

Product datasheet for **SC110489**

Aprataxin (APTX) (NM_017692) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aprataxin (APTX) (NM_017692) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aprataxin
Synonyms:	AOA; AOA1; aprataxin; ataxia 1, early onset with hypoalbuminemia; AXA1; EAOH; EOAHA; FHA-HIT; FLJ20157; MGC1072; OTTHUMP00000021188
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110489 sequence for NM_017692 edited (data generated by NextGen Sequencing)

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ATGCAGGACCCAAAATGCAGGTTTACAAAGATGAGCAGGTGGTGGTATAAAGGATAAA
TACCCAAAGGCCCGTTACCATTGGCTGGTCTTACCGTGGACCTCCATTTCCAGTCTGAAG
GCTGTGGCCAGGGAACACCTTGAACCTTAAGCATATGCACACTGTGGGGGAAAAGGTG
ATTGTAGATTTTGTGGTCCAGCAAACCTCCGCTTCCGATTGGGCTACCACGCCATTCCG
AGTATGAGCCATGTACATCTTCATGTGATCAGCCAGGATTTTGATTCTCCTTGCCTTAAA
AACAAAAACATTGGAATTCTTTCAATACAGAATACTTCTAGAATCACAAAGCTGTGATC
GAGATGGTACAAGAGGCTGGTAGAGTAACTGTCCGAGATGGGATGCCTGAGCTCTTGAAG
CTGCCCTTCGTTGTCATGAGTGCCAGCAGCTGCTGCCTTCCATTCTCAGCTGAAAGAA
CATCTCAGGAAGCACTGGACACAGTGA
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Clone variation with respect to NM_017692.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017692 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGGAAGCGGTGAGGCA
 CAGATGAGTAACGTGAATTTGTCCTCTCCGACTTCTGGAGAGTGATGATGCGGGTGTGC
 TGGTTGGTGAGACAGGACAGCCGGCACCAGCGAATCAGACTTCCACATTTGGAAGCAGTT
 GTGATTGGGCGTGGCCCAGAGACCAAGATCACTGATAAGAAATGTTCTCGACAGCAAGTT
 GAAAGCAGAGTGTAACAAGGGATATGTCAAGGTAAGCAGGTAGGAGTCAATCCCACCAG
 CATTGACTCAGTCGTAATTGGGAAGGACCAAGAGGTGAAGCTGCAGCCTGGCCAGTTCT
 CCACATGGTGAATGAACTTTATCCATATATTGTAGAGTTTGAGGAAGAGGCAAAGAACC
 TGGCCTGGAAACACAGGAAGAGAAAGAGATCAGGCAACAGTGATTCTATAGAAAGGGA
 TGCTGCTCAGGAAGCTGAGGCTGGGACAGGGCTGGAACCTGNGAGCAACTCTGGCCAATG
 CTCTGTGCCCTAAAGAAGGAAAAGATGCACCTATCAAAAAGGAATCCCTGGGCCACTG
 GAGTCAAGGCTTGAAGATTTCTATGCAGGACCCCAAAATGCAGGTTTACAAAGATGAGCA
 GGTGGTGGTGATAAAGGATAAATACCCAAAGGCCGTTACCATTGGCTGGTCTTACCGTG
 GACCTCCATTTNCAGTCTGAAGGCTGNTGCCAGGGAACACCTGNACTNCTTNAAGCATAT
 GCACACTGNTGGGAAANAGGGTATGTANATNTTGTGGGGTCANCANACTNCGCTTTC
 GATGGNGCTACCACGCCATTTTCGAGTATGAGGCATGTACATCTTTCATGTGATCAGCCAGG
 ATTTTGATCCTTCTGCTTTAAACANAAACATTGGNATCTTTAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017692 unedited
 ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTACTGTTTTATCCAAATTTATTCTCAGGGA
 AAAAGAAAGTAGTGGCTCTACGCAACTTTTTCATTACCAACCACCTTTCCATGCATCAG
 AACCTATGCTGTGATTGTTAGCTGAACTTCAATAGTTTCCACCTACTTAAGAGAGATGCC
 TCAAACAAATTAACCTTTATTTTCAGACAACAGGTCCAAGAAGACTTCACAGCTCAATCAT
 GACGAACATGTGGCTGTTTCTCACAGCCAGGAACCCCTCGGTATTAGAAGAAAATCCAA
 CCCCCACACCATCATCTAGCCTCTTTTCTCACTGTGAAGAACTGATGAGACAGAATTCC
 TGAGAAGGGAACATTTAGGTAATCTGGGATAGAAGGCCATGGAAGGACTGGACAAACTAA
 GCCTCCCCATGAAGGAAGGAAAAGAATATTACAAAACAGACTAACAGAAAACAAGACCC
 ATCAGTATCTTCAGGATAAACAAGAGGCCACTCTAGATGCTCTGATTAAAGGTTGTCCAT
 GCCTACAGAGGCCGAGGATAAATCTAAGACACAGAAATGTATAACCAGCCCAATGCTTCC
 ATACTCTGCATTAGGTCAGTGTGAACATGGGCTTGTCCCATGGTCAGACCTGACATGGG
 TCCTTCTGAAGATGGTGGTCAGGTATACCCACCCCTCACAAAATCCTTCTTGACAAC
 CCAATTCCTAATCTGAAGACTTGACCACTCTAATCGGGCCCTTATATAGACAAATTGGG
 AAAAATGCCTGTTTATTTAGGAAGGATAAAGTCCCAACTATCAAATGGGGCCCATTT
 GCTCCAGTGGCCCCACCCAGAACAGTCAGGCCTGGAATACTTGGTCACGTTCCCTGAAG
 CCTTCCCAGGAGGAAGGAACTTGTGCCCTCTACACCAGGCCCTCAAACCTGGCTCCT
 TTTGGAGTCTCTACCTCTGCCCTCCGACAA

Restriction Sites:

NotI-NotI

ACCN:

NM_017692

Insert Size:

2090 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:

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_017692.2](#), [NP_060162.1](#)

RefSeq Size: 2016 bp

RefSeq ORF: 507 bp

Locus ID: 54840

Cytogenetics: 9p21.1

Domains: HIT, zf-C2H2

Protein Families: Druggable Genome

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]

Transcript Variant: This variant (4) contains multiple differences in the 5' UTR and coding region compared to variant 1. The resulting isoform (d) contains a shorter N-terminus compared to isoform a.