

## Product datasheet for **MR207073**

### Tada2a (NM\_172562) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tada2a (NM_172562) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tada2a
Synonyms:	AV319371; D030022J10Rik; Tada2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207073 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGACCGTTTGGGTTCTTTAGCAATGACCCATCTGATAAGCCGCCCTGCAGAGGCTGCTCCTCTACC  
 TCACGGAACCTTACATTAATGTGCTGAATGTGGGCCCTCCTTTCTTCTGTGTTACAGTGTTCAC  
 TCGAGGATTTGAGTACAAGAAACATCAGAGTGATCACACTTACGAAATAATGACCTCAGACTTCCCTGTT  
 CTTGATCCAGCTGGACAGCGCAAGAAGAAATGGCCCTTTAGAACTGTAATGGACTGTGGCTTTGGAA  
 ATTGGCAGGATGTGGCTAATCAAATGTGCACAAAACCAAGGAGGAGTGTGAGAAGCACTACATGAAGCA  
 TTTTCATCAATAACCCCTGTGTTGCATCCACCCTGCTGAACCTGAAGCAAGCTGAGGCGGCCAAAGCTGCC  
 GACACAGCCATTCATTTCACTCCGAGATGACCTCCCCGGCCTGCCTTTGACTCATTGCTGTCTCGGG  
 ACATGGCAGGCTACATGCCAGCGCGGGCAGATTTTCATTGAGGAGTTTGACAATTATGCAGAATGGGACTT  
 AAGAGACATTGATTTTGTGAAGACGACTCAGACATCTTACATGCTCTGAAGATGGCTGTGGTGGATATC  
 TATCATTCCAGGTTAAAAGAGAGGCAAAGAAGAAAAAGATTATAAGAGATCACGGATTAGTCAACCTTA  
 GGAAGTCCGACTAATGGAACGGCGGTATCCCAAGGAGGTCGAAGACCTTATGAAACAATGAGGAGATT  
 TGCAAGGATTGTGGGACCCGTGGAGCACGACAAGTTTCATTGAAAGCCATGCATTGGAATTTGAACTCCGA  
 AGGGAAATCAAGAGGCTCCAAGAATATAGGACAGCAGGCATTACCAATTTTTGTAGTGCCAGGACATATG  
 ATCACCTGAAGAAGACACGAGAGGAGGAGCGCCTTAAACGCACCATGCTCTCAGAAGTTCACAGTACAT  
 CCAGGACAGCAGTGCCTGCCAGCAGTGGCTCCGCCGCGAGGCTGACATTGATTCTGGGCTGAGTCTTCT  
 GTTCTGATGGCTTCTAACTCAGGAAGGCGAAGTGCACCACCATTGAACCTCACGGTCTCCCTGGTACAG  
 AGAACTCAATGAAAAGGAAAAGGAGCTCTGTGAGGTGGTGAAGTTGGTACCTGGAGCTACTTGGAAATA  
 TAAGTCTGCTCTGTTGAACGAGTGTACAAGCAAGGAGGCTTGAGACTGGCACAAAGCAAGGGCAGCTCATC  
 AAGATAGACGTGAACAAAACCCGAAAAATCTATGACTTCTTATCCGAGAAGGTACATCACGAAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207073 protein sequence  
 Red=Cloning site Green=Tags(s)

MDRLGSFSNDPSDKPPCRGCSYLTPEYIKCAECGPPFFLCLQCFTRGFEYKHKHQSDHTYEIMTSDFPV  
 LDPSWTAQEEMALLEAVMDCFGNWDVANQMCTKTKEECEKHYMKHFINNPLFASTLLNLKQAEAAKAA  
 DTAIPFHSADPPRPAFDSLLSRDMAGYMPARADFIIEFDNYAEWDLRIDFVEDDSDILHALKMAVVDI  
 YHSRLKERQRRKKIIRDHGLVNLRKFRMLMERRYKPEVQDLYETMRRRFARIVGPVEHDKFIESHALEFELR  
 REIKRLQEYRTAGITNFCARTYDHLKKTREEERLKRMLSEVLQYIQDSSACQQLRRQADIDSGLSPS  
 VLMASNSGRRSAPPLNLTGLPGTEKLNKEKELCQVVRLVPGAYLEYKSALLNECHKQGLRLAQRALI  
 KIDVKNTRKIYDFLIREGYITKA

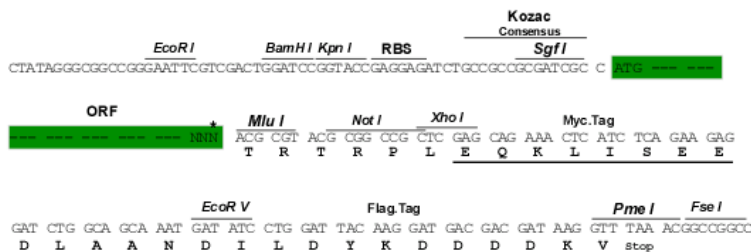
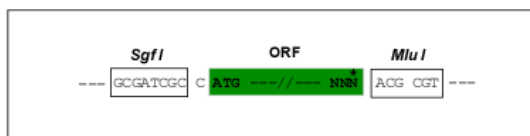
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_172562

**ORF Size:** 1332 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\\_172562.2](#)
**RefSeq Size:** 2119 bp

**RefSeq ORF:** 1332 bp

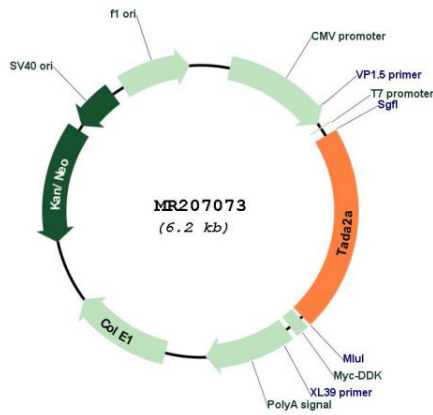
**Locus ID:** 217031

**UniProt ID:** [Q8CHV6](#)
**Cytogenetics:** 11 C

MW: 51.3 kDa

**Gene Summary:** Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4 (By similarity). Required for the function of some acidic activation domains, which activate transcription from a distant site (By similarity). Binds double-stranded DNA (PubMed:16299514). Binds dinucleosomes, probably at the linker region between neighboring nucleosomes (PubMed:16299514). Plays a role in chromatin remodeling (By similarity). May promote TP53/p53 'Lys-321' acetylation, leading to reduced TP53 stability and transcriptional activity (By similarity). May also promote XRCC6 acetylation thus facilitating cell apoptosis in response to DNA damage (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207073