

## Product datasheet for **RG231131**

### Aprataxin (APTX) (NM\_001195254) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aprataxin (APTX) (NM_001195254) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APTX
Synonyms:	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231131 representing NM_001195254 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGCGGGTGTGCTGGTTGGTGAGACAGGACAGCCGGCACCAGCGAATCAGACTTCCACATTTGGAAG  
CAGTTGTGATTGGGCGTGGCCAGAGACCAAGATCACTGATAAGAAATGTTCTCGACAGCAAGAGTTTGA  
GGAAGAGGCAAAGAACCCTGGCCTGAAACACACAGGAAGAGAAAGAGATCAGGCAACAGTGATTCTATA  
GAAAGGGATGCTGCTCAGGAAGCTGAGGCTGGGACAGGGCTGGAACCTGGGAGCAACTCTGGCCAATGCT  
CTGTGCCCTAAAGAAGGAAAAGATGCACCTATCAAAAAGGAATCCCTGGGCCACTGGAGTCAAGGCTT  
GAAGATTTCTATGCAGGACCCCAAAATGCAGGTTTACAAAGATGAGCAGGTGGTGGTGATAAAGGATAAA  
TACCCAAAGGCCGTTACCATTGGCTGGTCTTACCGTGGACCTCCATTTCCAGTCTGAAGGCTGTGGCCA  
GGGAACACCTTGAACCTTAAGCATATGCACACTGTGGGGGAAAAGGTGATTGTAGATTTTGTGGGTC  
CAGCAAACCTCCGCTTCCGATTGGGCTACCACGCCATTCCGAGTATGAGCCATGTACATCTTCATGTGATC  
AGCCAGGATTTTATTCTCCTTGCCTTAAAAACAAAAACATTGGAATCTTTCAATACAGAATACTTCC  
TAGAATCACAAGCTGTGATCGAGATGGTACAAGAGGCTGGTAGAGTAAGTGTCCGAGATGGGATGCCTGA  
GCTCTTGAAGCTGCCCTTCGTTGTTCATGAGTGCCAGCAGCTGCTGCCTTCCATTCTCAGCTGAAAAGAA  
CATCTCAGGAAGCACTGGACACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG231131 representing NM\_001195254  
Red=Cloning site Green=Tags(s)

MMRVLCWLVQRQDSRHQRIPLPHLEAVVIGRGPETKITDKKCSRQQEFFFFFFAKNPGLETHRKRKRSGNSDSI  
 ERDAAQEAEAGTGLEPGSNSGQCSVPLKKGKDAPIKESLGHWSQGLKISMQDPKMQVYKDEQVVVIKDK  
 YPKARYHWLVLPWTSISSLKAVAREHLELLKHMHTVGEKVIIVDFAGSSKLRFRLYGHAIPSMHVLHVI  
 SQDFDSDPCLKNKKHWNSFNTEYFLESQAVIEMVQEAGRVTVRDGMPELLKPLRCHCECQQLLPSIPQLKE  
 HLRKHWHTQ

TRTRPLE - GFP Tag - V

**Restriction Sites:**

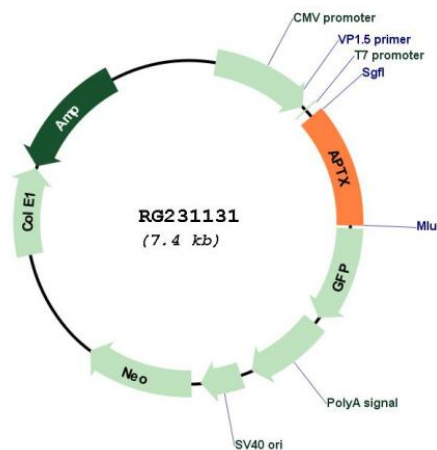
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001195254

**ORF Size:** 864 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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_001195254.1</a> , <a href="#">NP_001182183.1</a>
<b>RefSeq Size:</b>	1870 bp
<b>RefSeq ORF:</b>	867 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>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]