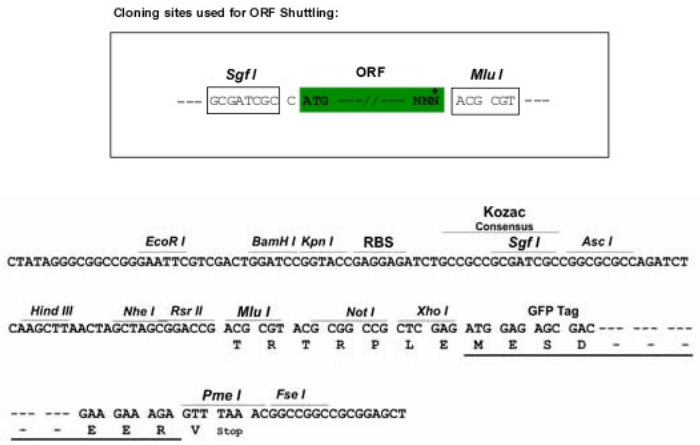
>MG216658 representing NM_010086
Red=Cloning site Green=Tags(s)

MVAMSEALVHARITLLQAWLRMLLFSSVWPPTWCAEYKGPPETVKPLRVIVSSKDMSLAGWMSYSLYFGG
QRHIISMKSKNFLESRQLPVFTYNDQGVLFEDRPFVQNDCYYLGFVDGDLESMAALTTCFGGFQGILQIN
DTAYEIKPKSPSSTFEHLLYKLDSEKTQLRPMRCGLTDEEIEGQVRLQENGKSTRMQSIYGSWWSHGLYI
KLALVIDHEQYLYRKKNTSLVIRDVLSIMQGINLFLLSVDINVVLLGLTIWTNGNPIPVQDIYALLPAFC
TWKGTNLDSQIPYDIAHLFVNYTFSNYFGIAYVGTVCDKTFGCGIDSIAEDDFLTIGHIVAHEIGHNLGM
SHDGILCTCGEESCLMSATMDSSQKLSNCSYEVLWAHMINKSCIHREPRPSDIFQLKVCGNGIVEEGEQC
DCGSSENCRRNRCCMPSCTLRSKAKCDTGLCCNHKCQIQPSGTLCRARENECDLPEWCNGTSHECPEDLF
VQDGTSCPGDGYCYEKRCNSHDVHCQRVFGQLAMKASDSCYKELNTRGDRFGNCGFINNEYVRCEISDIL
CGRIQCDKVGTLPILQNHYTIHWTHFNSVSCWSTDYHLGMKITDLGDIKDGTNCGPQHVCIDRKCVNKPS
WVNDCTPETCNMKGVCNNKQHCHCDVGWSPPNCQETGTGGSIDSGSPGNEVYEDEVVSKKDAPEKPNVII
WLLPIICVAVVLSVLFCLSGATKKSREAAASQPAGETVKPPYEGAEPSYETVKPPDEWANP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010086

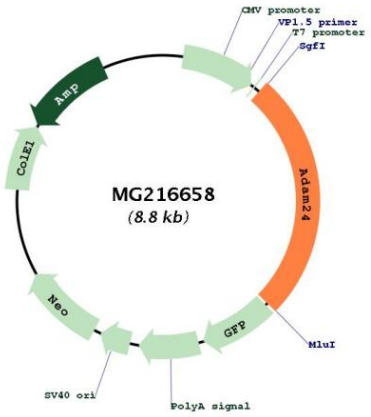
ORF Size: 2283 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_010086.1
RefSeq Size:	2870 bp
RefSeq ORF:	2286 bp
Locus ID:	13526
UniProt ID:	Q9R160
Cytogenetics:	8 A4
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. This gene is expressed in a regulated fashion during spermatogenesis. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional metalloprotease enzyme. Male mice lacking the encoded protein exhibit reduced fertility due to the higher incidence of polyspermic embryos. This gene is located adjacent to other ADAM genes on chromosome 8. [provided by RefSeq, May 2016]

Product images:



Circular map for MG216658