

## Product datasheet for **RC234615**

### ADAM15 (NM\_001261466) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM15 (NM_001261466) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM15
Synonyms:	MDC15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234615 representing NM\_001261466  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGCTGGCGTCTCTGGCCCTGGGGCTCTGGGCGGGCAGCCCTCTGCCTTCCTGGCCGCTCC  
 CAAATATAGTCTCAGCATGCAATGTGGAAGCCCTCAGGTGGCACTGAGGAGCAGCAGGCAGAGTCAGAG  
 AAGGCCCGAGGGAGCCCTTGGAGCCCAAGTCTCAGGACGATCTCCAATTAGCCTCAAAAAGGTGC  
 TTCAGGGAGTTGGTCCCAGGCCGCCAACCTGGTGTGGTACCAGCCGATGGCACTCGGGTGGTCAGTG  
 AGGGACACACTTTGGAGAAGTGTGCTACCAGGGAAGAGTGGGGGATATGCAGGCTCTGGGTGCCAT  
 CTGCACCTGCTCTGGGCTCAGAGGCTTGGTGGTCTGACCCAGAGAGAAGCTATACCCTGGAGCAGGGG  
 CCTGGGGACCTCAGGGTCTCCATTATTTCCGGAATCCAAGATCTCCACCTGCCAGGCCACACCTGTG  
 CCCTGAGCTGGCGGAATCTGTACACACTCAGAAGCCACCAGAGCACCCCTGGGACAGCGCCACATTCCG  
 CCGGAGGCGGGATGTGGTAACAGAGACCAAGACTGTGGAGTTGGTGATTGTGGCTGATCACTCGGAGGCC  
 CAGAAATACCGGACTTCCAGCACCTGTAAACCCGACACTGGAAGTGGCCCTCTTGTCTGGACACATTCT  
 TCCGGCCCTGAATGTACGAGTGGCACTAGTGGCCCTGGAGGCCTGGACCCAGCGTGACCTGGTGGAGAT  
 CAGCCCAAACCCAGCTGTCAACCTCGAAAATTCTCCACTGGCGCAGGGCACAATTTGCTGCCTCGATTG  
 CCCCATGACAGTGGCCAGCTGGTACTTCTATTCTCTGGGCTACGGTGGGCATGGCCATTGAGAG  
 ACTCCATCTGTTCTCTGACTTCTCAGGAGGTGTAACATGGACCACTCCACCAGCATCTGGGAGTCCG  
 CTCCTCCATAGCCATGAGTTGGGCCACAGCCTGGGCCGGACCATGATTGCTGGGAATAGTGGCC  
 TGTCCAGGTCCAGCCCCAGCCAAGACCTGCATCATGGAGGCCTCCACAGACTTCTACCAGGCCTGAAT  
 TCAGCAACTGCAGCCGACGGGCCCTGGAGAAAGCCCTCTGGATGGAATGGGCAGCTGCCTTTGGAACG  
 GCTGCCTAGCCTACCCCTATGGCTGCTTTCTGCGGAAATATGTTTGTGGAGCCGGCGAGCAGTGTGAC  
 TGTGGCTTCTGGATGACTGCGTCGATCCCTGCTGTGATTCTTTGACCTGCCAGCTGAGGCCAGGTGCAC  
 AGTGTGCATCTGACGGACCCTGTTGTCAAAATTGCCAGCTGCGCCGCTGGCTGGCAGTGTGCTCTAC  
 CAGAGGGGATTGTGACTTGCTGAATTTGCCCCAGGAGACAGCTCCAGTGTCCCCTGATGTCAGCCTA  
 GGGGATGGCGAGCCCTGCGCTGGCGGGCAAGCTGTGTGCATGCACGGGCGTTGTGCTCCTATGCCAGC  
 AGTGCCAGTCACTTTGGGACCTGGAGCCAGCCCGCTGCGCCACTTTGCCTCCAGACAGCTAATACTCG  
 GGGAAATGCTTTTGGGAGCTGTGGGCGCAACCCAGTGGCAGTTATGTGCTGCACCCCTAGAGATGCC  
 ATTTGTGGGAGCTCCAGTGCAGACAGGTAGGACCCAGCCTCTGCTGGGCTCCATCCGGGATCTACTCT  
 GGGAGACAATAGATGTGAATGGGACTGAGCTGAACTGCAGCTGGGTGCACCTGGACCTGGCAGTGTG  
 GGCCAGCCCTCCTGACTCTGCCTGGCACAGCCTGTGGCCCTGGCTGGTGGAGCAGCTGGGTGGGCAA  
 GACCAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234615 representing NM\_001261466  
Red=Cloning site Green=Tags(s)

MRLALLWALGLLGAGSPLPSWPLPNIVSACNVEAPQVALRSSRQSQRRPRGSPWSPRSFRTISQLASKRC  
 FRELVPGRPTLVWYQPDGTRVVSEGHTLENCYQGRVRYAGSWVSICTCSGLRGLVVLTPERSYTL EQG  
 PGDLQGPPIISRIQDLHLPGHICALSWRESVHTQKPEHPLGQRHIRRRRDVVTEKTKVELVIVADHSEA  
 QKYRDFQHLLNRTLEVALLLDFTFRPLNVRVALVGLEAWTQRDLVEISNPVAVTLENFLHWRRRAHLLPRL  
 PHDSAQLVTGTSFSGPTVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHELGHSLGLDHDLPGNSCP  
 CPGPAPAKTCIMEASTDFLPGLNFSNCSRRALEKALLDGMGSCFLERLPSLPPMAAF CGNMFVEPEQC  
 CGFLDDCVDPCCDSLTCQLRPGAQCASDGPCQCQLRPSGWQCRPTRGDCDLPEFCPGDSSQC  
 CGFDVSLGDGEPACAGQAVCMHGRCASYAQCQSLWPGAQPAAPLCLQTANTRGNAFGSCGRNPSGSYSCTPRDA  
 ICGQLQCQTGRTPLLGSIRDLLWETIDVNGTELNCSSWVHLDLGSVAQPLLTLPGTACGPGLVSSLGGQ  
 DQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001261466

**ORF Size:** 1899 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\\_001261466.2](#)

**RefSeq Size:** 2242 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 8751

**UniProt ID:** [Q13444](#)

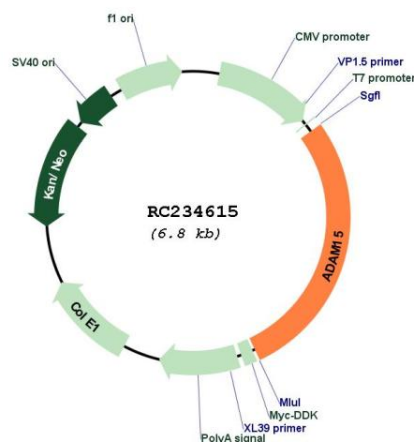
**Cytogenetics:** 1q21.3

**Protein Families:** Druggable Genome, Protease, Transmembrane

**MW:** 68.7 kDa

**Gene Summary:** The protein encoded by this gene is a member of the ADAM (a disintegrin and metalloproteinase) protein family. ADAM family members are type I transmembrane glycoproteins known to be involved in cell adhesion and proteolytic ectodomain processing of cytokines and adhesion molecules. This protein contains multiple functional domains including a zinc-binding metalloprotease domain, a disintegrin-like domain, as well as a EGF-like domain. Through its disintegrin-like domain, this protein specifically interacts with the integrin beta chain, beta 3. It also interacts with Src family protein-tyrosine kinases in a phosphorylation-dependent manner, suggesting that this protein may function in cell-cell adhesion as well as in cellular signaling. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RC234615

