

## Product datasheet for **MR203707**

### Aptx (BC068309) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aptx (BC068309) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aptx
Synonyms:	2410016G21Rik; AA388047; FHA-HIT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR203707 representing BC068309 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGTCAACCCACCAGCATTGACTCGGGCGTCATCGGGAAGGACCAAGAGAAGAAGCTGCTGCCTG  
GTCAGGTTCTCCACATGGTGAATGGACTTTATCCATACATCGTAGAGTTTGAGGAAGTGGCAGAGAGCCC  
TAACCTAACACAGAGGAAGAGAAAGAGGTGACTGTGATAGTGAGGAGATGGAAGCTGAGTCTGGGACA  
GGGCTGGCACCTGGGAGCAGCCAGCCAGTGTCTGTGTCCCTAAGAAGGACAAGAATGGAGCCACCA  
AAAAGGAATCACTGGGCCACTGGAGTCAAGGCTTGAAGATGTCTATGAAAGACCCCAAAATGCAGGTTTA  
CAAAGACGACCAGGTGGTGGTATTAAGGATAAATACCCCAAGGCCCGTCACCACTGGCTGGTCTTACCG  
TGGGCCTCCATTTCCAGTCTGAAGGTTGTGACCAGTGAACACCTTGAACCTTCTCAAACATATGCACGCTG  
TGGGGGAGAAGGTGATAGCAGATTTTGTGGATCCAGCAAAGTCCGCTTCCGATTGGGCTACCATGCCAT  
TCCCAGCATGAGCCACGTACATCTTATGTGATCAGCCAGGATTTTGATTCTCCTTGCCTAAAAACAAA  
AAGCATTGGAATCTTTTAATACAGAATACTTTCTGGAATCACAAGCTGTGATCAAGATGGTTTCAGGAAG  
CCGGCAGAGTGACTGTTAAAGATGGCACTTGTGAGCTTTGAAGCTGCCTCCGTTGCCATGAGTGCA  
GCAGCTGCTGCCTCCATCCCGCAGCTGAAAGAGCACCTCAGGAAGCACTGGGGCCGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203707 representing BC068309  
Red=Cloning site Green=Tags(s)

MGVNPTSIDSGVIGKDQEKLLPGQVLHMVNL YPYIVEFEEVAESPNL TQRKRKRDSCDSEEMEAE SGT  
 GLAPGSSPSQCSVSPKDKNGATKKE SLGHWSQGLKMSMKDPKMVYKDDQVVV IKDKYPKARHHL VLP  
 WASISSLKVV TSEHLELLKHMHAVGEKVIAD FAGSSKLRFR LGYHAIPSM SHVHLHVISQDFD SPCLKNK  
 KHWNSFNTEYFLESQAVIKMVQEAGRVTVKDGTC ELLKPLRCH ECQQLLPSIPQLKEHLRKH WGG

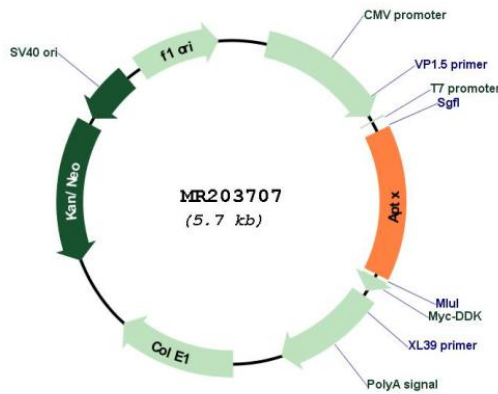
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC068309  
**ORF Size:** 828 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="#">BC068309</a>
<b>RefSeq Size:</b>	5171 bp
<b>RefSeq ORF:</b>	830 bp
<b>Locus ID:</b>	66408
<b>Cytogenetics:</b>	4 A5
<b>MW:</b>	189.5 kDa
<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]