

Product datasheet for **MG207073**

Tada2a (NM_172562) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tada2a (NM_172562) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tada2a
Synonyms:	AV319371; D030022J10Rik; Tada2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207073 representing NM_172562 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCGTTTGGGTTCTTTAGCAATGACCCATCTGATAAGCCGCCCTGCAGAGGCTGCTCCTCTACC
TCACGGAACCTTACATTAATGTGCTGAATGTGGGCCCTCTTTCTTCTGTGTTTACAGTGTTCAC
TCGAGGATTTGAGTACAAGAAACATCAGAGTGATCACACTACGAAATAATGACCTCAGACTTCCCTGTT
CTTGATCCAGCTGGACAGCGCAAGAAGAAATGGCCCTTTAGAAGCTGTAAATGGACTGTGGCTTTGGAA
ATTGGCAGGATGTGGCTAATCAAATGTGCACAAAACCAAGGAGGAGTGTGAGAAGCACTACATGAAGCA
TTTCATCAATAACCCTCTGTTTGATCCACCCTGCTGAACCTGAAGCAAGCTGAGGCGGCCAAAGCTGCC
GACACAGCCATTCCATTTCACTCCGCAGATGACCTCCCCGGCCTGCCTTTGACTCATTGCTGTCTCGGG
ACATGGCAGGCTACATGCCAGCGCGGGCAGATTTCAATGAGGAGTTTGACAATTATGCAGAAATGGGACTT
AAGAGACATTGATTTTGTGAAGACGACTCAGACATCTTACATGCTCTGAAGATGGCTGTGGTGGATATC
TATCATTCCAGGTTAAAAGAGAGGCAAAGAAGAAAAAGATTATAAGAGATCACGGATTAGTCAACCTTA
GGAAGTCCGACTAATGGAACGGCGGTATCCCAAGGAGGTCCAAGACCTTTATGAAACAATGAGGAGATT
TGCAAGGATTGTGGGACCCGTGGAGCACGACAAGTTCAATGAAAGCCATGCATTGGAATTTGAACTCCGA
AGGAAAATCAAGAGGCTCCAAGAATATAGGACAGCAGGCATTACCAATTTTGTAGTGCCAGGACATATG
ATCACCTGAAGAAGACAGGAGGAGGAGCGCCTTAAACGCACCATGCTCTCAGAAGTTCTCCAGTACAT
CCAGGACAGCAGTGCCTGCCAGCAGTGGCTCCGCCGCGCAGGCTGACATTGATTCTGGGCTGAGTCTTCT
GTTCTGATGGCTTCTAACTCAGGAAGGCGAAGTGCACCACCATTGAACCTCACGGGTCTCCCTGGTACAG
AGAAACTCAATGAAAAGGAAAAGGAGCTCTGTCAGGTGGTGGTGGTACCTGGAGCCTACTTGAATA
TAAGTCTGCTCTGTTGAACGAGTGTCAAGCAAGGAGGCTTGAGACTGGCACAAGCAAGGGCACTCATC
AAGATAGAGCTGAACAAAACCCGAAAACTATGACTTCTTATCCGAGAAGGTACATCACGAAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207073 representing NM_172562
 Red=Cloning site Green=Tags(s)

MDRLGSFSNDPSDKPPCRGCSSYLTEPYIKCAECGPPPFLLCLQCFTRGFEYKHKHSDHTYEIMTSDFPV
 LDPSWTAQEEMALLEAVMDCGFGNWQDVANQMCTKTKEECEKHYMKHFINNPLFASTLLNLKQAEAAKAA
 DTAIPFHSADPPRPAFDSLLSRDMAGYMPARADFIEEFDNYAEWDLRDIDFVEDDSDILHALKMAVVDI
 YHSRLKERQRRKKIIRDHGLVNLRKFRMLMERRYKPEVDLYETMRRFARIVGPVEHDKFIESHALEFELR
 REIKRLQEYRTAGITNFCSARTYDHLKKTREEERLKRMTLSEVLQYIQDSSACQQWLRQADIDSLSPS
 VLMASNSGRRSAPPLNLTGLPGTEKLNKEKELCQVVRLVPGAYLEYKSALLNECHKQGGLRLAQRALI
 KIDVKNTRKIYDFLIREGYITKA

TRTRPLE - GFP Tag - V

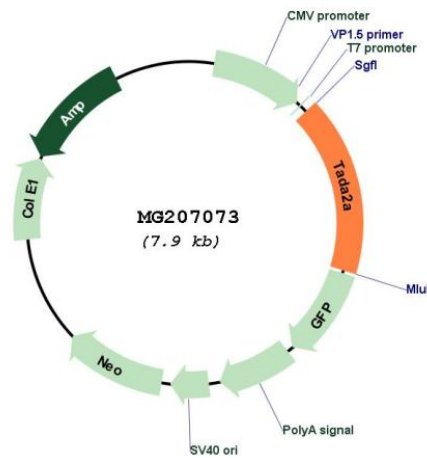
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_172562

ORF Size:	1329 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:	<ol style="list-style-type: none">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:	2135 bp
RefSeq ORF:	1332 bp
Locus ID:	217031
UniProt ID:	Q8CHV6
Cytogenetics:	11 C
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]