

Product datasheet for MC201629

Aptx (NM_001025444) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aptx (NM_001025444) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aptx
Synonyms:	2410016G21Rik; AA388047; FHA-HIT
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC021872 sequence for NM_001025444 GCGGCGAGGCGCAGTAGAGCAGCGTGAAGTTTGTGGGTGCCACAGTCGAGAGCTAAGATGCGAGTGTGC TGGTTGGTGAGACAGGACAGCAGGCCAGCCAGCGAATCAAACCTCCCCATTTGGAAGCTGTTGTGATTGGTC GAAGCCCAGAGACCAAGATCACAGATAAGAAATGTTCCCGACAGCAAGTACAGTTGAAAGCAGAGTGTAA CAAGGGATATGTCAAAGTACAGCAGATGGGGTCAACCCACCAGCATTGACTCGGGCGTCATCGGGAAG GACCAAGAGAAGCTGCTGCTGCCTGGTCAGGTTCTCCACATGGTGAATGGACTTTATCCATACATCGTAG AGTTTGAGGAAGTGGCAGAGAGCCCTAACCTAACACAGAGGAAGAGAAAGAGGTCAGACTGTGATAGTA GGAGATGGAAGCTGAGTCTGGGACAGGGCTGGCACCTGGGAGCAGCCCCAGCCAGTGTCTGTGCCCT AAGAAGGACAAGAATGGAGCCACCAAAAAGGAATCACTGGGCCACTGGAGTCAAGCTTGAAGATGTCTA TAAAAGACCCCAAAATGCAGGTTTACAAAGACGACCAGGTGGTGGTGATTAAGGATAAATACCCCAAGC CCGTCACCACTGGCTGGTCTTACCGTGGGCCTCCATTTCCAGTCTGAAGTTGTGACCAGTGAACACCTT GAACTTCTCAAACATATGCACGCTGTGGGGGAGAAGGTGATAGCAGAGTTTGCTGGATCCAGCAAATGC GCTTCCGATTGGGCTACCATGCCATTCCAGCATGAGCCACGTACATCTTCATGTGATCAGCCAGGATTT TGATTCTCCTTGCCCTAAAAACAAAAGCATTGGAATTCTTTAAACAGAACTTTCTGGAATCACAA GCTGTGATCAAGATGGTTCAGGAAGCCGGCAGAGTGACTGTTAAAGATGGCACTTGTGAGCTCTTGAAGC TGCCTCTCCGTTGCCATGAGTGTGAGCAGCTGCTGCCCTCCATCCCGCAGCTGAAAGAGCACCTCAGGAA GCACTGGGGCGGGTGACTCTCGTCTCGGCGACCAAGGGCAGTGTAGCATCTATCCGATTGCCTATGCT CCATTCAATCCTGAACTAAAGCGTACACTTCTTCGAAACAAAGCTATTTATTCTTGAGCGGCCACACAT TGGTTGCACTCTGGTGTAAAGACTGGGAATTTGGGTTTTGTGGGTGATTCTCTGGTAATGGAGGCTGAG ACATGCCTGGTACCCTTCCAGGACCATGACAGGCCTGACTAATGAGAGGGCAGAGCCGCTTGAGACT CAAATGCACGATGTAGAAGCAGAGGATTGGTAATATATTTTGTCTACCCTCAAAAAAAAAAAAAAAAAA AAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_001025444
Insert Size:	1008 bp



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OTI Disclaimer:	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).
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:	<ol style="list-style-type: none"> 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:	BC021872 , AAH21872
RefSeq Size:	1407 bp
RefSeq ORF:	1008 bp
Locus ID:	66408
UniProt ID:	Q7TQC5
Cytogenetics:	4 A5
Gene Summary:	<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-NH₂) 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 (2) differs in the 5' UTR and the 5' coding region and initiates translation at a downstream start codon, compared to variant 1. It encodes isoform b, 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>