

Product datasheet for **MR221836**

Adam2 (NM_009618) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam2 (NM_009618) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam2
Synonyms:	AI323749; Ftn; Ftnb; Ph30-be; Ph30-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221836 representing NM_009618
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGCTCATCTTGCTTCTACTGAGTGGGCTGAGTGAACCTGGCGCCCTTAGCCAGTCCCAACAGAAG
 GCACTCGTGAGAAATTACACGTGCAAGTCACAGTGCCAGAGAAAAATCCGGTCCGTACAAGCAATGGCTA
 CGAAACACAGGTGACCTACAATCTCAAAATCGAAGGGAAAAACATACACCTTGACCTAATGCAAAAACCG
 TTCTTGCCTCCCAACTTTAGAGTATACAGTTATGACAACGCAGGAATCATGAGGTCTCTTGAGCAGAAGT
 TTCAGAATATCTGCTACTTCCAAGGATACATTGAAGGTTATCCAATTCTATGGTGATTGTTAGCACATG
 TACTGGACTCAGGGTTTTCTCCAATTTGGAAACGTTAGCTATGGAATTGAACCTCTGGAATCTCCAGT
 GGTTTTGAACACGTGATCTACCAAGTGGAACTGAGAAAGGAGGTGCATTACTCTACGCCGAGAAGGATA
 TCGATTTAAGAGACTCGCAGTATAAGATACGAAGTATCAAGCCACAGCGGATCGTCTCTCACTATTTGGA
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 ATTTTCCAGTTGATTGGACTGGCAAATGCTATCTTTGCCCCCTTAACTTACAGTAATTCTGTCTTCCC
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 AGCGTATGACGACGTGAACAAGTGCCAGTGTGGCGTACCTGTCTGCGTGATGAACCCGGAAGCGCCTCAC
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 GTTTCTGGGAGCTGAATCCAAGAGCGACATATCTGGGAGCTGTGGAATCTCTGCTGGGGGATACAAGGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221836 representing NM_009618
Red=Cloning site Green=Tags(s)

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MWLI L L L L S G L S E L G G L S Q S Q T E G T R E K L H V Q V T V P E K I R S V T S N G Y E T Q V T Y N L K I E G K T Y T L D L M Q K P
F L P P N F R V Y S Y D N A G I M R S L E Q K F Q N I C Y F Q G Y I E G Y P N S M V I V S T C T G L R G F L Q F G N V S Y G I E P L E S S
G F E H V I Y Q V E P E K G G A L L Y A E K D I D L R D S Q Y K I R S I K P Q R I V S H Y L E I H I V V E K Q M F E H I G A D T A I V T Q K
I F Q L I G L A N A I F A P F N L T V I L S S L E F W M D E N K I L T T G D A N K L L Y R F L K W K Q S Y L V L R P H D M A F L L V Y R N T
T D Y V G A T Y Q G K M C D K N Y A G G V A L H P K A V T L E S L A I I L V Q L L S L S M G L A Y D D V N K C Q C G V P V C V M N P E A P H
S S G V R A F S N C S M E D F S K F I T S Q S S H C L Q N Q P R L Q P S Y K M A V C G N G E V E E D E I C D C G K K G C A E M P P P C C N P
D T C K L S D G S E C S S G I C C N S C K L K R K G E V C R L A Q D E C D V T E Y C N G T S E V C E D F F V Q N G H P C D N R K W I C I N G
T C Q S G E Q Q C Q D L F G I D A G F G S S E C F W E L N S K S D I S G S C G I S A G G Y K E C P P N D R M C G K I I C K Y Q S E N I L K L
R S A T V I Y A N I S G H V C V S L E Y P Q G H N E S Q K M W V R D G T V C G S N K V C Q N Q K C V A D T F L G Y D C N L E K C N H H G V C
N N K N C H C D P T Y L P P D C R M K D S Y P G G S I D S G N K E R A E P I P V R P Y I A S A Y R S K S P R W P F L I I P F Y V V I L
V L I G M L V K V Y S Q R M K W R M D D F S S E E Q F E S E S E S K D
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_d07.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_009618

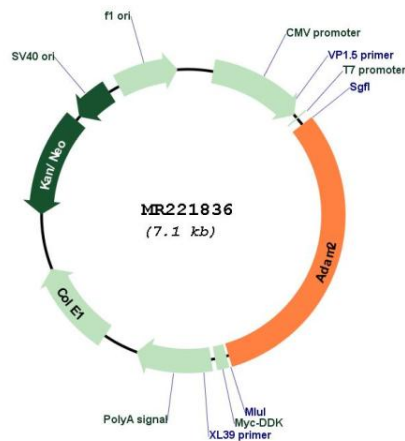
ORF Size: 2205 bp

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
- MW:** 82.8 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. 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]

Product images:



Circular map for MR221836