

Product datasheet for **MR210844**

Adam17 (NM_009615) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Adam17 (NM_009615) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Adam17 |
| Synonyms: | CD156b; Tac; Tace |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>MR210844 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGCGCTCTCCTCATCTGACCCTTTGGTGCCTTCGTCCTGGCACCCCGACTCCGGAGGAAG
CAGGCTCTGGCTCCCATCCGCGACTTGAGAAGCTTGATTCTTTGCTCTCAGACTACGACATCCTCTCCTT
AGCTAATATTCAGCAGCACTCCATAAGGAAAAGGGATCTACAGTCTGCGACACACTTAGAAAACCTACTA
ACTTTTTAGCTTTGAAAAGACATTTTAAATTATACTTGACATCAAGTACCGAACGCTTTTCACAAAACCT
TGAGAGTCGTGGTGGTGGACGGGAAAGAAGAAAGCGAGTACAGCGTGAAGTGGCAGAACTTCTTCAGTGG
TCACGTGGTTGGTGGCCTGACTCTAGGGTTCTAGCCACATAGGAGATGATGATGTTACAGTGAGAATC
AACACAGATGGGCAGAAATAACGTAGAGCCACTTTGGAGGTTGTCAATGATACTAAAGATAAACGAA
TGCTGGTGTATAAGTCTGAAGATATCAAGGATTTTTCACGTTTGCAGTCTCCAAAAGTATGTGGTTATTT
AAATGCAGATAGTGAAGAGCTGCTTCCAAAAGGGCTCATAGACAGAGAGCCATCTGAAGAGTTTGTTCGT
CGAGTGAAGAGACGAGCTGAACCTAACCCCTTGAAGAATACTTGTAAATTAAGTGGTGGTAGCAGATCATC
GATTTTATAAATACATGGGCCGTGGAGAAGAGAGCACCCTACAATACTTAATAGAGCTAATTGACCG
AGTTGATGACATATACCGGAACACGTCGTGGGATAATGCAGGGTTTAAAGGGTATGGAGTGCAGATAGAG
CAGATTCGAATTCCTAAGTCTCCACAAGAGGTAACCTGGTGAAGACACTTCAATATGGCAAAAAGTT
TCCCAACGAAGAGAAGGATGCTTGGGATGTGAAGATGCTATTAGAGCAATTTAGCTTTGATATAGCTGA
AGAAGCATCTAAAGTCTGCCTGGCTCATTTTTACGTACCAGGATTTGATATGGGAACTTTGGATTA
GCTTACGTTGGTCTCCAGAGCAACAGTCTGGAGGGGTTTGTCCAAAAGCTTATTACAACCCAACTG
TGAAGAAAAACATCTATTTAAATAGTGGTCTGACTAGTACTAAAAATTATGGCAAAACTATTCTCACAAA
GGAAGCTGACCTGGTTACAACCTCATGAATTTGGACATAAATTTGGAGCAGAACATGACCCTGATGGGCTA
GCAGAATGTGCCCAAATGAGGACCAAGGAGGAAAGTATGTCATGTATCCCATAGCTGTGAGCGGTGACC
ACGAGAATAATAAGATGTTTTCAAAGTGCAGTAAACAGTCCATCTACAAGACCATAGAAAAGTAAAGCTCA
AGAGTGTCTCCAGGAGCGCAGCAACAAGGTGTGTGGCACTCCAGGGTGGATGAAGGAGAGGAGTGTGAC
CCGGGTATTATGTACCTGAACAACGACACCTGCTGCAATAGTACTGCACACTGAAGCCGGGTGTGACGT
GCAGTATAGGAACAGTCTTGTGTAAAACTGTCAGTTTGGAGCGCGCAGAAGAAGTGCAGGAGGC
TATTAATGCTACATGCAAAGGAGTGTCTTACTGCACAGGGAATAGCAGTGAAGTGCACCCACCCGGAGAT
GCTGAAGATGACTGTGTGCTTGGACCTTGGCAAGTGAAGGCTGGGAAATGCATCCCTTCTGCAAGA
GGGAGCAGGAGCTGGAGTCTGCGCATGCGTTGCACTGACAACCTCGTGAAGGTGTGCTGCAGGAACCT
TTCTGGCCCGTGTGTGCCGTACGTCGATGCAGAGCAAAAGAACTTGTTTTTGAGGAAAGGGAAGCCATGT
ACAGTAGGGTTTTGCGACATGAATGGCAAAATGTGAGAAACGAGTACAGGACGTAATTGAGCGATTTTGGG
ATTTCAATGACCAGCTGAGCATCAACACTTTTGGGAAGTTTCTGGCAGATAACATCGTTGGGTCTGTTCT
GGTTTTCTCCTTGATATTTGGATTCTTTTTCAGCATTCTGTCCACTGTGTGGATAAGAAACTGGACAAG
CAGTATGAATCCCTGTCTCTGTTTTCATCACAGTAACATTGAGATGCTGAGCAGCATGGACTCAGCATCTG
TTCGCATCATCAAGCCCTTCTGACCCCAAGACTCCAGGTCTGCTGCAGGCCCTGCAGCCAGCTGCCAT
GATGCCGCCAGTACCTGCAGCTCCAAAAGTGGACCACAGAGGATGGATACCATCCAGGAAGACCCCAAGC
ACAGACTCACATGCAGATGATGACGGTTTTGAGAAGGACCCCTTCCCAACAGCAGCACAGCTGCCAAGT
CCTTTGAGGATCTCACAGACCACCCAGTACCAGGAGCGAAAAGGCGGCCTCATTCAAGCTGCAGCGTCA
GAGCCGAGTTGACAGCAAGAGACAGAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210844 protein sequence
 Red=Cloning site Green=Tags(s)

MRRRLILTTLPFVLAAPRPPEEAGSGSHPRLEKLSLLSDYDILSLANIQQHSIRKRDLSATHLETLL
 TFSALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQNFSGHVVGEPDSRVLAHIGDDDDTVRI
 NTDGAEYNVEPLWRFVNDTKDKRMLVYKSEDIKDF SRLQSPKVCGYLNADSEELLPKGLIDREPSEEFVR
 RVKRRRAEPNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNAGFKGYGVQIE
 QIRILKSPQEVKPGERHFNMAKSFNNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTGL
 AYGSPRANSHGGVCPKAYNPTVKKNIYLNGLTSTKNYKGTILTKEADLVTTHELGHNFGEHDPDGL
 AECAPNEDQGGKYVMYPIAVSGDHENKMF SNCSKQSIYKTIESKAQECFQERSNKVCGNSRVDEGEECD
 PGIMYLNNDTCCNSDCTLPGVQCSDRNSPCKKNCQFETAQKKCQEA INATCKGVS YCTGNSSECP PPGD
 AEDDTVCLDLGKCKAGKCIPFCKREQELESACVDTDNSCKVCCRNL SGPCVPYVDAEQKNLFLRKGKPC
 TVGFCDMNGKCEKRVQDIERFWDFIDQLSINTFGKFLADNIVGSVLFSLIFWIPFSILVHCVDKKLKD
 QYESLSLFFHNSIEMLSMDSASVRI IKPFPAQTPGRLQALQPAAMPPVPAAPKLDHQRMDTIQEDPS
 TDSHADDGFEKDPFPNSSTAAKSFEDLTDHPVTRSEKAASFKLQRQSRVDSKETEC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_009615

ORF Size: 2484 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_009615.2](#), [NM_009615.3](#), [NM_009615.5](#), [NM_009615.6](#), [NP_033745.4](#)

RefSeq Size: 4451 bp

RefSeq ORF: 2484 bp

Locus ID: 11491

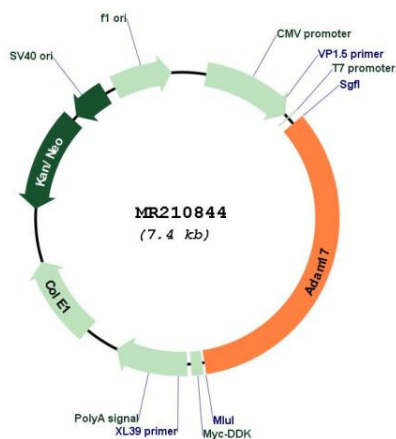
UniProt ID: [Q9Z0F8](#)

Cytogenetics: 12 8.3 cM

MW: 93.1 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. The encoded preproprotein undergoes proteolytic processing to generate a mature enzyme that is involved in the proteolytic release of membrane-bound proteins in a process called ectodomain shedding. Mice lacking the encoded protein die in utero or fail to survive beyond one week of age. Alternative splicing results in multiple transcript variants encoding different isoforms, some of which may undergo similar processing. [provided by RefSeq, May 2016]

Product images:



Circular map for MR210844