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Product datasheet for RR206676

Adam15 (NM_020308) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam15 (NM_020308) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam15
Synonyms:	MDC15; tMDCVI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RR206676 representing NM_020308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTGGCGCTGCTCTGGGCCCTGGGACTCCTGGGCGCGGGCAGCCCTCGGCCCTCCCCGCCGCTGC
CAAATATAGGAGGTACTGAGGAAGAGCAGCAAGCCAGCCCAGAGAGGACCCAGAGTAGATCCTTGGAGAA
CCAGGTTGTTCAGGACAGCCCCCCAATTAACCTAACAGAAGTGCTTCAGACTGGTTTACCTGAGACCCTG
AGGATTGGATTGGAGCTGGACGGTGAGAATCATATCCTGGAGCTTCAACAGAATAGAGATCTGGTCCCTG
GCCGCCCGACTCTGGTGTGGTATCAGCCTGACGGCACCCGAATGGTCAGCGAGGGGCACAGTCTGGAAAA
CTGCTGCTATCGAGGACGAGTTCAGGGCCGCCCCAGCTCTTGGGTCTCCCTCTGTGCCTGCTCTGGGATC
AGGGGGCTGGTAGTCCTGTCCCCTGAGAGAAGCTATACACTGGAGCTGGGACCTGGAGACCTTCAGCGTC
CTCTCATTGTTTCTCGGATCCAAGACCTCCTCTTGCCAGGCCACACCTGTGCCCCAAGCTGGCATGCATT
TGTGCCCACCGAGGCAGCACCAGACCTCCTTTTGGAACAGCACCACCTTCGCAGGCTTAAGCGGGATGTA
GTAACAGAGACGAAAATTGTCGAACTGGTGATTGTGGCTGATAATTCAGAGGTCAGGAAGTACCCTGACT
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GAGTTGGGTCACAGCCTGGGCCTAGACCACGATTCACCTGGGAACAGTTGTCCCTGTCCAGGTCCAGCCC
CAGCCAAGAGCTGCATCATGGAGGCCTCCACAGATTTCCTACCAGGTCTGAACTTCAGCAACTGCAGCCG
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GCTCTACCTGGCACTGCCTGTGGCCCTGGCCTGGTGTGCATCGGCCATCGATGCCAGCCTGTGGATCTCC
TGGGAGCACAGGAATGCCGCAGCAAATGCCATGGCCATGGGGTCTGCGACAGCAGCAGGCACTGCCACTG
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ACCAGGACCTCCACAGAGGGCACAGCAGATGCCAGGCACTAAGCCTCAGGGGCCTACCAAACCCCCACCC
CCAAGAAAGCCACTGCCCGCCAACCCACAGGGCCGGCCCCCGCTGGGTGACCTGCCTGGCCCAGGAGATG
GAAGCTTGCAGCTGGTAGTGCCTTCCAGGCCTGCCCCACCACCCCCAGCAGCATCTTCGCTCTACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

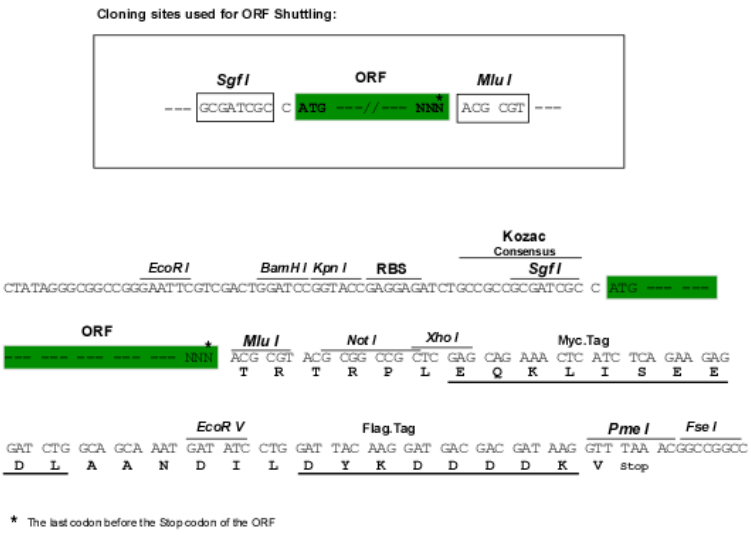
>RR206676 representing NM_020308
Red=Cloning site Green=Tags(s)

MRLALLWALGLLGAGSPRPSPPLPNIGGTEEEQQASPERTQSRSLENQVVQDSPPINLTEVLQTGLPETL
RIGLELDGENHILELQQNRDLVPGRPTLVWYQPDGTRMVSEGHSLENCCYRGRVQGRPSSWVSLCACSGI
RGLVVLSPERSYTLELGPGDLQRPLIVSRIQDLLLPGHTCAPSWHAFVPTEAAPDLLLEQHHLRRLKRDV
VTETKIVELVIVADNSEVRKYPDFQQLLNRTLEVALLLDTFFQPLNVRVALVGLEAWTQRDLIEMSSNPA
VLLDNFLRWRRTDLLPRLPHDSAQLVTVTSFSGPMVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAH
ELGHSLGLDHDSPGNSCPCPGPAPAKSCIMEASTDFLPGLNFSNCSRWALEKALLDGMGSCLFEWPPSRA
PMSSLCGNMFVDPGEQCDCGFPDECTDPCCDYFTCQLRPGAQCASDGPCCQNCKLQPAGWQCRLPTDDCD
LPEFCLGDSSQCPPDIRLGDGEPCASGEAVCMHGRCASYTRQCQSLWGPGAQPAAPLCLQTANTRGNAFG
SCGRSPSGSYMPCNLRDAICGQLQCQWGRNQPLLGSVQDQLSEVLEANGTQLNCSWVDLDLGNDVAQPLL
ALPGTACGPGLVCIGHRCQPVDLLGAQECRSKCHGHGVCDSSRHCHCDEGWAPPDCMTQLRATSSLTTGL
LLSLLLLLVLVLLGASYWYRARLHQRLCQLKGSSCQYRAAQSGPPERPGPPQRAQQMPGTKPQGPTKPPP
PRKPLPANPQGRPPLGDLPGPGDGSLQLVVPSRPAPPPPAASSLYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_020308
ORF Size:	2448 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_020308.1, NP_064704.1

RefSeq Size: 2815 bp

RefSeq ORF: 2451 bp

Locus ID: 57025

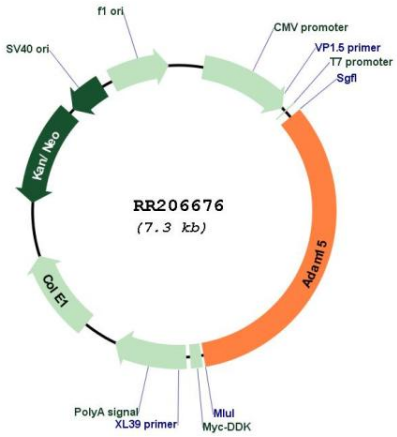
UniProt ID: Q9QYV0

Cytogenetics: 2q34

MW: 88.1 kDa

Gene Summary: Active metalloproteinase with gelatinolytic and collagenolytic activity. Plays a role in the wound healing process. Mediates both heterotypic intraepithelial cell/T-cell interactions and homotypic T-cell aggregation. Inhibits beta-1 integrin-mediated cell adhesion and migration of airway smooth muscle cells. Suppresses cell motility on or towards fibronectin possibly by driving alpha-v/beta-1 integrin (ITAGV-ITGB1) cell surface expression via ERK1/2 inactivation. Cleaves E-cadherin in response to growth factor deprivation. Plays a role in glomerular cell migration. Plays a role in pathological neovascularization. May play a role in cartilage remodeling. May be proteolytically processed, during sperm epididymal maturation and the acrosome reaction. May play a role in sperm-egg binding through its disintegrin domain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR206676