

Product datasheet for RC231125

Aprataxin (APTX) (NM_001195252) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aprataxin (APTX) (NM_001195252) 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:	>RC231125 representing NM_001195252 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAACGTGAATTTGTCCGCTCCGACTTCTGGAGAGTGATGATGCGGGTGTGCTGGTTGGTGAGAC
AGGACAGCCGGCACCAGCGAATCAGACTTCCACATTTGGAAGCAGTTGTGATTGGGCGTGGCCAGAGAC
CAAGATCACTGATAAGAAATGTTCTCGACAGCAAGTACAGTTGAAAGCAGAGTGAACAAGGGATATGTC
AAGGTAAGCAGGTAGGAGTCAATCCCACCAGCATTGACTCAGTCGTAATTGGGAAGGACCAAGAGGTGA
AGCTGCAGCCTGGCCAGTTCTCCACATGGAATCCCTGGGCCACTGGAGTCAAGGCTTGAAGATTTCTAT
GCAGGACCCAAAATGCAGGTTTACAAAGATGAGCAGGTGGTGGTGATAAAGGATAAATACCCAAAGGCC
CGTTACCATTTGGCTGGTCTTACCGTGGACCTCCATTTCCAGTCTGAAGGCTGTGGCCAGGGAACACCTTG
AACTCCTTAAGCATATGCACACTGTGGGGGAAAAGGTGATTGTAGATTTTGTGGTCCAGCAAACCTCCG
CTTCCGATTGGGCTACCACGCCATTCCGAGTATGAGCCATGTACATCTTCATGTGATCAGCCAGGATTTT
GATTCTCCTTGCCTAAAAACAAAAACATTGGAATCTTTCAATACAGAATACTTCTAGAAATCACAAG
CTGTGATCGAGATGGTACAAGAGGCTGGTAGAGTAACTGTCCGAGATGGGATGCCTGAGCTCTTGAAGCT
GCCCTTCGTTGTCATGAGTGCCAGCAGCTGCTGCCTTCCATTCTCAGCTGAAAGAACATCTCAGGAAG
CACTGGACACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231125 representing NM_001195252
Red=Cloning site Green=Tags(s)

MSNVNLSVSDFWRVMMRVCWLVRQDSRHQRIRLPHLEAVVIGRGPETKITDKKCSRQQVQLKAECNKGYY
 KVKQVGNPTSIDSVVIGKDQEVKLQPGQVLHMESLGHWSQGLKISMQDPKMQVYKDEQVVVVKDKYPKA
 RYHVLVLPWTSISSLKAVAREHLELLKHMHTVGEKVIIVDFAGSSKLRFRLLGYHAIPSMHVHLHVISQDF
 DSPCLKNKKHWNFSFNTFYFLESQAVIEMVQEAGRVTVRDGMPELLKPLRCHECQQLLPISIPQLKEHLRK
 HWTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8049_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195252

ORF Size: 852 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: [NM_001195252.1](#), [NP_001182181.1](#)

RefSeq ORF: 813 bp

Locus ID: 54840

UniProt ID: [Q7Z2E3](#)

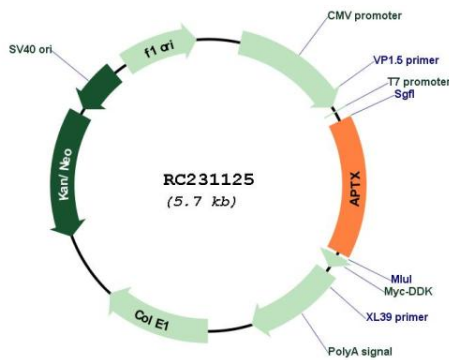
Cytogenetics: 9p21.1

Protein Families: Druggable Genome

MW: 33.4 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 RC231125