

Product datasheet for **MG220526**

Apoa2 (NM_013474) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apoa2 (NM_013474) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apoa2
Synonyms: A; AI; Alp-2; Ap; Apo-All; Apoa-2; ApoA-II; ApoAll; Hdl-; Hdl-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220526 representing NM_013474
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTGCTCGCAATGGTCGCACTGCTGGTCACCATCTGTAGCCTGGAAGGAGCTTTGGTTAAGAGAC
AGGCAGACGGACCGGATATGCAGAGCCTGTTCACTCAATACTTTTCAGAGCATGACTGATTATGGCAAAGA
TTTGATGGAGAAGGCCAAGACCTCAGAGATTCAGAGCCAGGCCAAGGCATACTTTGAGAAGACACACGAG
CAGCTGACACCCCTTGTGAGTTCAGGACTCAGCAGGAAGTCTGGTGAACCTCTTCAGCAGTTAATGAACCTTG
AGGAGAAACCGGCTCCTGCGGTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220526 representing NM_013474
Red=Cloning site Green=Tags(s)
MKLLAMVALLVTICSLLEGALVKRQADGPDMSLFTQYFQSM TDYKDLMEKAKTSEIQSQAKAYFEKTHE
QLTPLVRSAGTSLVNFSSLMNLEEKPAAPAK

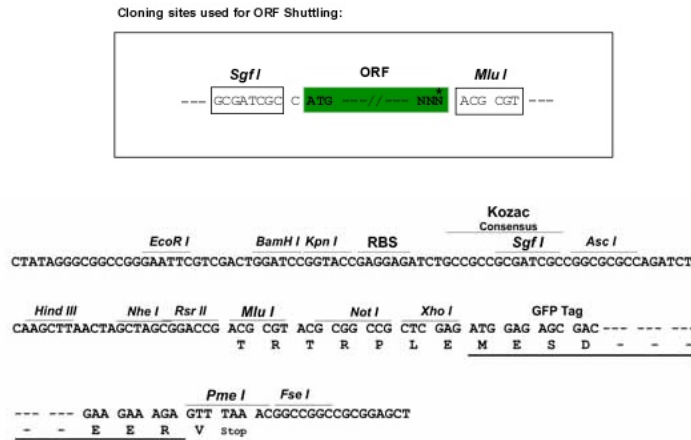
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

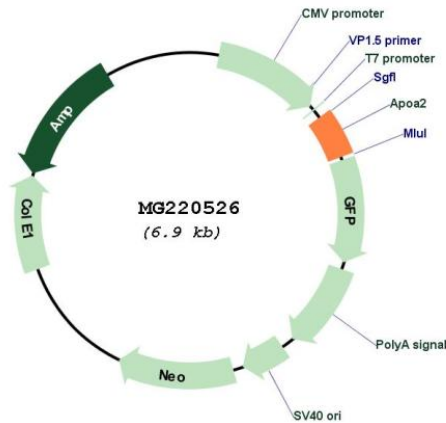


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_013474

ORF Size:

306 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:	<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:	<u>NM_013474.2</u> , <u>NP_038502.2</u>
RefSeq Size:	521 bp
RefSeq ORF:	309 bp
Locus ID:	11807
UniProt ID:	<u>P09813</u>
Cytogenetics:	1 79.22 cM
Gene Summary:	This gene encodes a component of high density lipoproteins (HDL). Mice lacking the encoded protein have low HDL-cholesterol levels, smaller HDL particles, increased clearance of triglyceride-rich lipoproteins and insulin hypersensitivity. Transgenic mice overexpressing the encoded protein have elevated levels of HDL-cholesterol and show increased susceptibility to atherosclerosis. Alternative splicing of this gene results in multiple variants. [provided by RefSeq, Mar 2015]