

Product datasheet for **RC221045**

ADAM21 (NM_003813) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM21 (NM_003813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM21
Synonyms:	ADAM 21; ADAM31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC221045 representing NM_003813
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGTGGATGGGACCCTCGTGTACATCAGAGTCACTCTTCTGCTGCTCTGGCTTGGGGTATTTTTGT
 CTATTTCCGGCTACTGTCAGGCTGGGCCCTCCAGCATTTCACCTCCCGGAAGTGGTGATCCCCTTGAA
 GGTGATCAGCAGGGGCAGAAGTGCAAAGCTCCTGGATGGCTCTCCTATAGTCTGCGGTTTGGGGCCAG
 AAACACGTTGTTTCATATGAGGGTCAAGAAGCTCTAGTTTCTAGACACCTCCAGTGTTCACCTACACAG
 ATGACCGTGCCTCTGGAGGATCAGCTTTCATCCAGATGACTGTTACTATCATGGTTACGTGGAGGC
 AGCCCCTGAGTCTCTGGTTGTGTTCACTGCTTGTGTTTGGGGCTTTCGAGGAGTATTAATAAAGTGGC
 CTCACTTATGAAATTGAACCCATCAGGCCTCTGCCACATTTGAACACCTGGTTTATAAGATAAACAGTA
 ATGAGACACAATCCAGCTATGAGATGTGGCTTAACAGAGAAGGAAGTAGCACGCCAACAGTTGGAATT
 TGAAGAGGCTGAGAACTCAGCTCTGGAACCAAAATCTGCTGGTACTGGTGGACTCATGCATGGTTTCTG
 GAGCTAGTTGTTGTGGTGAACCATGATTTCTTCACTTACTCTCAAAGCAACATCTCAAAGGTGCAAGAGG
 ATGATTTCTTGTGTAACATAGTGGATTCCATGTATAAGCAGTTAGGTAATACATAATTTTATTGTTGG
 AATTGAAATTTGGAATCAAGGAAATGTTTTCCCAATGACAAGCATAGAACAGGTCCTGAACGATTTCTCT
 CAATGGAAACAAATCAGTCTTTCCAGCTACAGCATGATGCTGCACATATGTTTCAAAAAATTCACCTTA
 TAAGTATACTTGGCCTAGCCTATGTTGCAGGAATATGTCGTCCACCTATTGATTGTGGAGTTGATAATTT
 TCAAGGAGATACCTGGTCTTTTTGCAACACTGTGGCCATGAGTTAGGTCATACGTTAGGTATGCAG
 CATGATGAAGAATTCTGTTTTGTGGGAAAGAGGTTGCATCATGAATACTTTTAGAGTGCCAGCAGAGA
 AATTCACCAATTGCAGTTACGCTGATTTTATGAAGACCACCTTAACACAGGGATCATGCTGCATAATCT
 TCCAAGATTGGGGAAATCTTTATGCTAAAGCGCTGTGGGAATGGTGTGGTTGAAAGAGAAGAGCAGTGT
 GACTGTGGATCCGTACAGCAGTGTGAACAAGACGCCTGTTGTCTGTTGAACTGCACTCTAAGGCCTGGGG
 CTGCCTGTGCTTTTGGGCTTTGTTGCAAAGACTGCAAGTTCATGCCATCAGGGGAACTCTGTAGACAAGA
 GGTCAATGAATGTGACCTCCAGAATGGTGAATGGAACATCTCATCAGTGTCCAGAAGATAGATATGTG
 CAGGACGGGATCCCCTGTAGTGACAGTGCCTACTGCTATCAAAGAGGTGAATAACCATGACCAGCATT
 GCAGGGAGATTTTGGTAAAGATGCAAAAAGTGCATCTCAGAATTGCTATAAAGAAATCAATTCAGGG
 AAACCGTTTTGGTCACTGTGGTATAAATGGCACAACATACCTAAAATGTCATATCTCTGATGCTTTTTGT
 GGGAGAGTTCAATGTGAGAAATGTGAGAGACATTCCTCTTCCAAGATCATTTTACTTTGCAGCACACTC
 ATATCAATGGTGTACCTGCTGGGTATTGACTATCATTTAAGGATGAACATATCTGACATTGGTGAAGT
 GAAAGATGGTACTGTGTGTGGCCAGGAAAGATCTGCATCCATAAGAAAGTGTGTCAGTCTGTCTGTCTTG
 TCATATGCTGCTTCTCTGAGACCTGCAATATGAAGGGGATCTGCAATAACAAACATCACTGCCACTGTG
 GCTATGGTGGTCCCCACCCTACTGCCAGCACAGAGGCTATGGGGCAGTATTGACAGTGGCCAGCATC
 TGCAAAGAGAGGAGTTTTTTGCCGCTGATTGTGATTCCTTCTTGTCTGTTTTGACTTTCTGTTTACT
 GTCGGGCTTCTTATGTATCTACGACAATGTTCTGGTCCCAAGAAACTAAGGCTCATTATCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221045 representing NM_003813
 Red=Cloning site Green=Tags(s)

MAVDGTLVYIRVTL LLLWLGVFLSISGYCQAGPSQHFTSPEVVIPLKVISRGRSAKAPGWLSYSLRFGGQ
 KHVVHMRVKLLVSRHLPVFTYTD RALLEDQLFIPDDCYHGYVEAAPESLVVF SACFGGFRGV LKISG
 LTYEIEPIRHSATFEHLVYKINSNETQFPAMRCGLTEKEVARQQLEFEEAENSALEPKSAGDWTHAWFL
 ELVVVVNHDFFIYSQSNISKVQEDVFLV VNIIVDSMYKQLGTYYIILIGIEIWNQGNVFPMTSIEQVLNDFS
 QWKQISLSQLQHDAAHMFIKNSLISILGLAYVAGICRPPIDCGVDNFQGD TWSLFANTVAHELGH TLMQ
 HDEEF CFCGERGCIMNTFRVPAEKF TNC SYADFMKTTLNQG SCLHNPPRLGEIFMLKRCGNGVVEREEQC
 DCGSVQQCEQDACCLLNCTLRPGAACAFGLCKDCKFMPSGELCRQEVNECDLPEWCNGTSHQCPEDRYV
 QDGIPCSDSAYCYQKRCNNHDQHCREIFGKDAKSASQNCYKEINSQGNRF GHCGINGT TYLKCHISDVFC
 GRVQCENVRDIPLLQDHFTLQHTH INGVTCWIDYHLRMMNISDIGEVKDGTVCGPGKICIHKKCVSLSVL
 SHVCLPETCNMKGICNNKHHCHCGYGSPPY CQHRGYGGSIDSGPASAKRGVFLPLIVIPSLSVL TFLFT
 VGLLMYLRQCSGPKETKAHSSG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

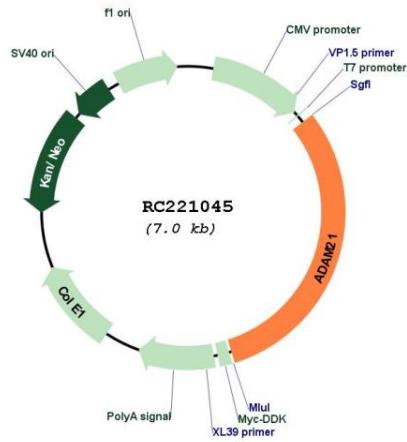


ACCN: NM_003813

ORF Size: 2166 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	NM_003813.4
RefSeq Size:	2406 bp
RefSeq ORF:	2169 bp
Locus ID:	8747
UniProt ID:	Q9UKJ8
Cytogenetics:	14q24.2
Protein Families:	Protease, Transmembrane
MW:	80.6 kDa
Gene Summary:	<p>This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The expression of this gene expression is testis-specific. [provided by RefSeq, May 2011]</p>

Product images:



Circular map for RC221045