

Product datasheet for RC204271

ADAT3 (NM_138422) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADAT3 (NM_138422) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ADAT3
Synonyms: FWP005; MRT36; MST121; MSTP121; S863-5; TAD3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204271 representing NM_138422
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCCGCCCGGGCCTCGTGGAGCAGCCCAAGTGCTTGGAGCCGGGAGCCCGGAGCCTGAGCCGG
 CGCCGTGGCAGGCCCTCCTGTCTGTCCGAGAAGCAGTCAGGGGACGTGGAGCTGGTGTGGCCTACGC
 CGCGCCCGTCTGGACAAGCGCCAGACCTCACGCCTCTGAAGGAGGTGTGGCCCTGCACCCGCTCCCC
 GCCCAGCCTCACCTCAAGCGGGTGGGCCAGCCGCGATGCCGGCAGCCCCACGCCCTGGAGATGCTGC
 TTTGCCTGGCTGGCCGGCCTCGGGCCCGCTCGCTGGCTGAGCTCCTGCCACGGCCGGCTGTGGACCC
 CCGCGGCCTGGGCAACCCTTCTGGTGCCTGCCCCGCCGGCCGCTCTGACCAAGGGCCAGTTCGAG
 GAGGCCCGGGCCACTGGCCACGTCTTCCACGAGGACAAGCAGGTGACCAGCGCCCTGGCTGGCGGC
 TCTTCTCCACGCAGGAGCGCGCCCATGCAGAGCCACATGGAGCGGGCGGTGTGGCGGGCCCGGGC
 AGCAGCGCGGGGCTTGGGGCCGTGGGGCCGTGGTAGTGGACCCGGCCTCGGACCGCGTGTGGCCACC
 GGCCACGACTGCAGTGCAGCGGACAACCCCTCCTGCACGCCGTATGGTGTGCTGGACCTCGTGGCGC
 GCGGCCAGGGCCGCGCACCTACGACTTCAGACCTTCCCCGCTGTCTTCCGCCCGGGCCTGCCCC
 CCAGGCCGTCCGCGCAGGCGCCGTGCGTAACTGGACGACGAGGACGGCCTCCCCTACCTGTGCACT
 GGCTACGACCTGTACGTGACCCGAGCCCTGCGCCATGTGCCATGGCCCTGGTGCACGCAGCATCC
 TGGCGTCTTCTACGGTGCGCCCTCGCCGACGGCGCCCTGGGCACCCGCTTCCGCATCCACGCACGGCC
 CGACCTCAACCACCGCTTCCAGGTGTTCCGGGGTGTGGAGGAGCAGTGCCGCTGGCTGGACCCGAC
 ACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC204271 representing NM_138422
Red=Cloning site Green=Tags(s)

MEPAPGLVEQPKCLEAGSPEPEPAPWQALPVLSEKQSGDVELVLAAYAAPVLDKRQTSRLLKEVSALHPLP
 AOPHLKRVRPSRDAGSPHALEMLLCLAGPASGPRSLAELLPRPAVDPRGLGQPFLLVPVAPRPLTRGQFE
 EARAHWPTSFHEDKQVTSALAGRLFSTQERAAMQSHMERAVWAARRAAARGLRAVGAVVVDPASDRVLAT
 GHDCSCADNPLLHVMVCVDLVARGQGRGTYDFRPFACSFAPAAPQAVRAGAVRKLDADEDGLPYLCT
 GYDLYVTREPCAMCAMLVHARILRVFYGAPSPD GALTRFRIHARPD LNHRFQVFRGVLEE QCRWLDPD
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1555_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_138422

ORF Size: 1053 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_138422.1](#), [NP_612431.1](#)

RefSeq Size: 1597 bp

RefSeq ORF: 1104 bp

Locus ID: 113179

UniProt ID: [Q96EY9](#)

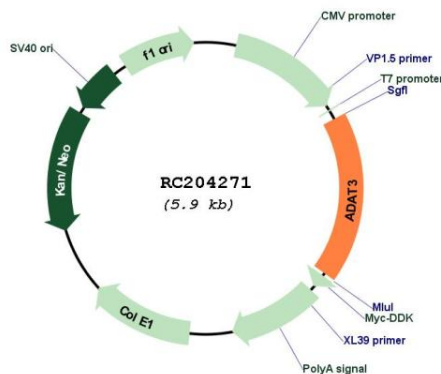
Cytogenetics: 19p13.3

Domains: dCMP_cyt_deam

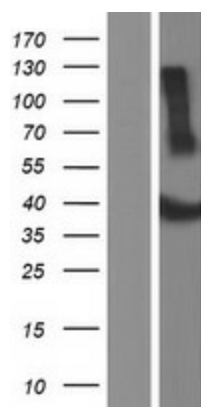
MW: 37.9 kDa

Gene Summary: This gene encodes a subunit of a tRNA-specific adenosine deaminase. This heterodimeric enzyme converts adenosine to inosine in the tRNA anticodon. A mutation in this gene causes a syndrome characterized by intellectual disability and strabismus. This gene shares its 5' exon with the overlapping gene, secretory carrier membrane protein 4 (Gene ID: 113178). [provided by RefSeq, Jul 2016]

Product images:



Circular map for RC204271



Western blot validation of overexpression lysate (Cat# [LY408678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204271 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).