

Product datasheet for **MG221836**

Adam2 (NM_009618) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam2 (NM_009618) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam2
Synonyms:	AI323749; Ftn; Ftnb; Ph30-be; Ph30-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG221836 representing NM_009618
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTCATCTTGCTTCTACTGAGTGGGCTGAGTGAACCTGGCGGCCCTTAGCCAGTCCCAACAGAAG
 GCACTCGTGAGAAATTACACGTGCAAGTCACAGTGCCAGAGAAAAATCCGGTCCGTACAAGCAATGGCTA
 CGAAACACAGGTGACCTACAATCTCAAAATCGAAGGGAAAAACATACACCTTGACCTAATGCAAAAACCG
 TTCTTGCCTCCCAACTTTAGAGTATACAGTTATGACAACGCAGGAATCATGAGGTCTCTTGAGCAGAAGT
 TTCAGAATATCTGCTACTTCCAAGGATACATTGAAGGTTATCCAATTCTATGGTGATTGTTAGCACATG
 TACTGGACTCAGGGGTTTTCTCCAATTTGGAAACGTTAGCTATGGAATTGAACCTCTGGAATCTCCAGT
 GGTTTTGAACACGTGATCTACCAAGTGGAACTGAGAAAGGAGGTGCATTACTCTACGCCGAGAAGGATA
 TCGATTTAAGAGACTCGCAGTATAAGATACGAAGTATCAAGCCACAGCGGATCGTCTCTCACTATTTGGA
 AATACATATTGTCGTTGAAAAGCAAATGTTTGAGCATATCGGGGCTGATACAGCCATTGCTACTCAAAG
 ATTTTCCAGTTGATTGGACTGGCAAATGCATCTTTGCCCCCTTAACTTACAGTAATTCTGTCTTCCC
 TGGAAATTTGGATGGATGAAAACAAAATCTTGACCACAGGCGATGCTAACAAAGTTGCTCTACAGTTCTT
 GAAGTGGAAACAGTCGTACCTTGTCTGCGACCACATGATATGGCGTTTTTACTCGTCTACAGGAACACT
 ACCGATTATGTTGGCGCTACCTATCAAGGGAAGATGTGTGACAAGAACTATGCAGGAGGAGTTGCTTTGC
 ACCCCAAGCCGTAACCTGGAATCACTTGCAATATTTTAGTTACAGTCTGCTGAGCCTCAGCATGGGGCT
 AGCGTATGACGACGTGAACAAGTGCCAGTGTGGCGTACCTGTCTGCGTGATGAACCCGGAAGCGCCTCAC
 TCCAGCGGTGTCGGGGCCTTCAGTAACGCAGCATGGAGGACTTTTCCAAGTTTATCACAAGTCAAAGCT
 CCCACTGTCTGCAGAACCAGCCACGGCTACAGCCATCTTACAAGATGGCGGTCTGTGGAAATGGAGAGGT
 GGAAGAAGATGAAATTTGCGACTGTGAAAAGAAGGGCTGTGCAGAAATGCCCCCGCCATGCTGTAACCCC
 GACACCTGTAAGCTGTCAGATGGCTCCGAGTGCTCCAGCGGAATATGCTGCAACTCGTGCAAGCTGAAGC
 GGAAAGGGGAGGTTTGCAGGCTTGCCCAAGATGAGTGTGATGTCACAGAGTACTGCAACGGCACATCCGA
 AGTGTGTGAAGACTTCTTTGTTCAAACGGTCACCCATGTGACAATCGCAAGTGGATCTGTATTAACGGC
 ACCTGTCAGAGTGGAGAACAGCAGTGCCAGGATCTATTTGGCATCGATGCAGGCTTTGGTTCAAGTGAAT
 GTTTCTGGGAGCTGAATCCAAGAGCGACATATCTGGGAGCTGTGGAATCTCTGCTGGGGGATACAAGGA
 ATGCCACCTAATGACCGGATGTGTGGGAAAATAATATGTAATACCAAAGTAAAAATACTAAAATTG
 AGGTCTGCCACTGTTATTTATGCCAATAAAGCGGGCATGTCTGCGTTTTCCCTGGAATATCCCAAGGTC
 ATAATGAGAGCCAGAAGATGTGGGTGAGAGATGGAACCGTCTGCGGGTCAAATAAGGTTTCCAGAAATCA
 AAAATGTGTAGCAGACACTTTCTTGGGCTATGATTGCAACCTGGAAAAATGCAACCACCATGGTGTATGT
 AATAACAAGAAGAACTGCCACTGTGACCCACATACTTACCTCCAGATTGTAAGAAGTAAAGATTGAT
 ATCCTGGCGGGAGCATTGATAGTGGCAACAAGGAAAGGGCTGAACCCATCCCTGTACGGCCCTACATTGC
 AAGTGCTTACCGCTCCAAGTCTCCACGGTGGCCATTTTCTTGATCATCCCTTTCTACGTTGTGATCCTT
 GTCCTGATTGGGATGCTGGTAAAAGTCTATCCCAAAGGATGAAATGGAGAATGGATGACTTCTCAAGCG
 AAGAGCAATTTGAAAGTAAAAGTGAATCCAAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221836 representing NM_009618
 Red=Cloning site Green=Tags(s)

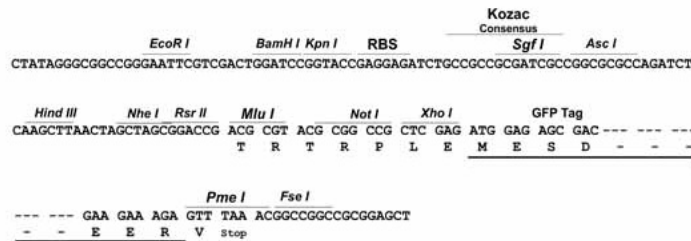
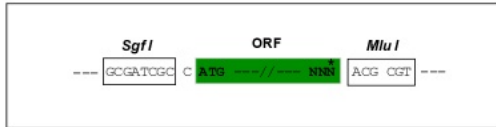
MWLILLLLSGLSELGGLSQSQTEGTREKLHVQVTVPEKIRSVTSNGYETQVTYNLKEGKTYTLDLMQKP
 FLPPNFRVYSYDNAGIMRSLEQKFQNICYFQGYIEGYPNSMVIVSTCTGLRGFLQFGNVSYGIEPLESS
 GFEHVIYQVEPEKGGALLYAEKDIDLDRDSQYKIRSIKQRIVSHYLEIHIIVVEKQMFHEIGADTAIVTQK
 IFQLIGLANAIFAPFNLTVILSSLEFWM DENKILTTGDANKLLYRFLKWKQSYLVLRPHDMAFLLVYRNT
 TDYVYGATYQGMCDKNYAGGVALHPKAVTLESLAIIILVQLLSL SMGLAYDDV NKCCQCGVPVCMNPEAPH
 SSGVRAF SNCSMEDFSKFITSQSSHCLQNQPRLOPSYKMAVCGNGEVEEDEICDCGKKGCAEMPPCCNP
 DTCKLSDGSECSSGICCNCSCKLKRKGEVCR LAQDECDVTEYCNGTSEVCEDFVQNGHPCDNRKWICING
 TCQSQEQQCDLFGIDAGFGSSECFWELNSKSDISGSCGISAGGYKECPPNDRMCGKIICKYQSENILKL
 RSATVIYANISGHVCSLEYPQGHNESQKMWVRDGTVCGSNKVCQNKCVADTFLGYDCNLEKCNHHGVC
 NNKNCHCDPTYLPPDCKRMKDSYPGGSIDSGNKERAEPVPRPYIASAYRSKSPRPWFFLIIPFYVVIL
 VLI GMLVKVYSQRMKWRMDDFSSEEQFESESESKD

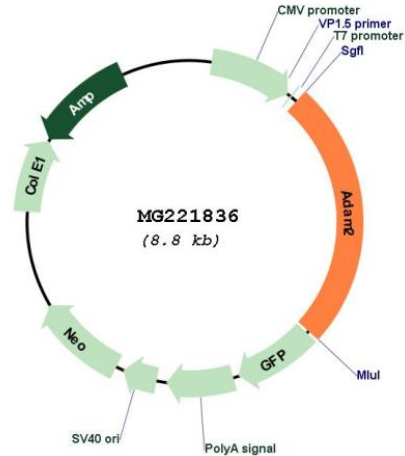
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_009618

ORF Size: 2205 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_009618.3](#), [NP_033748.2](#)

RefSeq Size: 2551 bp

RefSeq ORF: 2208 bp

Locus ID: 11495

UniProt ID: [Q60718](#)

Cytogenetics: 14 34.36 cM

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 predominantly expressed in the epididymis, where the encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. Male mice lacking the encoded protein are infertile and exhibit multiple defects in reproduction. [provided by RefSeq, May 2016]