

## Product datasheet for RC224415

### Aprataxin (APTX) (NM\_175069) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aprataxin (APTX) (NM_175069) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aprataxin
Synonyms:	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224415 representing NM_175069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTAACGTGAATTTGTCCGTCTCCGACTTCTGGAGAGTGATGATGCGGGTGTGCTGGTTGGTGAGAC  
AGGACAGCCGGCACCAGCGAATCAGACTTCCACATTTGGAAGCAGTTGTGATTGGCGTGGCCCAGAGAC  
CAAGATCACTGATAAGAAATGTTCTCGACAGCAAGTACAGTTGAAAGCAGAGTGAACAAGGGATATGTC  
AAGGTAAGCAGGTAGGAGTCAATCCCACCAGCATTGACTCAGTCGTAATTGGGAAGACCAAGAGGTGA  
AGCTGCAGCCTGGCCAGTTCTCCACATGGTGAATGAACTTTATCCATATATTGTAGAGTTTGAGGAAGA  
GGCAAAGAACCCTGGCCTGGAAACACACAGGAAGAGAAAGAGATCAGGCAACAGTGATTCTATAGAAAGG  
GATGCTGCTCAGGAAGCTGAGGCTGGGACAGGGCTGGAACCTGGGAGCAACTCTGGCCAATGCTCTGTGC  
CCCTAAAGAAGGGAAAAGATGCACCTATCAAAAAGGAATCCCTGGGCCACTGGAGTCAAGGCTTGAAGAT  
TTCTATGCAGGACCCCAAATGCAGGTTTACAAAGATGAGCAGGTGGTGGTGATAAAGGATAAATACCCA  
AAGGCCGTTACCATTGGCTGGTCTTACCGTGGACCTCCATTTCCAGTCTGAAGGCTGTGGCCAGGGAAC  
ACCTTGAACCTTAAGCATATGCACACTGTGGGGGAAAAGGTGATTGTAGATTTTGTGGTCCAGCAA  
ACTCCGCTCCGATTGGGCTACCAGCCATTCCGAGTATGAGCCATGTACATCTTCATGTGATCAGCCAG  
GATTTTGATTCTCCTTGCCTTAAAAACAAAAACATTGGAATTTTCAATACAGAATACTTCTAGAAT  
ACAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC224415 representing NM\_175069  
Red=Cloning site Green=Tags(s)

MSNVNLSVSDFWRVMMRVCWLVRQDSRHRIRLPHLEAVVIGRGPETKITDKKCSRQQVQLKAECNKGYY  
 KVKQVGNPTSIDSVVIGKDQEVKLQPGQVLHMVNELYPYIVEFEEEEAKNPGLETHRKRKRSNGSDSIER  
 DAAQEA EAGTGLEPGSNGQCSVPLKKGKDAPIKKE SLGHWSQGLKISMQDPKMQVYKDEQVVVIKDKYP  
 KARYHWLVLPWTSISSLKAVAREHLELLKHMHTVGEKVI VDFAGSSKLRFR LGYHAIPSM SHVHLHVISQ  
 DFDSPCLKNKKHWNSFNTEYFLESQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8051\\_h01.zip](https://cdn.origene.com/chromatograms/mk8051_h01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175069

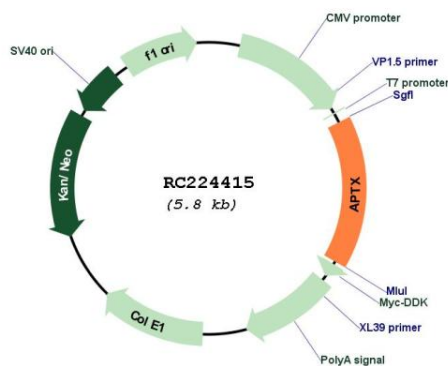
**ORF Size:** 918 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_175069.2</a>
<b>RefSeq Size:</b>	2036 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	54840
<b>UniProt ID:</b>	<a href="#">Q7Z2E3</a>
<b>Cytogenetics:</b>	9p21.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	34.7 kDa
<b>Gene Summary:</b>	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 RC224415