

Product datasheet for **MG210844**

Adam17 (NM_009615) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam17 (NM_009615) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Adam17
Synonyms:	CD156b; Tac; Tace
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210844 representing NM_009615
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGCGCTCTCCTCATCTGACCCTTTGGTGCCTTCGTCCTGGCACCCCGACTCCGGAGGAAG
CAGGCTCTGGCTCCCATCCGCGACTTGAGAAGCTTGATTCTTTGCTCTCAGACTACGACATCCTCTCCTT
AGCTAATATTCAGCAGCACTCCATAAGGAAAAGGGATCTACAGTCTGCGACACACTTAGAAAACCTACTA
ACTTTTTAGCTTTGAAAAGACATTTTAAATTATACTTGACATCAAGTACCGAACGCTTTTCACAAAACCT
TGAGAGTCGTGGTGGTGGACGGGAAAGAAGAAAGCGAGTACAGCGTGAAGTGGCAGAACTTCTTCAGTGG
TCACGTGGTTGGTGGCCTGACTCTAGGGTTCTAGCCACATAGGAGATGATGATGTTACAGTGAGAATC
AACACAGATGGGCAGAAATAACGTAGAGCCACTTTGGAGGTTGTCAATGATACTAAAGATAAACGAA
TGCTGGTGTATAAGTCTGAAGATATCAAGGATTTTTCACGTTTGCAGTCTCCAAAAGTATGTGGTTATTT
AAATGCAGATAGTGAAGAGCTGCTTCCAAAAGGGCTCATAGACAGAGAGCCATCTGAAGAGTTTGTTCGT
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AGTTGATGACATATACCGGAACACGTCGTGGGATAATGCAGGGTTTAAAGGGTATGGAGTGCAGATAGAG
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AGAAGCATCTAAGTCTGCCTGGCTCATTTTTACGTACCAGGATTTGATATGGGAACTTTGGATTA
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TGAAGAAAACATCTATTTAAATAGTGGTCTGACTAGTACTAAAAATTATGGCAAAAATTTCTCACAAA
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GCAGAATGTGCCCAAATGAGGACCAAGGAGGAAAGTATGTCATGTATCCCATAGCTGTGAGCGGTGACC
ACGAGAATAATAAGATGTTTTCAAAGTGCAGTAAACAGTCCATCTACAAGACCATAGAAAAGTAAAGCTCA
AGAGTGTCTCCAGGAGCGCAGCAACAAGGTGTGTGGCACTCCAGGGTGGATGAAGGAGAGGAGTGTGAC
CCGGGTATTATGTACCTGAACAACGACACCTGCTGCAATAGTACTGCACACTGAAGCCGGGTGTGACGT
GCAGTATAGGAACAGTCTTGTGTAAAACTGTCAGTTTGGAGCGCGCAGAAGAAGTGCAGGAGGC
TATTAATGCTACATGCAAAGGAGTGTCTTACTGCACAGGGAATAGCAGTGAAGTGCACCCACCCGGAGAT
GCTGAAGATGACTGTGTGCTTGGACCTTGGCAAGTGAAGGCTGGGAAATGCATCCCTTCTGCAAGA
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CAGTATGAATCCCTGTCTCTGTTTTCATCACAGTAACTTGAAGTGTGCTGAGCAGCATGGACTCAGCATCTG
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GATGCCGCCAGTACCTGCAGTCCAAAAGTGGACCACAGAGGATGGATACCATCCAGGAAGACCCAGC
ACAGACTCACATGCAGATGATGACGGTTTTGAGAAGGACCCCTTCCCAACAGCAGCAGCTGCCAAGT
CCTTTGAGGATCTCACAGACCACCCAGTACCAGGAGCGAAAAGGCGGCCTCATTCAAGCTGCAGCGTCA
GAGCCGAGTTGACAGCAAGAGACAGAGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210844 representing NM_009615
Red=Cloning site Green=Tags(s)

MRRRLILTTLPFVLAAPRPPEEAGSGSHPRLEKLDSSLSDYDILSLANIQQHSIRKRDLSATHLETL
TF SALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQNFSGHVVGEPDSRVLAHIGDDDDVT
VRI NTDGAEYNVEPLWRFVNDTKDKRMLVYKSEDIKDF SRLQSPKVCGYLNADSEELLPKGLID
REPSEEFVR RVKRRRAEPNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLIELIDRVDDIYR
NTSWDNAGFKGYGVQIE QIRILKSPQEVKPGERHFNMAKSFNNEEKDAWDVKMLLEQFSFDIA
EEASKVCLAHLFTYQDFDMGTGL AYVGS PRANSHGVC PKAYYNPTVKKNIYLN SGLTSTK
NYGKTI LTKEADLVTTHELGHNF GAEHDPDGL AECAPNEDQGGKYVMYPIAVSGDHEN
NKMFSNCSKQSIYKTIESKAQECFQERSNKVCGNSRVDEGEECD PGIMYLNNDTCCNSD
CTLKPGVQCSDRNSPCKKNCQFETAQKKCQEA INATCKGVS YCTGNSSECP PPGD
AEDDTVCLDLGKCKAGKCIPFCKREQELESCACVDTDNSCKVCCRNL SGPCVPYVDAEQ
KNLFLRKGKPC TVGFCDMNGKCEKRVQDVIERFWDFIDQLSINTFGKFLADNIVGSV
LVFSLIFWIPFSILVHCVDKKL DK QYESLSLFHHSNIEMLSMDSASVRIIKPFPA
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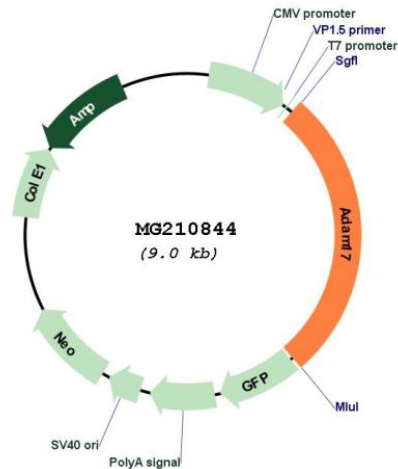
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_009615

ORF Size: 2481 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_009615.5](#), [NP_033745.4](#)

RefSeq Size: 4410 bp

RefSeq ORF: 2484 bp

Locus ID: 11491

UniProt ID: [Q9Z0F8](#)

Cytogenetics: 12 8.3 cM

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]