

Product datasheet for **SC120451**

ADAT3 (NM_138422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAT3 (NM_138422) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAT3
Synonyms:	FWP005; MRT36; MST121; MSTP121; S863-5; TAD3
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138422, the custom clone sequence may differ by one or more nucleotides

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ATGATCCTCTGCTCCCGTCTCTGTCTCCACAGTCGGCCTCGCTGAGGATGGAGCCCGCCCCGGGCCTCG
TGGAGCAGCCCAAGTGCTTGGAGGCCGGGAGCCCCGGAGCCTGAGCCGGCGCCGTGGCAGGCCCTCCCTGT
CCTGTCCGAGAAGCAGTCAGGGGACGTGGAGCTGGTGTGGCCTACGCCGCGCCCGTCTGGACAAGCGC
CAGACCTCAGCCCTCCTGAAGGAGGTGTCGGCCCTGCACCCGCTCCCCGCCAGCCTCACCTCAAGCGGG
TGGCGCCAGCCGCGATGCCGGCAGCCCCACGCCCTGGAGATGCTGCTTTGCCTGGCTGGCGCCGCTC
GGGCCCGCGCTCGCTGGCTGAGCTCCTGCCACGGCCGGCTGTGGACCCCGCGGCCCTGGGCAACCCCTC
CTGGTGCCCGTGCCCGCCGGCCGCTCTGACCAGGGGCCAGTTCGAGGAGGCCCGGGCCCACTGGCCCA
CGTCCTTCCACGAGGACAAGCAGGTGACCAGCGCCCTGGCTGGCGGCTCTTCTCCACGCAGGAGCGCGC
CGCCATGCAGAGCCACATGGAGCGGGCGGTGTGGCGGCCCGGCCGGGCAGCAGCGCGGGGCTTGGCGGC
GTGGGGGCCGTGGTAGTGGACCCGGCCTCGGACCGCGTGTGGCCACCGGCCACGACTGCAGTGCAGCGG
ACAACCCCTCCTGCACGCCGTATGGTGTGCGTGGACCTCGTGGCGCGCGGCCAGGGCCGCGGCACCTA
CGACTTCAGACCCTTCCCCGCTGCTCCTTCGCCCCGGCCGCTGCCCCCAGGCCGTCCGCGCAGGCGCC
GTGCGTAAACTGGACGCAGACGAGGACGGCCTCCCTACCTGTGCACTGGCTACGACCTGTACGTGACCC
GCGAGCCCTGCGCCATGTGCGCCATGGCCCTGGTGCACGCACGCATCCTGCGCGTCTTCTACGGTGCGCC
CTCGCCGACGGCGCCCTGGGCACCCGCTTCCGCATCCACGCACGGCCCGACCTCAACCACCGCTTCCAG
GTGTTCCGCGGGGTGCTGGAGGAGCAGTGCCGCTGGCTGGACCCCGACACGTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_138422 unedited TGATTTGTATACGACTTACTATAGGCGGCCGCGCATTCCGGCACCAGGTCGGCCTCGCTGA GGATGGAGCCCGCCCGGGCCTCGTGGAGCAGCCCAAGTGCTTGGAGGCCGGGAGCCCGG AGCCTGAGCCGGCGCCGTGGCAGGCCCTCCCTGTCCTGTCCGAGAAGCAGTCAGGGGACG TGGAGCTGGTGTGGCCTACGCCGCGCCTTTCCTGGACAAGCGCCAGACCTCACGCCTCC TGAAGGAGGTGTGGCCCTGCACCCGCTCCCCGCCAGCCTCACCTCAAGCGGGTGCGGC CCAGCCCGGATGCCGGCAGCCCCACGCCCTGGAGATGCTGCTTTGCCTGGCTGGGCCGG CCTCGGGCCCGCCTCGCTGGCTGAGCTCCTGCCACGGCCGGCTGTGGACCCCGCGGCC TGGGGCAACCCTTCTGTGTCGGTGCCTGCCCCGCCCGCCGCTCTGACCAGGGGCCAGTTCCG AGGAGGCCCGGGCCACTGGCCACGTCCTTCCACGAGGACAAGCAGGTGACCAGCGCCC TGGCTGGCGGCTCTTCTCCACGCAGGAGCGCGCCGCCATGCAGAGCCACATGGAGNCGG CGGTGTGGGCGGCCGGCGGGCAGCAGCGCGGGGCTTGCGGGCCGTGGGGCCGTGGTAG TGGACCCGGCCTNCGACCGCTGCTGGGCCACCGCCACGACTGCAGCTGCGCGGACAACC CCTCTGCACGCCGTATGGTGTGCGTGGACCTCGTGGCGCGGCCAGGGCCCGGGCAC CTACGACTTTAGACCCTCCCCGGCTGCTCCTCCGCCCGCGCTGCCCAAGCCGTTCCG GGCAGGCCCTTGCCTTACCTGGACGCAACAAGACGGGCTTCCCTACTTGTGCACCGCT AAACCTGTCGTGAACGGGAGCCTGGGCCTGTGGCCATGGCTTTNGGCCGCCCCCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_138422
Insert Size:	1350 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_138422.1</u> , <u>NP_612431.1</u>
RefSeq Size:	1597 bp
RefSeq ORF:	1056 bp
Locus ID:	113179
UniProt ID:	<u>Q96EY9</u>
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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).