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Product datasheet for RG222222

APOA4 (NM_000482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOA4 (NM_000482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APOA4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG222222 representing NM_000482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCTGAAGGCCGTGGTCCTGACCCTGGCCCTGGTGGCTGTCGCCGGAGCCAGGGCTGAGGTCAGTG
CTGACCAGGTGGCCACAGTGATGTGGGACTACTTCAGCCAGCTGAGCAACAATGCCAAGGAGGCCGTGGA
ACATCTCCAGAAATCTGAACTCACCCAGCAACTCAATGCCCTCTTCCAGGACAAACTTGGGGAAGTGAAC
ACTTACGCAGGTGACCTGCAGAAGAAGCTGGTGCCCTTTGCCACCGAGCTGCATGAACGCCTGGCCAAGG
ACTCGGAGAAACTGAAGGAGGAGATTGGGAAGGAGCTGGAGGAGCTGAGGGCCCGGCTGCTGCCCCATGC
CAATGAGGTGAGCCAGAAGATCGGGGACAACCTGCGAGAGCTTCAGCAGCGCCTGGAGCCCTACGCGGAC
CAGCTGCGCACCCAGGTCAACACGCAGGCCGAGCAGCTGCGGCGCCAGCTGACCCCCTACGCACAGCGCA
TGGAGAGAGTGCTGCGGGAGAACGCCGACAGCCTGCAGGCCTCGCTGAGGCCCCACGCCGACGAGCTCAA
GGCCAAGATCGACCAGAACGTGGAGGAGCTCAAGGGACGCCTTACGCCCTACGCTGACGAATTCAAAGTC
AAGATTGACCAGACCGTGGAGGAGCTGCGCCGCAGCCTGGCTCCCTATGCTCAGGACACGCAGGAGAAGC
TCAACCACCAGCTTGAGGGCCTGACCTTCCAGATGAAGAAGAACGCCGAGGAGCTCAAGGCCAGGATCTC
GGCCAGTGCCGAGGAGCTGCGGCAGAGGCTGGCGCCCTTGGCCGAGGACGTGCGTGGCAACCTGAGGGGC
AACACCGAGGGGCTGCAGAAGTCACTGGCAGAGCTGGGTGGGCACCTGGACCAGCAGGTGGAGGAGTTCC
GACGCCGGGTGGAGCCCTACGGGGAAAACTTCAACAAAGCCCTGGTGCAGCAGATGGAACAGCTCAGGCA
GAAACTGGGCCCCCATGCGGGGGACGTGGAAGGCCACTTGAGCTTCCTGGAGAAGGACCTGAGGGACAAG
GTCAACTCCTTCTTCAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAGACTCTCTCCCTCCCTGAGCTGG
AGCAACAGCAGGAACAGCAGCAGGAGCAGCAGGAGCAGGTGCAGATGCTGGCCCCTTTGGAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

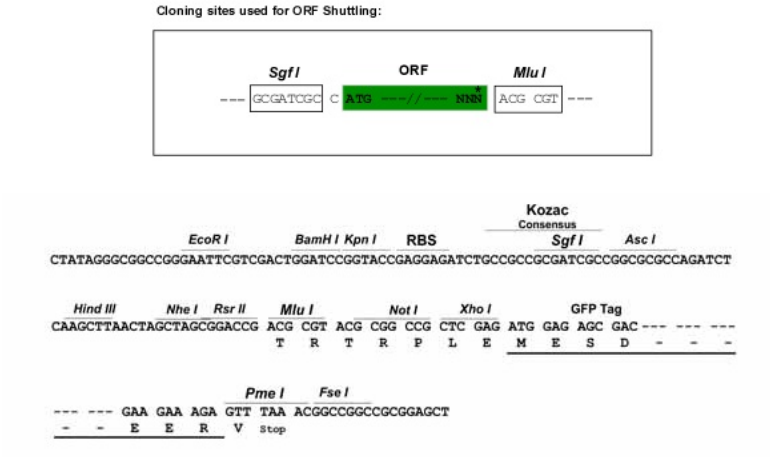
>RG222222 representing NM_000482
Red=Cloning site Green=Tags(s)

MFLKAVVLTLALVAVAGARAEVSADQVATVMWDYFSQLSNNAKEAVEHLQKSELTQQLNALFQDKLGEVN
TYAGDLQKKLVPFATELHERLAKDSEKLKEEIGKELEELRARLLPHANEVSQKIGDNLRELQQRLEPYAD
QLRTQVNTQAEQLRRQLTPYAQRMERVLRENADSLQASLRPHADELKAKIDQNVEELKGRLTPYADEFKV
KIDQTVEELRRSLAPYAQDTQEKLNHQLEGLTFQMKKNAEELKARISASAEELRQRLAPLAEDVRGNLRG
NTEGLQKSLAELGGHLDQQVEEFRRRVEPYGENFNKALVQQMEQLRQKLGPHAGDVEGHLSFLEKDLRDK
VNSFFSTFKEKESQDKTLSLPELEQQQEQQQEQQQEQVQMLAPLES

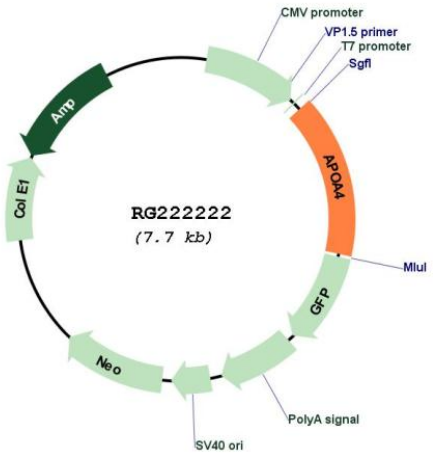
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_000482

ORF Size:	1188 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.
RefSeq:	NM_000482.3, NP_000473.2
RefSeq Size:	1460 bp
RefSeq ORF:	1191 bp
Locus ID:	337
UniProt ID:	P06727
Cytogenetics:	11q23.3
Protein Families:	Secreted Protein
Gene Summary:	Apoliprotein (apo) A-IV gene contains 3 exons separated by two introns. A sequence polymorphism has been identified in the 3'UTR of the third exon. The primary translation product is a 396-residue preprotein which after proteolytic processing is secreted its primary site of synthesis, the intestine, in association with chylomicron particles. Although its precise function is not known, apo A-IV is a potent activator of lecithin-cholesterol acyltransferase in vitro. [provided by RefSeq, Jul 2008]