

Product datasheet for **MG215194**

Apoo (NM_026673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Apoo
Synonyms: 0610008C08Rik; 1110019O03Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215194 representing NM_026673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCAAGGTAATTCAGAGATCTGTGGGGCCAGCCAGCCTGAGCCTGCTCACCTTCAGAGTCTATGCAG
CACCCAAAAGGACTCGCTCACAAAAGTTACATGAAGATCGATGAGCTTTCACTCTACTCAGTTCTCTGA
GGGTCAATCTAAATATGTGGAGGAGCAAGGACTCAACTTGAAGAAAACATCTCACAACCTCCGACATCAT
TGTGAGCCATATAACAAGTTTCTGTGAGAAATACTCCATACTAAACCAAGGTGGATCACTTTGTCC
AGTGGGGAGTAGACAACATAACTATCTTCAAAAATGCGCCTCCTGGATTTTCCCAAGACTCGGTGTTAT
TGGTTTTGCTGTTTTGTTGGACTCCTTTTTGCTAGAGGTTCAAAAATAAAGAAGCTGGTGTATCCTCCT
TTTTTCATGGGATTAGGTGCCTCTGTCTATTACCCACAACAAGCCATCACCATTGCCAGATCACTGGGG
AGAAGTTATGACTGGGATTACGAGGTACATAGTTATAGAAGATTTGTGGAAGCAAAAATTTTCAGAA
GCCAGGAAATGTGAAGAATTCACCTGGAATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG215194 representing NM_026673
Red=Cloning site Green=Tags(s)

MFKVIQRVSGPASLSLLTFRVYAAPKKDSPHKSVMKIDELSLYSVPEGQSKYVEEPRTQLEENISQLRHH
CEPYTSFCQEIYSHTKPKVDHFVQWGVNDYNYLQNAAPPGFPPRLGVIGFAGFVGLLFARGSKIKKLVYPP
FFMGLGASVYYPQQAITIAQITGEKLYDWGLRGYIVIEDLWKQNFQKPGNVKNSPGNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_026673

ORF Size: 594 bp

OTI Disclaimer: 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. [More info](#)

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_026673.4](#), [NP_080949.2](#)

RefSeq Size: 920 bp

RefSeq ORF: 597 bp

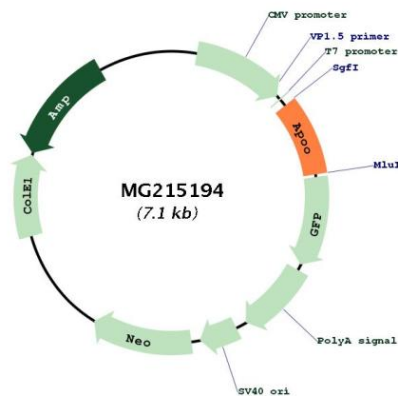
Locus ID: 68316

UniProt ID: [Q9DCZ4](#)

Cytogenetics: X C3

Gene Summary: Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Plays a crucial role in crista junction formation and mitochondrial function (By similarity). Can induce cardiac lipotoxicity by enhancing mitochondrial respiration and fatty acid metabolism in cardiac myoblasts (PubMed:24743151). Promotes cholesterol efflux from macrophage cells. Detected in HDL, LDL and VLDL. Secreted by a microsomal triglyceride transfer protein (MTTP)-dependent mechanism, probably as a VLDL-associated protein that is subsequently transferred to HDL (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215194