

Product datasheet for **RC200580**

ADA2a (TADA2A) (NM_133439) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADA2a (TADA2A) (NM_133439) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADA2a
Synonyms:	ADA2; ADA2A; hADA2; KL04P; TADA2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200580 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCGTTTGGGTTCCCTTTAGCAATGATCCCTCTGATAAGCCACCTTGCCGAGGCTGCTCCTCTACC
TCATGGAGCCTTATATCAAGTGTGCTGAATGTGGGCCACCTCTTTTTCCTCTGCTTGCAGTGTTCAC
TCGAGGCTTTGAGTACAAGAAACATCAAAGCGATCATACTTATGAAATAATGACTTCAGATTTTCCTGTC
CTTGATCCAGCTGGACTGCTCAAGAAGAAATGGCCCTTTAGAAGCTGTGATGGACTGTGGCTTTGGAA
ATTGGCAGGATGTAGCCAATCAAATGTGCACCAAGACCAAGGAGGAGTGTGAGAAGCACTATATGAAGTA
TTTCATCAATAACCCTCTGTTTGCATCTACCCTGCTGAACCTGAAACAAGCAGAGGAAGCAAAAACCTGCT
GACACAGCCATTCCATTTCACTCTACAGATGACCCCTCCCGACCTACCTTTGACTCCTTGCTTTCTCGGG
ACATGGCCGGGTACATGCCAGCTCGAGCAGATTTCAATGAGGAATTTGACAATTATGCAGAATGGGACTT
GAGAGACATTGATTTTGTGAAGATGACTCGGACATTTTACATGCTCTGAAGATGGCTGTGGTAGATATC
TATCATTCCAGGTTAAAGGAGAGACAAAGACGAAAAAATTATAAGAGACCATGGATTAATCAACCTTA
GAAAGTTCAATTAATGGAACGGCGGTATCCCAAGGAGGTCCAGGACCTGTATGAAACAATGAGGCGATT
TGCAAGAATTGTGGGCCAGTGGAAACATGACAAATTCATTGAAAGCCATGCATGTAGGTGTTTTTGAGC
CTTGAGCAGTATTTGTGTGTATATTTATATAAATAGGAGAGATAATGGTGTGTTTTATGTGAAGTTCT
ATAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200580 protein sequence
Red=Cloning site Green=Tags(s)

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MDRLGSFSNDPSDKPPCRGCSYLMPEYIKCAECGPPFFLCLQCFTRGFEYKKHQSDHTYEIMTSDFPV
LDPSWTAQEEMALLEAVMDCGFNGWQDVANQMCTKTKEECEKHVMKYFINNPLFASTLLNLKQAEAAKTA
DTAIPFHSTDDPPRPTFDSLLSRDMAGYMPARADFIEEFDNYAEWDLRDIDFVEDDSDILHALKMAVVDI
YHSRLKERQRRKKIIRDHGLINLRKFQLMERRYKPEVQDLYETMRRFARI VGPVEHDKFIESHACRWFLS
LEQYLCVYIYINRRDNGVFYVKFYK
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6388_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133439

ORF Size: 915 bp

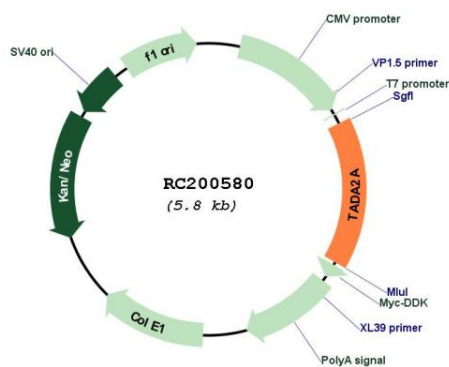
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

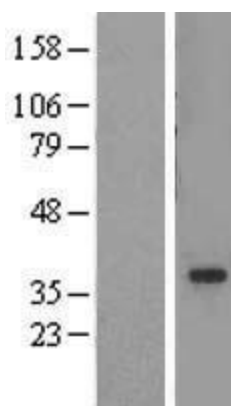
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_133439.4
RefSeq Size:	1327 bp
RefSeq ORF:	918 bp
Locus ID:	6871
UniProt ID:	O75478
Cytogenetics:	17q12
Protein Families:	Transcription Factors
MW:	36.1 kDa
Gene Summary:	<p>Many DNA-binding transcriptional activator proteins enhance the initiation rate of RNA polymerase II-mediated gene transcription by interacting functionally with the general transcription machinery bound at the basal promoter. Adaptor proteins are usually required for this activation, possibly to acetylate and destabilize nucleosomes, thereby relieving chromatin constraints at the promoter. The protein encoded by this gene is a transcriptional activator adaptor and has been found to be part of the PCAF histone acetylase complex. Several alternatively spliced transcript variants encoding different isoforms of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Oct 2009]</p>

Product images:



Circular map for RC200580



Western blot validation of overexpression lysate (Cat# [LY408783]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200580 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).