

Product datasheet for **RG208325**

APOL3 (NM_014349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOL3 (NM_014349) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APOL3
Synonyms:	apoL-III; APOLIII; CG12_1; CG121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208325 representing NM_014349 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCAGAAAAGAAACGCTTTACTGAAGAGGCCACCAAACTTCGGGAGAGAGTCAGCCCAGTGC
ATCTGCAAATCCTGCTGACTAACAATGAAGCCTGGAAGAGATTCGTGACTGCGGCTGAATTGCCAGGGA
TGAGGCAGATGCTCTACGAAGCTCTGAAGAAGCTTAGAACATATGCAGCTATTGAGGACGAATATGTG
CAGCAGAAAGATGAGCAGTTTAGGGAATGGTTTTGAAAGAGTTCCCCAAGTCAAGAGGAAGATCCAGG
AGTCCATAGAAAAGCTTCGTGCCCTTGCAAATGGTATTGAAGAGGTCCACAGAGGCTGCACCATCTCAA
TGTGGTGTCCAGCTCCACTGGCGCTGCCTCTGGCATCATGTCCCTTGCTGGTCTTGTGGCACCATT
ACAGCAGGGACGAGTCTGGCCCTTACTGCAGCTGGGGTAGGGCTGGGAGCAGCGTCTGCTGTGACTGGGA
TCACCACCAGCATCGTGGAGCACTCATACACATCATCAGCAGAAGCTGAAGCCAGCAGGCTGACTGCAAC
CAGCATTGACCGATTGAAGGATTTAAGGAAGTTATGCGTGACATCACACCAACTTACTTTCCCTTCTT
AATAATTATTACGAAGCCACACAAACCATTGGGAGTGAATCCGTGCCATCAGGCAAGCCAGAGCCAGGG
CCCGACTCCCTGTGACCACCTGGCGAATCTCAGCTGGAAGTGGAGGTCAAGCAGAGAGAACGATTGCAGG
CACCACCCGGGCAGTGAGCAGAGGAGCCCGGATCCTGAGTGCACCACTCAGGCATCTTCTTGCAGTG
GATGTGGTCAACCTTGTATACGAGTCAAAGCACTTGCATGAGGGGCAAAGTCTGCATCTGCTGAGGAGC
TGAGGCGGCAGGCTCAGGAGCTGGAGGAACTAATGGAGCTCACTCAGATCTATCAGCGTCTGAATCC
ATGCCATACCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208325 representing NM_014349
 Red=Cloning site Green=Tags(s)

MDSEKKRFTEEATKYFRERVSPVHLQILLTNNEAWKRFVTADELPRDEADALYEALKKLRTYAAIEDEYV
 QQKDEQFREWFLKEFPQVKRKIQESIEKLRALANGIEEVHRGCTISNVVSSSTGAASGIMSLAGLVLAPF
 TAGTSLALTAAGVGLGAASAVTGITTSIVEHSYSSAEAEASRLTATSIDRLKVFKEVMRDITPNLLSLL
 NNYYEATQTIGSEIRAIRQARARARLPVTTWRISAGSGGQAERTIAGTTTRAVSRGARILSATTSGIFLAL
 DVVNLVYESKHLHEGAKSASAEELRRQAQLEENLMELTQIYQRLNPCHTH

TRTRPLE - GFP Tag - V

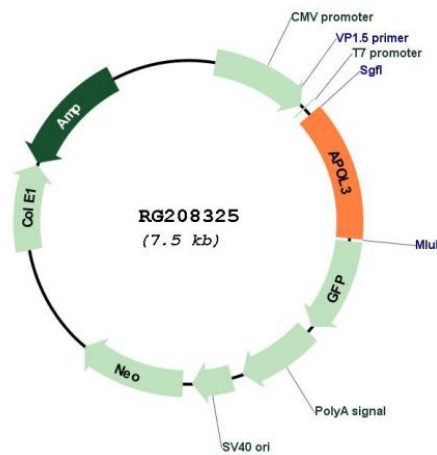
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_014349

ORF Size: 993 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:	NM_014349.2 , NP_055164.1
RefSeq Size:	2444 bp
RefSeq ORF:	996 bp
Locus ID:	80833
UniProt ID:	O95236
Cytogenetics:	22q12.3
Gene Summary:	This gene is a member of the apolipoprotein L gene family, and it is present in a cluster with other family members on chromosome 22. The encoded protein is found in the cytoplasm, where it may affect the movement of lipids, including cholesterol, and/or allow the binding of lipids to organelles. In addition, expression of this gene is up-regulated by tumor necrosis factor-alpha in endothelial cells lining the normal and atherosclerotic iliac artery and aorta. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]