

Product datasheet for **MR215985**

Adam18 (NM_010084) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam18 (NM_010084) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam18
Synonyms:	Adam; Adam27; Dtgn; Dtgn3; Tmdc3; tMDCIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR215985 representing NM_010084
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCCTCTGCTCTTCATACTTGGCGAGCTTGCCATGCTGTTTGCCCGCCTCGATTCGGAAGGAATATGCC
TGCATATCACAGTGCCGAGAAAGATAGAGCCACGCAAGGGCGGAGATGCAGAAGGGAAGGTGACATACGT
CATTACCATTGACGGAAAGCCCTACTCTCTGCATCTCAGGAACCACTCATTTTTATCCCAGAACTTTTTG
GTTTACACATACAATGAAACTGGATCTTTGATTCTGACTCATCACACTTTTTGGCTCATTGCCATTACC
GAGGATATGTTGATGAAGTGCCAAATCCATTGTGACTCAGCATCTGCTCTGGCCTCAGGGGATTCTT
GCAGTTGGAAAATGTCAGCTATGGAATTGAACCACTGGAGTCTTCAGCAAGGTTTGAGCACATAGTTTAT
CAAGTGAAGAGCGACAGCTCAATGCTAGCAGGAAATGACAGCCATGTTTGGCAGATAGACCAGCTTGATA
AAGGCCATTTCAATGAGCAGGATAAAAAATCATTACAACCTGTTACCTCAAAGTCTAAAATGCACATTAT
AGTGGGAAAATTTTTGTTTGACTATATGGGATCTGACATTATGGCCATAACACAGAAGATTTCCAGATT
ATTGGTCTTGTTAACGCTATGCTCACTCAGCTGAAATTGAGTGTGTGTTAGCCTCCTTGGAAATGTGGT
CAGATAAAAAATCATATTTCTACTGACGGAAATGCTACTGATATTTTACAAGACTTTTGGACTGGAACG
AGACTATCTTACCCTGCAGTCCAATGAAATAACACACTTACTCATTTACAGGAGACGCCCCGAAATACATC
GGAGCGGCATCACCAGGTGAAATATGCAGTAAAAGCTATGTTGCGGGTGTGGTATGTATCCAGAAGACA
TAGGTTTGGAGGGATTCTCAGTGGTTATCACTCAACTGATTGGCCTTACATAGGATTAACATACGACGA
CAATATTAGAAAATGTTCTGTCCCAGCGCTCCATGCATAATGCAGCAGGGAGCACTGAGTTCAGTGGG
AAGAAGACTTTTAGCAACTGTAGCTTGCATGACTACATGCACTATGTTTCAAATTTTACACGCACTGTC
TTGGTGACCTGTCAAATGTGCATGTATTGCAACCAAATCAAGCCGTGTGTGGCAATGGAATCATGGAAGC
TGGTGAGGAATGTGACTGTGGTAAATGAGACGGAATGTCAATTTAAAGAGTGTGCGACCATGAAACGTGC
AGGCTAAAAGGCTCAGCACAATGTGGATCTGGAGCTTGTGCATGCCACGTGTGAGCTGTCAGCATCAG
GCACGCCCTGTAGGAAAGCTGTTGACCCAGAGTGTGACTTACAGAAATATTGCGATGGATCCTCTAGCCA
CTGTGTTCTGACACCTTTGCACTGAACGGCCATTTGTGCAGGTTGGGATCTGCATATTGCTACAATGGA
AGATGCCAGGCTCTCAATGACCAATGTGTCAGTTTATTTGGAAAAGGTTCTCAAGGGCTTCTCTATGCC
GTTTTGAAAAAGTGAATTCACCACGTGAAAATCTGGCAAATGTGATTCTAAAGACTCGTACTCGGTACC
TTGCGGACAGCAGGATGTTCTGTGGGAAATAGCTTGTTCGCGCCGCAAGAAATTAAGAGCCCT
AGTCAATCTGTGGTCTATTCCTATGTCCACGACAGCGTGTGTCTGTCCATACTTCTGGGTTGTCTATGA
GATCAGATGGCAGAGACAGCGCATACGTGGCTGACGGCACTGTGTGTGGACCACAATGATTGTATAAA
CGGAACCTGCAAAGAAGTTAATTTACAGGAAATGACTGCAACGCCACTAAGAAGTGCAAAGGGAATGGG
ATATGTAATAACTTTGGTAATTGCCAATGCTTTCTGACTACAGGCCCTCAGATTGTAACCTACAGATTG
GATCACCAGGGGGCAGCATCGACGACGGGAACACTCTCAGAACTGAGTCGGCTTTTGCTACAAAGCGCCT
GAGTAAAGAAATGAGGACAGCTGGGTGATCCTGGGCTTCTTCATCTTTCTGCCTTTTCATCGTAACTTCTCT
GTTGGGATCATGAAGAGAAACGAAAGGAAAATCGTGCCTCAGGGAGAACACAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215985 representing NM_010084
Red=Cloning site Green=Tags(s)

MPLLFILAEAMLFARLDSEGLCHITVPQKIEPRKGGDAEGKVTVYVITIDGKPYSLHLRNHSFLSQNFL
 VYTYNETGSLYSDSSHFLAHCHYRGYVDEVPNISIVTLSICSLRGLFQLENVSYGIEPLESSARFEHIVY
 QVKSDDSSMLAGNDSHVWQIDQLDKGHFNEQDKNHSQLLPQSLKLIIVGKFLFDYMGSDIMAITQKIFQI
 IGLVNAMLTQLKLSVVLASLELWSDKNHISTDGNATDILQRLLDWKRDYLTLSNEITHLLIYRRRPKYI
 GAASPGEICSKSYVAGVGMYPEDIGLEGFVSVITQLIGLHIGLTYDDNIRNCSCPSAPCIMQQGALSSSG
 KKTFSNCSLHDYMHYVSNFDTQCLGDL SNVHVLQPNQAVCGNGIMEAGEECDGNETECQFKECCDHETC
 RLKGSAQCGSGACCMPTCELSASGTPCRKAVDPECDFTEYCDGSSSHCVPDFALNGHLRCLGSAYCYNG
 RCQALNDQCVSLFGKGSQGASYACFEKVNSPRENLANCDKSDSYSVPCGQQDVLCKGLACFRPPKNYKSP
 SQSVVYSYVHDSVCL SILPGLSMRSDGRDSAYVADGTVCGPQMYCINGTCKEVNFTGNDCNATKKCKGNG
 ICNFMGNCQCQFPDYRPPDCNLQIGSPGGSIDDGNTLRTE SAFATKRLSKNEDSWVILGFFIFLPIVTF
 VGIMKRNERKIVPQGEHKI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_f03.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_010084

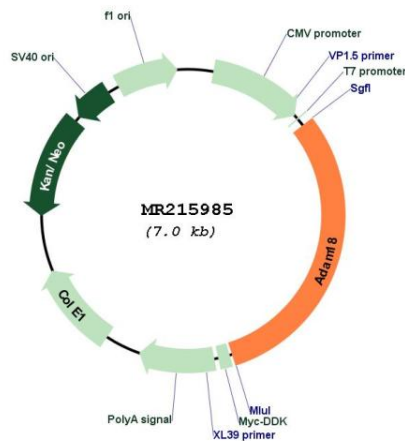
ORF Size: 2157 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_010084.2, NP_034214.2</u>
RefSeq Size:	2361 bp
RefSeq ORF:	2160 bp
Locus ID:	13524
UniProt ID:	<u>Q9R157</u>
Cytogenetics:	8 A2
MW:	79.7 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 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]

Product images:



Circular map for MR215985