

## Product datasheet for **RG204271**

### ADAT3 (NM\_138422) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ADAT3 (NM\_138422) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ADAT3  
**Synonyms:** FWP005; MRT36; MST121; MSTP121; S863-5; TAD3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG204271 representing NM\_138422  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGAGCCCGCCCGGGCCTCGTGGAGCAGCCCAAGTGCTTGGAGCCGGGAGCCCGGAGCCTGAGCCGG  
 CGCCGTGGCAGGCCCTCCTGTCTGTCCGAGAAGCAGTCAGGGGACGTGGAGCTGGTGTGGCCTACGC  
 CGCGCCCGTCTGGACAAGCGCCAGACCTCACGCCTCTGAAGGAGGTGTCGGCCCTGCACCCGCTCCCC  
 GCCCAGCCTCACCTCAAGCGGGTGGGCCAGCCGCGATGCCGGCAGCCCCACGCCCTGGAGATGCTGC  
 TTTGCCTGGCTGGGCCGGCCTCGGGCCCGCTCGCTGGCTGAGCTCCTGCCACGGCCGGCTGTGGACCC  
 CCGCGGCCTGGGGCAACCCTTCTGGTGCCTGCCCCGCCCGCCGCTCTGACCAGGGGCCAGTTTCGAG  
 GAGGCCCGGGCCACTGGCCACGTCCTTCCACGAGGACAAGCAGGTGACCAGCGCCCTGGCTGGGCGGC  
 TCTTCTCCACGCAGGAGCGCGCCCATGCAGAGCCACATGGAGCGGGCGGTGTGGGCGGGCCGGCGGGC  
 AGCAGCGCGGGGCTTGGGGCCGTGGGGCCGTGGTAGTGGACCCGGCCTCGGACCGCGTGTGGCCACC  
 GGCCACGACTGCAGTGCAGCGGACAACCCCTCCTGCACGCCGTATGGTGTGCGTGGACCTCGTGGCGC  
 GCGGCCAGGGCCGCGCACCTACGACTTCAGACCCTTCCCCGCTGCTCCTTCGCCCCGGCCGCTGCCCC  
 CCAGGCCGTCCGCGCAGGCGCCGTGCGTAACTGGACGACGAGGACGGCCTCCCCTACCTGTGCACT  
 GGCTACGACCTGTACGTGACCCGAGCCCTGCGCCATGTGCCATGGCCCTGGTGCACGCACGCATCC  
 TGCGGTCTTCTACGGTGCGCCCTCGCCGACGGCGCCCTGGGACCCGCTTCCGCATCCACGCACGGCC  
 CGACCTCAACCACCGCTTCCAGGTGTTCCGGGGTGTGGAGGAGCAGTGCCGCTGGCTGGACCCGAC  
 ACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204271 representing NM\_138422  
 Red=Cloning site Green=Tags(s)

MEPAPGLVEQPKCLEAGSPEPEPAPWQALPVLSEKQSGDVELVLAAYAAPVLDKRQTSRLLKEVSALHPLP  
 AQPHLKRVPRSRDAGSPHALEMLLCLAGPASGPRSLAELLPRPAVDPRGLGQPFLLVPVAPRPLTRGQFE  
 EARAHWPTSFHEDKQVTSALAGRLFSTQERAAMQSHMERAVWAARRAAARGLRAVGAVVVDPASDRVLAT  
 GHDCSCADNPLLHAVMVCVDLVARGQGRGTYDFRPFACSFAPAAPQAVRAGAVRKLDAEDGLPYLCT  
 GYDLYVTREPCAMCAMLVHARILRVFYGAPSPDGLGTRFRIHARPDNLNHRFQVFRGVLEEQRWLDPD  
 T

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

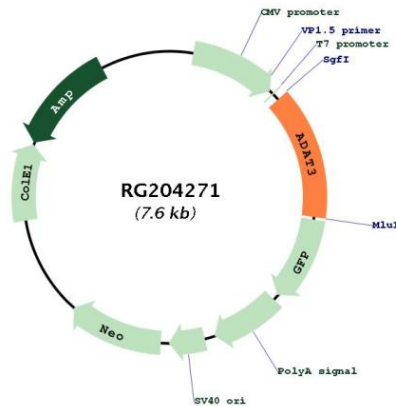
**UniProt ID:** [Q96EY9](#)

**Cytogenetics:** 19p13.3

**Domains:** dCMP\_cyt\_deam

**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 RG204271