

Product datasheet for **MG222532**

Adam15 (NM_001037722) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam15 (NM_001037722) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam15
Synonyms:	AD56; MDC15; metar
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222532 representing NM_001037722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCTGGCGTCTCTGGGCTCTGGGACTCCTGGGCGGGCAGCCCTCGGCCCTCCCCCGCTGC
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 TC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

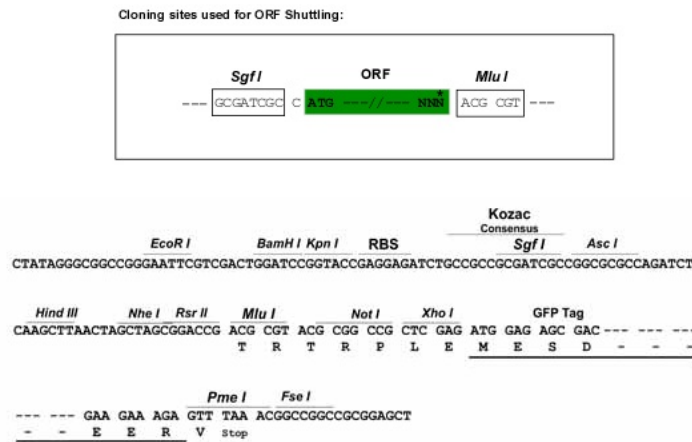
Protein Sequence: >MG222532 representing NM_001037722
 Red=Cloning site Green=Tags(s)

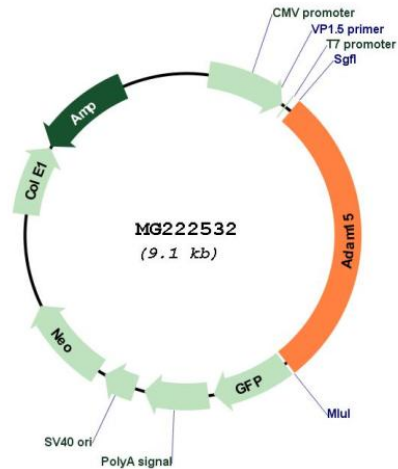
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 RGLIVLSPERGYTLELPGDQLQRPVISRIDHLLGHTCAPSWHASVPTRAGPDLLEQHHAHRLKRDVV
 TETKIVELVIVADNSEVRKYPDFQQLNRTLEAALLDFTFFQPLNVRVALVGLEAWTQHNL IEMSSNPV
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 PSRPLPPNPVPKLQAALADRSNPPTRPLPADPVVRRPKSQGPTKPPPRKPLPANPQGQHPGDLPGPG
 DGSLPLVPSRPAPPPAASSLYL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001037722

ORF Size: 2592 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_001037722.3](#)

RefSeq Size: 3006 bp

RefSeq ORF: 2595 bp

Locus ID: 11490

UniProt ID: [O88839](#)

Cytogenetics: 3 39.07 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 prominently expressed in vascular cells, the endocardium, hypertrophic cells in developing bone, and specific areas of hippocampus and cerebellum. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. Mice lacking the encoded protein have increased bone mass resulting from osteoblast proliferation, and exhibit reduced neovascularization in a mouse model for retinopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing. [provided by RefSeq, May 2016]