

## Product datasheet for **MG204974**

### Aptx (BC021872) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aptx (BC021872) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Aptx  
**Synonyms:** 2410016G21Rik; AA388047; FHA-HIT  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG204974 representing BC021872  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGCGAGTGTGCTGGTTGGTGAGACAGGACAGCAGGCACCAGCGAATCAAACCTCCCCATTTGGAAGCTG  
 TTGTGATTGGTCGAAGCCCAGAGACCAAGATCACAGATAAGAAATGTTCCCGACAGCAAGTACAGTTGAA  
 AGCAGAGTGTAAACAGGGATATGTCAAAGTACAGCAGATGGGGGTCAACCCACCAGCATTGACTCGGGC  
 GTCATCGGAAGGACCAAGAGAAGCTGCTGCTGCCTGGTCAGGTTCTCCACATGGTGAATGGACTTTATC  
 CATACTCGTAGAGTTTGGGAAGTGGCAGAGAGCCCTAACCTAACACAGAGGAAGAGAAAGAGGTCAGA  
 CTGTGATAGTGAGGAGATGGAAGCTGAGTCTGGGACAGGGCTGGCACCTGGGAGCAGCCCCAGCCAGTGC  
 TCTGTGTCCCCTAAGAAGGACAAGAATGGAGCCACCAAAAAGGAATCACTGGGCCACTGGAGTCAAGGCT  
 TGAAGATGTCTATGAAAGACCCCAAAATGCAGGTTTACAAAGACGACCAGGTGGTGGTGATTAAGGATAA  
 ATACCCCAAGGCCGTCACCACTGGCTGGTCTTACCGTGGGCCTCCATTTCCAGTCTGAAGGTTGTGACC  
 AGTGAACACCTTGAACCTCTCAAACATATGCACGCTGTGGGGGAGAAGGTGATAGCAGAGTTTGTGGAT  
 CCAGCAAACCTGCGCTCCGATTGGGCTACCATGCCATTCAGCATGAGCCACGTACATCTTCATGTGAT  
 CAGCCAGGATTTGATTCTCCTTGCCTTAAAAACAAAAAGCATTGGAATCTTTTAAACAGAATACTTT  
 CTGGAATCACAAGCTGTGATCAAGATGGTTCAGGAAGCCGGCAGAGTGACTGTTAAAGATGGCACTTGTG  
 AGCTCTTGAAGCTGCCTCTCCGTTGCCATGAGTGTGAGTGTGAGTGTGCTGCCTCCATCCCGCAGCTGAAAGA  
 GCACCTCAGGAAGCACTGGGGCGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204974 representing BC021872  
 Red=Cloning site Green=Tags(s)

MRVCWLVQRDSRHQRIKLPHEAVVIGRSPETKITDKKCSRQQVQLKAECNKGYVKVQMGVNPTSIDSG  
 VIGKDQEKLLPGQVLHMVNLYPYIVEFEEVAESPNLTQRKRKRSDCDSEEMEAESGTGLAPGSSPSQC  
 SVSPKDKNGATKKESLGHWSQGLKMSMKDPKMQVYKDDQVVVVIKDKYPKARHHWLVLPWASISSLKVVV  
 SEHLELLKHMHAVGEKVIAEFAGSSKLRFRLLGYHAIPSMHVHLHVISQDFDSPCLKNKKHWNFSNTEYF  
 LESQAVIKMVQEAGRVTVKDGTELLKPLRCHCECQQLLPSIPQLKEHLRKHG

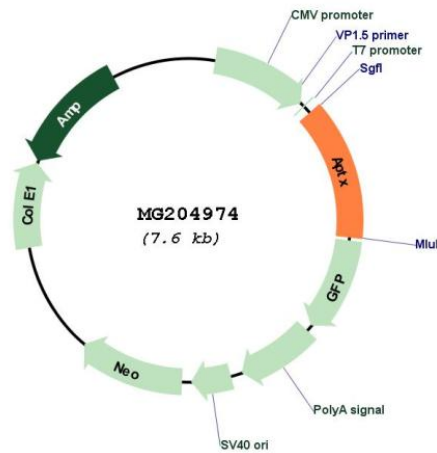
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC021872

**ORF Size:** 1007 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="#">BC021872</a> , <a href="#">AAH21872</a>
<b>RefSeq Size:</b>	1407 bp
<b>RefSeq ORF:</b>	1007 bp
<b>Locus ID:</b>	66408
<b>Cytogenetics:</b>	4 A5
<b>Gene Summary:</b>	DNA-binding protein involved in single-strand DNA break repair, double-strand DNA break repair and base excision repair. Resolves abortive DNA ligation intermediates formed either at base excision sites, or when DNA ligases attempt to repair non-ligatable breaks induced by reactive oxygen species. Catalyzes the release of adenylate groups covalently linked to 5'-phosphate termini, resulting in the production of 5'-phosphate termini that can be efficiently rejoined (PubMed:16964241). Also able to hydrolyze adenosine 5'-monophosphoramidate (AMP-NH <sub>2</sub> ) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity (By similarity). Likewise, catalyzes the release of 3'-linked guanosine (DNAppG) and inosine (DNAppI) from DNA, but has higher specific activity with 5'-linked adenosine (AppDNA) (By similarity).[UniProtKB/Swiss-Prot Function]