

Product datasheet for MG218020

Aptx (NM_025545) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Aptx (NM_025545) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Aptx

Synonyms: 2410016G21Rik; AA388047; FHA-HIT

Mammalian Cell Neomycin

Selection:

Vector:

pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG218020 representing NM_025545

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218020 representing NM_025545

Red=Cloning site Green=Tags(s)

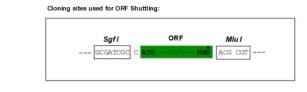
MPEAVAKMRVCWLVRQDSRHQRIKLPHLEAVVIGRSPETKITDKKCSRQQVQLKAECNKGYVKVQQMGVN PTSIDSGVIGKDQEKKLLPGQVLHMVNGLYPYIVEFEEVAESPNLTQRKRKRSDCDSEEMEAESGTGLAP GSSPSQCSVSPKKDKNGATKKESLGHWSQGLKMSMKDPKMQVYKDDQVVVIKDKYPKARHHWLVLPWASI SSLKVVTSEHLELLKHMHAVGEKVIADFAGSSKLRFRLGYHAIPSMSHVHLHVISQDFDSPCLKNKKHWN SFNTEYFLESQAVIKMVQEAGRVTVKDGTCELLKLPLRCHECQQLLPSIPQLKEHLRKHWGG

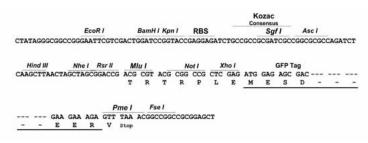
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3125 g01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





ACCN: NM_025545

ORF Size: 1026 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore,

OriGone does not guarantee the capability to replicate this plasmid DNA. Additional amounts

OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customercare te

calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

Aptx (NM_025545) Mouse Tagged ORF Clone - MG218020

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: NM 025545.4, NP 079821.3

RefSeq Size: 5689 bp
RefSeq ORF: 1029 bp
Locus ID: 66408
UniProt ID: Q7TQC5
Cytogenetics: 4 A5

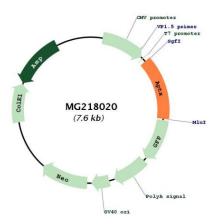
Gene Summary: DNA-binding protein involved in single-strand DNA break repair, double-strand DNA break

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]



Product images:



Circular map for MG218020