

Product datasheet for RR201809

Tada2a (NM_001012141) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tada2a (NM_001012141) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tada2a
Synonyms:	Tada2l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201809 representing NM_001012141 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACCGTTTGGGTTCTTTAGCAATGATCCATCTGATAAGCCACCTTGCAGAGGCTGCTCCTCTACC
TCATGGAACCTTACATTAATGTGCTGAATGTGGCCTCCTCTTCTTCTGTGCTTGCAGTGTTCAC
TAGAGGATTTGAGTACAAGAAACATCAGAGTGATCATACTTACGAAATAATGACCTCAGACTTCCCTGTT
CTTGATCCAGCTGGACAGCTCAGGAAGAAATGGCACTTTTAGAAGCTGTTATGGACTGTGGCTTTGGAA
ATTGGCAGGATGTTGCTAATCAGATGTGCACAAAACCAAGGAAGAGTGTGAGAAGCACTACATGAAACA
TTTTATCAATAACCCTCTGTTTGCATCCACCCTGCTAAACCTGAAGCAAGCTGAGGCAGCCAAAACCTGCC
GACACAGCCATTCATTTCACTCTGCAGATGACCCTCCCCGGCCTGCCTTTGATTCTGTTGCTGTCTCGGG
ACATGGCAGGATATATGCCAGCTCGGGCAGATTCATTGAGGAGTTTGACAATTATGCAGAATGGGACTT
AAGAGACATTGATTTTGTGAAGACGACTCGGACATCTTACACGCTCTGAAGATGGCTGTGGTGGATATC
TATCATTCCAGGTTAAAAGAGAGGCAAAGACGAAAAAAGATTATAAGAGATCACGGATTAGTTAACCTTA
GAAAGTTCCGACTGATGGAGCGTCGGTATCCTAAGGAGGTCGAAGACCTTTATGAAACGATGAGGAGATT
TGCAAGGATTGTGGACCAAGTGGAGCAGCACAAGTTTATTGAAAGCCATGCATTGGAATTTGAACTCCGA
AGGGAAATCAAGAGGCTCCAAGAATATAGGACAGCAGGCATTACCAATTTTTGTAGCGCCAGGACTTATG
ACCACCTGAAGAAGACACGAGAGGAGGAGCGCCTTAAACGCACCATGCTCTCAGAAGTTCTCCAGTACAT
CCAGGACAGCAGTGCCTGCCAGCAGTGGCTGCGCCGGCAGGCTGACATTGATTCTGGGCTGAGTCTTCT
GTTCTGATGGCTTCCAACCTCAGGAAGACGAGTGCACCACCTTGAACCTCACGGGTCTCCCTGGAACAG
AGAACTCAATGAAAAAGAAAAGGAGCTCTGTCAGGTGGTAAGGTTGGTACCTGGAGCCTATTTGGAATA
TAAGTCTGCTCTATTGAATGAGTGTCAAGCAAGGAGGCTTGAGACTGGCACAAGCAAGAGCACTCATC
AAGATAGACGTGAACAAAACCCGAAGATCTATGACTTCTCATCCGAGAAGGTTACATCACGAAAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR201809 representing NM_001012141
 Red=Cloning site Green=Tags(s)

MDRLGSFSNDPSDKPPCRGCSSYLMEPYIKCAECGPPFFFLCLQCFTRGFEYKHKHSDHTYEIMTSDFPV
 LDPSWTAQEEMALLEAVMDCGFQWQDVANQMCTKTKEECEKHVMKHFINNPLFASTLLNLKQAEAAKTA
 DTAIPFHSADPPRPAFDSLLSRDMAGYMPARADFIIEFDNYAEWDLRDIDFVEDDSDILHALKMAVVDI
 YHSRLKERQRRKKIIRDHGLVNLKRFRLMERRYKPEVQDLYETMRRRFARIVGPVEHDKFIESHALEFELR
 REIKRLQEYRTAGITNFCSARTYDHLKKTREEERLKRMLSEVLQYIQDSSACQQWLRQADIDSLSPS
 VLMASNSGRRSAPPLNLTGLPGTEKLNKEKELCQVVRLVPGAYLEYKSALLNECHKQGGLRLAQARALI
 KIDVKNTRKIYDFLIREGYITKA

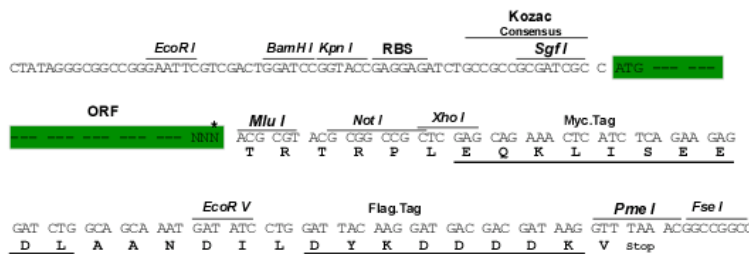
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

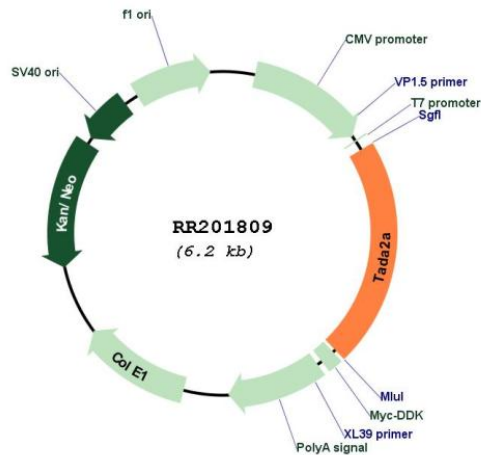
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001012141

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_001012141.1 , NP_001012141.1
RefSeq Size:	2124 bp
RefSeq ORF:	1332 bp
Locus ID:	360581
UniProt ID:	Q6AYE3
Cytogenetics:	10q26
MW:	51.4 kDa
Gene Summary:	Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4. Required for the function of some acidic activation domains, which activate transcription from a distant site. Binds double-stranded DNA. Binds dinucleosomes, probably at the linker region between neighboring nucleosomes. Plays a role in chromatin remodeling. May promote TP53/p53 'Lys-321' acetylation, leading to reduced TP53 stability and transcriptional activity. May also promote XRCC6 acetylation thus facilitating cell apoptosis in response to DNA damage.[UniProtKB/Swiss-Prot Function]