

## Product datasheet for MC226729

### Aptx (NM\_001025445) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aptx (NM\_001025445) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aptx  
**Synonyms:** 2410016G21Rik; AA388047; FHA-HIT  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226729 representing NM\_001025445  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGGTCAACCCACCAGCATTGACTCGGGCGTCATCGGAAGGACCAAGAGAAGAAGCTGCTGCCTG  
 GTCAGGTTCTCCACATGGTGAATGGACTTTATCCATACATCGTAGAGTTTGAGGAAGTGGCAGAGAGCCC  
 TAACCTAACACAGAGGAAGAGAAAGAGGTGACTGTGATAGTGAGGAGATGGAAGCTGAGTCTGGGACA  
 GGGCTGGCACCTGGGAGCAGCCCGCCAGTGTCTGTGTCCCTAAGAAGGACAAGAATGGAGCCACCA  
 AAAAGGAATCACTGGGCCACTGGAGTCAAGGCTTGAAGATGTCTATGAAAGACCCCAAAATGCAGGTTTA  
 CAAAGACGACCAGGTGGTGGTGAATTAAGGATAAATACCCCAAGGCCCGTCAACCTGGCTGGTCTTACCG  
 TGGGCCTCCATTTCCAGTCTGAAGGTTGTGACCAGTGAACACCTTGAACCTTCTCAAACATATGCACGCTG  
 TGGGGGAGAAGGTGATAGCAGATTTTGTGGATCCAGCAAACCTGCGCTTCCGATTGGGCTACCATGCCAT  
 TCCCAGCATGAGCCACGTACATCTTCAATGTGATCAGCCAGGATTTTGATTCTCCTTGCCTTAAAAACAAA  
 AAGCATTGGAATCTTTTAATACAGAATACTTTCTGGAATCACAAGCTGTGATCAAGATGGTTCAGGAAG  
 CCGGCAGAGTGACTGTTAAAGATGGCACTTGTGAGCTTTGAAGCTGCCTCTCCGTTGCCATGAGTGTCA  
 GCAGCTGCTGCCTCCATCCCGCAGCTGAAAGAGCACCTCAGGAAGCACTGGGGCCGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001025445  
**Insert Size:** 831 bp



[View online »](#)

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001025445.2</a></u> , <u><a href="#">NP_001020616.1</a></u>
<b>RefSeq Size:</b>	5549 bp
<b>RefSeq ORF:</b>	831 bp
<b>Locus ID:</b>	66408
<b>UniProt ID:</b>	<u><a href="#">Q7TQC5</a></u>
<b>Cytogenetics:</b>	4 A5
<b>Gene Summary:</b>	<p>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(2)) 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]</p> <p>Transcript Variant: This variant (3) uses an alternate splice site in the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform c, which has a shorter N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>