

## Product datasheet for **MG207150**

### Adam15 (BC009132) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam15 (BC009132) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam15
Synonyms:	MDC15, metargidin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207150 representing BC009132  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGGCTGGCGTGCTCTGGGCTCTGGGACTCCTGGGCGGGCAGCCCTCGGCCCTCCCCCGCGCTGC  
 CAAATATAGGAGGCACTGAGGAAGAGCAGCAAGCCAGCCAGAGAGGACGCTGAGTGGATCCATGGAGAG  
 CCGGGTTGTTCCAGGACAGCCCCCAATGAGCCTAGCAGACGTGCTTCAGACTGGTTTACCTGAGGCCCTG  
 AGGATTTCTTGGAGCTGGACAGTGAGAGTCATGTCTGGAGCTTCTACAAAATAGAGATCTAATCCCTG  
 GCCGCCAACTCTGGTGTGTACCAGCCTGATGGCACCAGCAATGGTCAGCGAGGGCTACAGTCTAGAAAA  
 CTGCTGTACCGAGGACGAGTGCAGGGCCACCCAGCTCCTGGGTGTCCCTCTGTGCCTGCTCTGGGATC  
 AGGGGGCTCATTGCTGTCCCCAGAGAGAGGCTATACTGGAGCTGGGCCCTGGGGACCTTCAGCGTC  
 CTGTCAATTTCTCGGATCCAAGACCCTGTTGCTGGGCCACACCTGTGCCCAAGCTGGCATGCCTCTGT  
 GCCCACTCGGGCAGGACCAGACCTCCTTCTGGAACAGCATCACGCTCACAGGCTTAAGCGAGATGTAGTA  
 ACAGAGACGAAAATTGTGGAGTTGGTGATTGTGGCTGATAATTCAGAGGTCAGAAAGTACCCTGACTTCC  
 AACAACTGCTGAACCGGACACTAGAAGCGGCTCTCTTGCTAGACACGTTCTTCCAGCCCTGAATGTCCG  
 GGTAGCCCTTGTGGGCTAGAGGCATGGACCCAGCACAACTGATAGAAATGAGCTCCAACCCAGCTGTC  
 CTGCTAGACAACCTCCTCCGCTGGCGCCGGACAGACTTGTGCCTCGACTGCCCATGACAGTGGCCAAAC  
 TGGTGACTGTAACCTCCTTCTCTGGTCCCATGGTGGGCATGGCCATTGAGAAATCCATCTGTTCCCTGA  
 CTTCTCCGGAGGTGTGAATATGGACCACTCCACAAGCATCTTAGGCGTTGCCTCCTCGATTGCCATGAA  
 TTGGGCCACAGTCTGGGTTTGGACCATGATTCTCCCGGCACAGCTGTCCCTGTCCAGGTCCAGCCCCGG  
 CTAAGAGCTGCATCATGGAGGCTCCACAGACTCCTACCAGTTTGAACCTCAGCAACTGCAGCCGACA  
 GGCCCTGGAAAAGGCCCTCCTGGAAGGAATGGGCAGCTGCCTCTTGAACGGCACCCACCCAGGTGACCTG  
 CCTGGCCAGGAGATGGAAGCTTCCGCTGGTGGTGCCTCCAGGCCAGCTCCACCACCCCTGCAGCAT  
 CTTGCTCTACCTC

**ACGCGT**ACGCGGGCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207150 representing BC009132  
 Red=Cloning site Green=Tags(s)

MRLALLWALGLLGAGSPRPSPLPNIGGTEEEQQASPRTLSGSMESRVVQDSPPMSLADVLQTGLPEAL  
 RISLELDSESHVLELLQNRDLIPGRPTLVWYQPDGTRMVSEGYSLNCCYRGRVQGHPSWVSLCACSGI  
 RGLIVLSPERYTLELPGDLQRPVISRIQDHLILLGHTCAPSWHASVPTRAGPDLLLEQHHHRLKRDVV  
 TETKIVELVIVADNSEVRKYPDFQQLLNRTLEAALLLDTFQPLNVRVALVGLEAWTQHNL IEMSSNPV  
 LLDNFLRWRRTDLLPRLPHDSAQLVTVTSFSGPMVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHE  
 LGHSLGLDHDSPGHSCPCPGPAPAKSCIMEASTDFL PGLNFSNCSRQALEKALLEGMGSCLFERHPPGDL  
 PPGDGSPLVVPSPAPPPPAASSLYL

**TRTRPLE** – GFP Tag – V

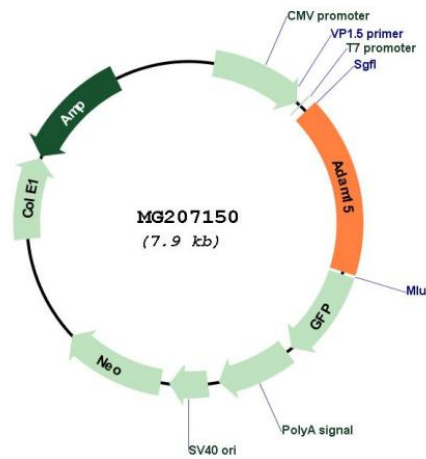
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: BC009132

ORF Size: 1344 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC009132.1</a></u>
<b>RefSeq Size:</b>	1704 bp
<b>RefSeq ORF:</b>	1346 bp
<b>Locus ID:</b>	11490
<b>Cytogenetics:</b>	3 39.07 cM
<b>Gene Summary:</b>	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]