

Product datasheet for **RC223044**

ADAM7 (NM_003817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM7 (NM_003817) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADAM7
Synonyms:	ADAM-7; ADAM 7; EAPI; GP-83; GP83
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC223044 representing NM_003817
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTTCCCGGGTGTATATTCTTGATGATTTTACTCATTCTCAGGTTAAAGAAAAGTTCATCCTTGGAG
TAGAGGGTCAACAACCTGGTTTCCTCTAAAAAGCTTCTCTGATACAGAAGCGAGATACTGGACACACCCA
TGATGATGACATACTGAAAACGTATGAAGAAGAATTGTTGTATGAAATAAACTAAATAGAAAAACCTTA
GTCCTTCACTTTAAGATCCAGGGAGTTCCTAGGCTCAAATTACAGTGAACATTCTACTCCATGAAAAG
GAGAAGCGTTCCAGGCATCCTCAGATCATGGATCATTGTTTTACCAAGGATCCATAGTACACGAATA
TGATTCAGCTGCCAGTATCAGTACGTGAATGGTCTAAGGGGATTCTCAGAATAAACGACCAAAGATAC
CTCATTGAACCAGTGAATACTCAGATGAGGGAGAACATTTGGTGTCAAATATAACCTGAGGGTGCCGT
ATGGTGCCAAATTATTCTGTACAGAGCTTAATTTTACCAGAAAACTGTTCCAGGGGATAATGAATCTGA
AGAAGACTCCAAAATAAAGGCATCCATGATGAAAAGTATGTTGAATTGTTCAATTGTTGCTGATGACT
GTGTATCGCAGAAATGGTCATCCTCACAATAAACTAAGGAACCGAATTTGGGGAATGGTCAATTTTGCA
ACATGATTTATAAAAACCTTAAACATCCATGTGACGTTGGTTGGCATTGAAATATGGACACATGAAGATA
AATAGAATATATTCAAATATAGAACTACCTTATTGCGTTTTTCATTTGGCAAGAAAAGATCCTTAA
ACACGGAAGGATTTTGATCATGTTGTAATTACTCAGTGGGAAGTGGCTCTACTCACATGTGCAAGGAATTT
CTTATCCAGGGGGTATGTGCCTGCCCTATTATCCACCAGTATCATTAAAGGATCTTTTACCTGACACAAA
CATAATTGCAAACAGAAATGGCACATCACTGGGCATAACCTGGGATGCAGCATGACGAGTTCCTATGC
ACCTGTCTTTCAGGAAAATGCGTGATGGACAGTATGGAAGCATTCTGCACTGAAATTCAGTAAATGCA
GCCAAAACCAATACCACCAGTACTTGAAGGATTATAAGCCAACATGCATGCTCAACATTCATTTCCTTA
CAATTTTCATGATTTCCAATTTTGTGGAACAAGAAGTTGGATGAGGGTGAAGAGTGTGACTGTGGCCCT
GCTCAGGAGTGTACTAATCCTTGCTGTGATGCACACACATGTGTACTGAAGCCAGGATTTACTTGTGCAG
AAGGAGAATGCTGTGAATCTTGTCAGATAAAAAAGCAGGGTCCATATGCAGACCGGCGAAAAGATGAATG
TGATTTTCTGAGATGTGCACTGGCCACTCGCCTGCCTAAGGACCAGTTCAGGGTCAATGGATTT
CCTTGCAAGAACTCAGAAGGCTACTGTTTCATGGGAAATGTCCAACCTCGTGAGGATCAGTGCTCTGAAC
TATTTGATGATGATGCAATAGAGAGTCATGATATCTGCTACAAGATGAATACAAAAGGAAATAAATTTGG
ATACTGCAAAAACAAGGAAAACAGATTTCTCCCTGTGAGGAGAAAGATGTCAGATGTGGAAGATCTAC
TGCACTGGAGGGAGCTTTCCTCTCCTTGGAGAAGACAAGACTTATCACCTTAAAGGATCCCCAGAAGA
ATGCTACTGTCAAATGCAAACTATTTTTTATACCATGATTCTACAGACATTGGCTGGTGGCGTCAGG
AACAAAATGTGGAGAGGGAAATGGTGTGCAACAATGGTGAATGTCTAAACATGGAAAAGGTCTATATCTCA
ACCAATTGCCCTCTCAGTGAATGAAAATCCTGTGGATGGCCACGGACTCCAGTGCCACTGTGAGGAAG
GACAGGCACCTGTAGCCTGTGAAGAAACCTTACATGTTACCAATATCACCATCTTGGTTGTTGTGCTTGT
CCTGGTTATTGTGCGTATCGGAGTTCCTTACTATTAGTTCGTTACCGAAAATGTATCAAGTTGAAGCAA
GTTTCAGAGCCACCTACAGAAACCCTGGGAGTGGAGAACAAGGATACTTTGGTGTGAGCAGCAGATAA
GGACTGAGCCAACTCCTGCCAGAAATTCATTTCTAAATAAACCTGCAAGTAAAGATTCAAGAGGAATCGC
AGATCCCAATCAAAGTGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223044 representing NM_003817
Red=Cloning site Green=Tags(s)

MLPGCIFLMILLIPQVKEKFI LGVEGQQLVRPKKLP LIQKRD TGHTHDD I LKTYEEELL YEIKLNRKTL
 VLHLLRSREFLGSNYSETFY SMKG EAFTRHPQIMDHC FYQGSIV HEYDSAASISTCNGLRGFFRINDQRY
 LIEPVKYSDEGEHLVFKYNLRVPYGANYSCTELNFRTRKTPGDNESEEDSKIKGIHDEKYVELFIVADDT
 VYRRNGHPHNKLRNRIWGMVNFVNMIYKTLNIHVTLVGIETWTHEDKIELYSNIETLLRFSWQEKILK
 TRKDFDHVVLLSGKWLYSHVQGISYPGGMCLPYYSTSI IKDLLPDTNIIANRMAHQLGHNLGMQHDEFPC
 TPCSGKCVMSDGSIPALKFSKCSQNQYHQYLKDYKPTCMLNIPFPYNFHDFQFCGNKKLDEGEEDCGP
 AQECTNPCCDAHTCVLKP GFTCAEGECESCQIKKAGSICRPAKDECFPEMCTGHSPACPKDQFRVNGF
 PCKNSEGYCFMGKPTREDQCSELFDDDAIESHDICYMNTKGNKFGYCKNKENRFLPCEEKDVRCGKIY
 CTGGELSSLLGEDKTYHLKDPQKNATVKCKTIFLYHDSTDIGLVASGTCGEGMVCNNGECLNMEKYYIS
 TNCP SQCNENPVDGHLQCHCEEQAPVACEETLHV TNITILVVVLV LVI VGI GVL ILLVRYRCKIKLKQ
 VQSPPTETLGVENKGYGDEQQIRTEPILPEIHFLNKPASKDSRGIADPNQSAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8008_a10.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_003817

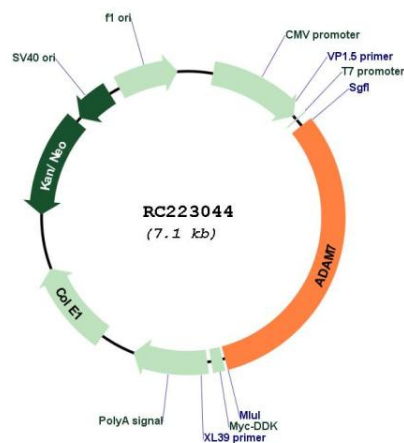
ORF Size: 2262 bp

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:	NM_003817.1 , NP_003808.1
RefSeq Size:	2582 bp
RefSeq ORF:	2265 bp
Locus ID:	8756
UniProt ID:	Q9H2U9
Cytogenetics:	8p21.2
Protein Families:	Druggable Genome, Transmembrane
MW:	85.5 kDa
Gene Summary:	This gene encodes a member of the ADAMs family of zinc proteases. These transmembrane proteins play roles in multiple processes including cell signaling, adhesion and migration. The encoded protein lacks protease activity and may play roles in protein-protein interactions and cell adhesion processes including sperm-egg fusion. Mutations in this gene may be involved in the progression of melanoma. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC223044