

Product datasheet for **SC312880**

Aprataxin (APTX) (NM_175069) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aprataxin (APTX) (NM_175069) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aprataxin
Synonyms:	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_175069, the custom clone sequence may differ by one or more nucleotides

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ATGAGTAACGTGAATTTGTCCGTCTCCGACTTCTGGAGAGTGATGATGCGGGTGTGCTGGTTGGTGAGAC
AGGACAGCCGGCACCAGCGAATCAGACTTCCACATTTGGAAGCAGTTGTGATTGGCGTGGCCCAGAGAC
CAAGATCACTGATAAGAAATGTTCTCGACAGCAAGTACAGTTGAAAGCAGAGTGTAAACAAGGGATATGTC
AAGGTAAGCAGGTAGGAGTCAATCCCACCAGCATTGACTCAGTCGTAATTGGGAAGGACCAAGAGGTGA
AGCTGCAGCCTGGCCAGGTTCTCCACATGGTGAATGAACTTTATCCATATATTGTAGAGTTTGAGGAAGA
GGCAAAGAACCCTGGCCTGGAAACACACAGGAAGAGAAAGAGATCAGGCAACAGTGATTCTATAGAAAGG
GATGCTGCTCAGGAAGCTGAGGCTGGGACAGGGCTGGAACCTGGGAGCAACTCTGGCCAATGCTCTGTGC
CCCTAAAGAAGGAAAAGATGCACCTATCAAAAAGGAATCCCTGGGCCACTGGAGTCAAGGCTTGAAGAT
TTCTATGCAGGACCCAAAATGCAGTTTACAAAAGATGAGCAGGTGGTGGTGATAAAGGATAAATACCCA
AAGGCCGTTACCATTGGCTGGTCTTACCCTGGACCTCCATTTCCAGTCTGAAGGCTGTGGCCAGGGAAC
ACCTTGAACCTCCTAAGCATATGCACACTGTGGGGGAAAAGGTGATTGTAGATTTTGTGGTCCAGCAA
ACTCCGCTTCGATTGGGCTACCACGCCATTCCGAGTATGAGCCATGTACATCTTCATGTGATCAGCCAG
GATTTTGATTCTCCTTGCCTTAAAAACAAAAACATTGGAATCTTTCAATACAGAATACTTCTCTAGAAT
CACAAGAGTAG
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Restriction Sites:	Please inquire
ACCN:	NM_175069



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OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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:	NM_175069.1 , NP_778239.1
RefSeq Size:	2036 bp
RefSeq ORF:	921 bp
Locus ID:	54840
UniProt ID:	Q7Z2E3
Cytogenetics:	9p21.1
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 (2) has multiple differences compared to variant 1. This variant encodes isoform (g) which has a shorter C-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.