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Product datasheet for MR230601

Adam17 (NM_001291871) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adam17 (NM_001291871) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adam17
Synonyms:	CD156b; Tac; Tace
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR230601 representing NM_001291871
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCGTGGAGAAGAGAGCACCACTACAAATTACTTAATAGAGCTAATTGACCGAGTTGATGACATAT
ACCGGAACACGTCGTGGGATAATGCAGGGTTTAAAGGGTATGGAGTGCAGATAGAGCAGATTCGAATTCT
CAAGTCTCCACAAGAGGTAAAACCTGGTGAAAGACACTTCAATATGGCAAAAAGTTTCCCAAACGAAGAG
AAGGATGCTTGGGATGTGAAGATGCTATTAGAGCAATTTAGCTTTGATATAGCTGAAGAAGCATCTAAAG
TCTGCCTGGCTCATCTTTTCACGTACCAGGATTTTGATATGGGAACTCTTGGATTAGCTTACGTTGGTTC
TCCCAGAGCAAACAGTCATGGAGGGGTTTGTCCAAAAGCTTATTACAACCCAACTGTGAAGAAAAACATC
TATTTAAATAGTGGTCTGACTAGTACTAAAAATTATGGCAAAACTATTCTCACAAAGGAAGCTGACCTGG
TTACAACTCATGAATTGGGACATAATTTTGGAGCAGAACATGACCCTGATGGGCTAGCAGAATGTGCCCC
AAATGAGGACCAAGGAGGAAAGTATGTCATGTATCCCATAGCTGTGAGCGGTGACCACGAGAATAATAAG
ATGTTTTCAAACTGCAGTAAACAGTCCATCTACAAGACCATAGAAAGTAAGGCTCAAGAGTGCTTCCAGG
AGCGCAGCAACAAGGTGTGTGGCAACTCCAGGGTGGATGAAGGAGAGGAGTGTGACCCGGGTATTATGTA
CCTGAACAACGACACCTGCTGCAATAGTGACTGCACACTGAAGCCGGGTGTGCAGTGCAGTGATAGGAAC
AGTCCTTGCTGTAAAAACTGTCAGTTTGAGACGGCGCAGAAGAAGTGCCAGGAGGCTATTAATGCTACAT
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TGTGTGCTTGGACCTTGGCAAGTGCAAGGCTGGGAAATGCATCCCTTTCTGCAAGAGGGAGCAGGAGCTG
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CGACATGAATGGCAAATGTGAGAAACGAGTACAGGACGTAATTGAGCGATTTTGGGATTTCATTGACCAG
CTGAGCATCAACACTTTTGGGAAGTTTCTGGCAGATAACATCGTTGGGTCTGTTCTGGTTTTCTCCTTGA
TATTTTGGATTCCTTTCAGCATTCTTGTCCACTGTGTGGATAAGAAACTGGACAAGCAGTATGAATCCCT
GTCTCTGTTTCATCACAGTAACATTGAGATGCTGAGCAGCATGGACTCAGCATCTGTTCGCATCATCAAG
CCCTTTCCTGCACCCCAGACTCCAGGTCGTCTGCAGGCCCTGCAGCCAGCTGCCATGATGCCGCCAGTAC
CTGCAGCTCCAAAACTGGACCACCAGAGGATGGACACCATCCAGGAAGACCCCAGCACAGACTCACATGC
AGATGATGACGGTTTTGAGAAGGACCCCTTCCCCAACAGCAGCACAGCTGCCAAGTCCTTTGAGGATCTC
ACAGACCACCCAGTCACCAGGAGCGAAAAGGCGGCCTCATTCAAGCTGCAGCGTCAGAGCCGAGTTGACA
GCAAAGAGACAGAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

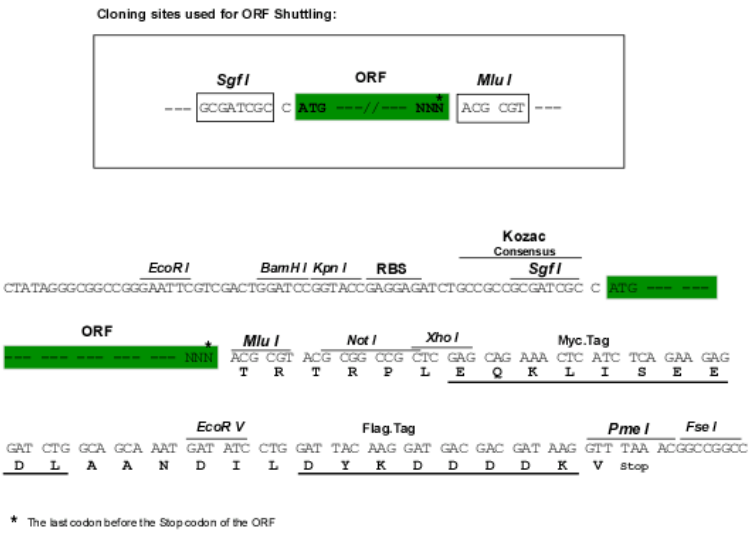
>MR230601 representing NM_001291871
Red=Cloning site Green=Tags(s)

MGRGEESTTTNYLIELIDRVDDIYRNTSWDNAGFKGYGVQIEQIRILKSPQEVKPGERHFNMAKSFPNEE
KDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGLAYVGSPRANSHGGVCPKAYYNPTVKKNI
YLNSGLTSTKNYGKTILTKEADLVTTHELGHNFGAEHDPDGLAECAPNEDQGGKYVMYPIAVSGDHENNK
MFSNCSKQSIYKTIESKAQECFQERSNKVCGNSRVDEGEECDPGIMYLNNDTCCNSDCTLKPGVQCSDRN
SPCCKNCQFETAQKKCQEAINATCKGVSYCTGNSSECPPPGDAEDDTVCLDLGKCKAGKCIPFCKREQEL
ESCACVDTDNSCKVCCRNLSGPCVPYVDAEQKNLFLRKGKPCTVGFCDMNGKCEKRVQDVIERFWDFIDQ
LSINTFGKFLADNIVGSVLVFSLIFWIPFSILVHCVDKKLDKQYESLSLFHHSNIEMLSSMDSASVRIIK
PFPAPQTPGRLQALQPAAMMPPVPAAPKLDHQRMDTIQEDPSTDSHADDDGFEKDPFPNSSTAAKSFEDL
TDHPVTRSEKAASFKLQRQSRVDSKETEC

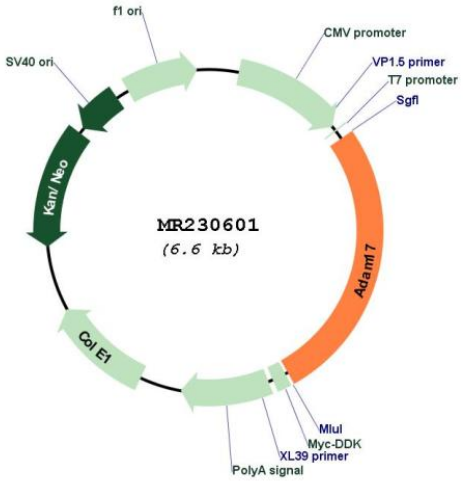
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001291871

ORF Size: 1767 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_001291871.1, NP_001278800.1
RefSeq Size:	4470 bp
RefSeq ORF:	1770 bp
Locus ID:	11491
UniProt ID:	Q9Z0F8
Cytogenetics:	12 8.3 cM
MW:	66 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]