

## **Product datasheet for RC222951**

## OriGene Technologies, Inc.

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## Aprataxin (APTX) (NM\_017692) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Aprataxin (APTX) (NM 017692) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: Aprataxin

Synonyms: AOA; AOA1; aprataxin; ataxia 1, early onset with hypoalbuminemia; AXA1; EAOH; EOAHA; FHA-

HIT; FLJ20157; MGC1072; OTTHUMP00000021188

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC222951 representing NM\_017692

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCAGGACCCCAAAATGCAGGTTTACAAAGATGAGCAGGTGGTGGTGATAAAGGATAAATACCCAAAGGCCCGTTACCATTGGCTGGTCTTACCGTGGACCTCCATTTCCAGTCTGAAGGCTGTGGCCAGGGAACACCTTGAACTCCTTAAGCATATGCACACTGTGGGGGAAAAGGTGATTGTAGATTTTGCTGGGTCCAGCAAACTCCGCTTCCGATTGGGCTACCACGCCATTCCCGAGTATGAGCCATGTACATCTTCATGTGATCAGCCAGGATTTTGATTCTCCTTGCCTTAAAAAACAAAAAACATTGGAATTCTTTCAATACAGAATACTTCCTAGAATCACAAGCTGTGATCGAGATGGTACAAGAAGAACATCTGAAGCCTGTGATCGAGATGGGATGCCTGAGATCTTGAAGCTGCCCCTTCCGTTGTCATGAGTGCCAGCAGCTGCTTCCATTCCTCAGCTGAAAGAACATCTCAGGA

**AGCACTGGACACAG** 

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222951 representing NM\_017692

Red=Cloning site Green=Tags(s)

MQDPKMQVYKDEQVVVIKDKYPKARYHWLVLPWTSISSLKAVAREHLELLKHMHTVGEKVIVDFAGSSKL RFRLGYHAIPSMSHVHLHVISQDFDSPCLKNKKHWNSFNTEYFLESQAVIEMVQEAGRVTVRDGMPELLK

LPLRCHECQQLLPSIPQLKEHLRKHWTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



ORÏGENE

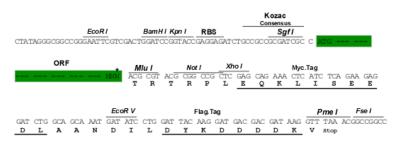
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6453">https://cdn.origene.com/chromatograms/mk6453</a> b09.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





The last codon before the Stop codon of the OR

**ACCN:** NM\_017692

ORF Size: 504 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: <u>NM 017692.2</u>, <u>NP 060162.1</u>

RefSeq Size: 2016 bp
RefSeq ORF: 506 bp
Locus ID: 54840



Cytogenetics: 9p21.1

**Domains:** HIT, zf-C2H2

**Protein Families:** Druggable Genome

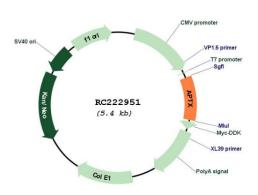
**MW:** 19.5 kDa

**Gene Summary:** This gene encodes a member of the histidine triad (HIT) superfamily. The encoded protein

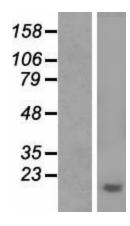
may play a role in single-stranded DNA repair through its nucleotide-binding activity and its diadenosine polyphosphate hydrolase activity. Mutations in this gene have been associated with ataxia-ocular apraxia. Alternatively spliced transcript variants have been identified for

this gene.[provided by RefSeq, Aug 2010]

## **Product images:**



Circular map for RC222951



Western blot validation of overexpression lysate (Cat# [LY406310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC224363] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).