

## Product datasheet for **MR231248**

### Adam17 (NM\_001277266) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Adam17 (NM_001277266) 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:**

>MR231248 representing NM\_001277266  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCGCGCTCTCCTCATCTGACCCTTTGGTGCCTTCGTCTGGCACCCGACCTCCGGAGGAAG  
 CAGGCTCTGGCTCCCATCCGCGACTTGAGAAGCTTGATTCTTTGCTCTCAGACTACGACATCCTCTCCTT  
 AGCTAATATTCAGCAGCACTCCATAAGGAAAAGGATCTACAGTCTGCGACACACTTAGAAAACCTACTA  
 ACTTTTTAGCTTTGAAAAGACATTTTAAATTATACTTGACATCAAGTACCGAACGCTTTTCACAAAACCT  
 TGAGAGTCGTGGTGGTGGACGGGAAAGAAGAAAGCGAGTACAGCGTGAAGTGGCAGAACTTCTTCAGTGG  
 TCACGTGGTTGGTGGCCTGACTCTAGGGTTCTAGCCACATAGGAGATGATGATGTTACAGTGAGAATC  
 AACACAGATGGGCAGAAATAACGTAGAGCCACTTTGGAGGTTTGTCAATGATACTAAAGATAAACGAA  
 TGCTGGTGTATAAGTCTGAAGATATCAAGGATTTTACGTTTGCAGTCTCCAAAAGTATGTGGTTATTT  
 AAATGCAGATAGTGAAGAGCTGCTTCCAAAAGGGCTCATAGACAGAGAGCCATCTGAAGAGTTTGTTCGT  
 CGAGTGAAGAGACGAGCTGAACCTAACCCCTTGAAGAATACTTGTAAATTAAGTGGTGGTAGCAGATCATC  
 GATTTTATAAATACATGGGCCGTGGAGAAGAGAGCACCCTACAATTAAGTACATTTACAGGCAC  
 TCGGGACAGAGTACGACCCGACTGCTTTTTAGAGTTTTGATAGAGCTAATTGACCGAGTTGATGACATA  
 TACCGAACACGTCGTGGGATAATGCAGGGTTAAAGGGTATGGAGTGCAGATAGAGCAGATTCCGAATTC  
 TCAAGTCTCCACAAGAGGTAAAACCTGGTGAAGACACTTCAATATGGCAAAAAGTTTCCCAAACGAAGA  
 GAAGGATGCTTGGGATGTGAAGATGCTATTAGAGCAATTTAGCTTTGATATAGCTGAAGAAGCATCTAAA  
 GTCTGCCTGGCTCATCTTTTACGTACCAGGATTTTGTATGGAACCTTTGGATTAGCTTACGTTGGTT  
 CTCCCAGAGCAAAACAGTCAAGGAGGTTTGTCCAAAAGCTTATTACAACCAACTGTGAAGAAAAACAT  
 CTATTTAAATAGTGGTCTGACTAGTACTAAAAATTATGGCAAAAACCTATTCTCACAAGGAAGCTGACCTG  
 GTTACAACCTCATGAATTGGGACATAATTTTGGAGCAGAACATGACCCCTGATGGGCTAGCAGAATGTGCC  
 CAAATGAGGACCAAGGAGGAAAGTATGTCATGTATCCCATAGCTGTGAGCGGTGACCACGAGAATAATAA  
 GATGTTTTCAAACCTGCAGTAAACAGTCCATCTACAAGACCATAGAAAAGTAAAGGCTCAAGAGTGTCCAG  
 GAGCGCAGCAACAAGGTGTGTGGCAACTCCAGGGTGGTGAAGGAGAGGAGTGTGACCCGGGATTATGT  
 ACCTGAACAACGACACCTGCTGCAATAGTACTGCACACTGAAGCCGGGTGTGACGTGCAGTGATAGGAA  
 CAGTCTTGTGTAAAAACTGTCAGTTTGGAGCGCGCAGAAGAAGTCCAGGAGGCTATTAATGCTACA  
 TGCAAAGGAGTGTCTTACTGCACAGGGAATAGCAGTGAGTGCCCCCACCAGGAGATGCTGAAGATGACA  
 CTGTGTGCTTGGACCTTGGCAAGTGAAGGCTGGGAAATGCATCCCTTTCTGCAAGAGGGAGCAGGAGCT  
 GGAGTCTGCGCATGCGTTGACACTGACAACTCGTGAAGGTGTGCTGCAGGAACCTTTCTGGCCCGTGT  
 GTGCCGTACGTCGATGCAGAGCAAAAGAACTTGTTTTTGAGGAAAGGGAAGCCATGTACAGTAGGGTTTT  
 GCGACATGAATGGCAATGTGAGAAACGAGTACAGGACGTAATTGAGCGATTTTGGGATTTTCATTGACCA  
 GCTGAGCATCAACACTTTTGGGAAGTTTCTGGCAGATAACATCGTTGGTCTGTTCTGGTTTTCTCCTTG  
 ATATTTTGGATTCTTTTACGATTTCTGTCCACTGTGTGGATAAGAAACTGGACAAGCAGTATGAATCCC  
 TGTCTCTGTTTATCACAGTAACATTGAGATGCTGAGCAGCATGGACTCAGCATCTGTTCCGATCATCAA  
 GCCTTTCTGCACCCAGACTCCAGGTGCTGACAGCCCTGCAGCCAGCTGCCATGATGCCGCCAGTA  
 CCTGCAGCTCCAAAACCTGGACCACAGAGGATGGACACCATCCAGGAAGACCCACGACAGACTCACATG  
 CAGATGATGACGGTTTTGAGAAGGACCCCTTCCCAACAGCAGCAGCTGCCAAGTCTTTGAGGATCT  
 CACAGACCCAGTACCAGGAGCGAAAAGGCGGCTCATTCAAGCTGCAGCGTCAGAGCCGAGTTGAC  
 AGCAAAGAGACAGAGTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231248 representing NM\_001277266  
Red=Cloning site Green=Tags(s)

MRRRLILTTLPFVLAAPRPPEEAGSGSHPRLEKLDSSLSDYDILSLANIQQHSIRKRDLSATHLETLT  
TFSALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQNFSGHVVGEPDSRVLAHIGDDDDVTVRI  
NTDGAEYNVEPLWRFVNDTKDKRMLVYKSEDIKDF SRLQSPKVCGYLNADSEELLPKGLIDREPSEEFVR  
RVKRRAEPNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLGYISGTRDRVTTDCFLEFLIELIDRVDDI  
YRNTSWDNAGFKGYGVQIEQIRILKSPQEVKGERHFNMAKSFNPEEKDAWDVKMLLEQFSFDIAEEASK  
VCLAHLFTYQDFDMGTLGLAYVGSPRANSHGGVCPKAYYNPTVKKNIYLN SGLTSTKNYGTKILTKEADL  
VTTHELGHNFGAEHDPDGLAECAPNEDQGGKYVMYPIAVSGDHENKMF SNCSKQSIYKTIESKAQECFQ  
ERSNKVCGNSRVDEGECDPGIMYLNNDTCCNSDCTLKPGVQCSDRNSPCCCKNCQFETAQKCKQEA INAT  
CKGVSYCTGNSSECPPPGAEDDTVCLDLGKCKAGKCIPFCKREQELESCACVDTDNSCKVCCRNL SGPC  
VPYVDAEQKNLFLRKGKPCVGFCDMNGKCEKRVQDVIERFDF IDQLSINTFGKFLADNIVGSVLVFSL  
IFWIPFSILVHCVDKLDKQYESLSLFHHSNIEMLSSMDSASVRIKPFPAQTPGRLQALQPAAMMPV  
PAAPKLDHQMDTIQEDPSTDSHADDDGFEDPFPNSSTA AKSFEDLTDHPVTRSEKAASFKLQRQSRVD  
SKETEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul



<b>ACCN:</b>	NM_001277266
<b>ORF Size:</b>	2538 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001277266.1</a> , <a href="#">NP_001264195.1</a>
<b>RefSeq Size:</b>	4508 bp
<b>RefSeq ORF:</b>	2541 bp
<b>Locus ID:</b>	11491
<b>UniProt ID:</b>	<a href="#">Q9Z0F8</a>
<b>Cytogenetics:</b>	12 8.3 cM
<b>MW:</b>	95.7 kDa
<b>Gene Summary:</b>	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]