

## Product datasheet for **MG215985**

### Adam18 (NM\_010084) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam18 (NM_010084) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam18
Synonyms:	Adam; Adam27; Dtgn; Dtgn3; Tmdc3; tMDCIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG215985 representing NM\_010084  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGCCTCTGCTCTTCATACTTGGCGAGCTTGCCATGCTGTTTGCCCGCCTCGATTCCGAAGGAATATGCC  
TGCATATCACAGTGCCGAGAAGATAGAGCCACGCAAGGGCGGAGATGCAGAAGGGAAGGTGACATACGT  
CATTACCATTGACGGGAAGCCCTACTCTCTGCATCTCAGGAACCACTCATTTTTATCCCAGAACTTTTTG  
GTTTACACATAACAATGAACTGGATCTTTGTATTCTGACTCATCACACTTTTTGGCTCATTGCCATTACC  
GAGGATATGTTGATGAAGTGCCAAATCCATTGTGACTCAGCATCTGCTCTGGCCTCAGGGGATTCTT  
GCAGTTGGAAAATGTCAGCTATGGAATTGAACCACTGGAGTCTTCAGCAAGGTTTGAGCACATAGTTTAT  
CAAGTGAAGAGCGACAGCTCAATGCTAGCAGGAAATGACAGCCATGTTTGGCAGATAGACCAGCTTGATA  
AAGGCCATTTCAATGAGCAGGATAAAAAATCATTACAACCTGTTACCTCAAAGTCTAAAATGCACATTAT  
AGTGGGAAAATTTTTGTTTGACTATATGGGATCTGACATTATGGCCATAACACAGAAGATTTCCAGATT  
ATTGGTCTTGTTAACGCTATGCTCACTCAGCTGAAATTGAGTGTGTGTTAGCCTCCTTGGAAATGTGGT  
CAGATAAAAAATCATATTTCTACTGACGGAAATGCTACTGATATTTTACAAGACTTTTGGACTGGAACG  
AGACTATCTTACCCTGCAGTCCAATGAAATAACACACTTACTCATTTACAGGAGACGCCCCGAAATACATC  
GGAGCGGCATCACCAGGTGAAATATGCAGTAAAAGCTATGTTGCGGGTGTGGTATGTATCCAGAAGACA  
TAGGTTTGGAGGGATTCTCAGTGGTTATCACTCAACTGATTGGCCTTACATAGGATTAACATACGACGA  
CAATATTAGAAAATGTTCTGTCCCAGCGCTCCATGCATAATGCAGCAGGGAGCACTGAGTTCAGTGGG  
AAGAAGACTTTTAGCAACTGTAGCTTGCATGACTACATGCACTATGTTTCAAATTTGACACGCAGTGTCT  
TTGGTGACCTGTCAAATGTGCATGTATTGCAACCAAATCAAGCCGTGTGTGGCAATGGAATCATGGAAGC  
TGGTGAGGAATGTGACTGTGGTAATGAGACGGAATGTCAATTTAAAGAGTGTGCGACCATGAAACGTGC  
AGGCTAAAAGGCTCAGCACAATGTGGATCTGGAGCTTGCTGCATGCCACGTGTGAGCTGTGAGCATCAG  
GCACGCCCTGTAGGAAAGCTGTTGACCCAGAGTGTGACTTACAGAAATATTGCGATGGATCCTCTAGCCA  
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GATCAGATGGCAGAGACAGCGCATACGTGGCTGACGGCACTGTGTGTGGACCACAATGTATTGTATAAA  
CGGAACCTGCAAAGAAGTTAATTTACAGGAAATGACTGCAACGCCACTAAGAAGTGCAAAGGGAATGGG  
ATATGTAATAACTTTGGTAATTGCCAATGCTTTCTGACTACAGGCCCTCAGATTGTAACCTACAGATTG  
GATCACCAGGGGGCAGCATCGACGACGGGAACACTCTCAGAACTGAGTCGGCTTTTGCTACAAAGCGCCT  
GAGTAAAGAAATGAGGACAGCTGGGTGATCCTGGGCTTCTTCATCTTTCTGCCTTTTCATCGTAACTTCTCT  
GTTGGGATCATGAAGAGAAACGAAAGGAAAATCGTGCCTCAGGGAGAACACAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215985 representing NM\_010084  
 Red=Cloning site Green=Tags(s)

MPLLFILAEAMLFARLDSEGLCHITVPQKIEPRKGGDAEGKVTVYVITIDGKPYSLHLRNHSFLSQNFL  
 VYTYNETGSLYSDSSHFLAHCHYRGYVDEVPNISIVTLSICSGLRGFLQLENVSYGIEPLESSARFEHIVY  
 QVKSDDSSMLAGNDSHVWQIDQLDKGHFNEQDKNHSQLLPQSLKLIIVGKFLFDYMGSDIMAITQKIFQI  
 IGLVNAMLTQLKLSVVLASLELWSDKNHISTDGNATDILQRLLDWKRDYLTLSNEITHLLIYRRRPKYI  
 GAASPGEICSKSYVAGVGMYPEDIGLEGFVSVITQLIGLHIIGLTYDDNIRNCSCPSAPCIMQQGALSSSG  
 KKTFSNCSLHDYMHYVSNFDTQCLGDL SNVHVLQPNQAVCGNGIMEAGEECDGNETECQFKECCDHETC  
 RLKGSAQCGSGACCMPTCELSASGTPCRKAVDPECDFTEYCDGSSSHCVPTDFALNGHL CRLGSAYCYNG  
 RCQALNDQCVSLFGKGSQGASYACFEKVNSPRENLANCDKSDSYVPCGQQDVLCKGLACFRPPKNYKSP  
 SQSVVYSYVHDSVCL SILPGLSMRSDGRDSAYVADGTVCGPQMYCINGTCKEVNFTGNDCNATKKCKGNG  
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 VGIMKRNERKIVPQGEHKI

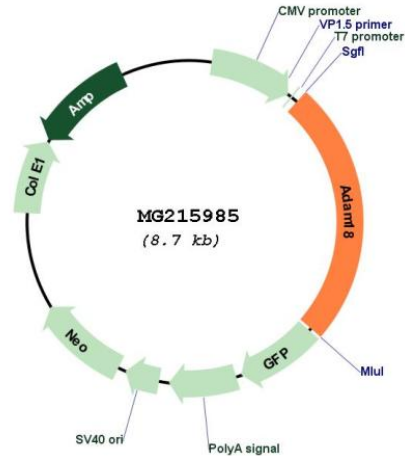
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_010084

**ORF Size:** 2157 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\\_010084.2](#), [NP\\_034214.2](#)

**RefSeq Size:** 2361 bp

**RefSeq ORF:** 2160 bp

Locus ID: 13524

UniProt ID: [Q9R157](#)

Cytogenetics: 8 A2

**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 early stages of spermatogenesis. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional protein. This gene is located in a cluster of related ADAM genes on chromosome 8. [provided by RefSeq, May 2016]