

Product datasheet for **RG206021**

APPL (APPL1) (NM_012096) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | APPL (APPL1) (NM_012096) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | APPL |
| Synonyms: | APPL; DIP13alpha; MODY14 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>RG206021 representing NM_012096
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCGGGATCGACAAGCTGCCATCGAGGAGACGCTGGAGGACAGCCCGACACAAGGTCTTTACTGG
GTGATTTGAAGAAGATGCCACAGCTATTTCCAACATATGAACCAAGTTGTATCAAGCTATGCATCGGAT
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CAGCGTTTTCCATTGGGAGGTGATGATGAAGTTATGAGCTCTACATTGCAACAGTTTTCAAAAGTTATAG
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CAGTGATCCCTTATATGTGCCTGACCCAGACCCCAAAATTTCTGTTAATCGAAATTTAACCCGAAAG
GCTGGATACCTTAATGCTAGGAATAAAACAGGCTTGGTGTGCATCTACCTGGGACAGACAGTTTTACTTCA
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CCGACAGCTCGAACAGCAGTTCAGGATCCTTAGGATCTGAGTCTACAAATTTGGCTGCCCTCTCTCTAG
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CTTTCGTATGACAGAATCGATTTATTAGTCACTTGTGACTGTTTAAAGTTAATTGATCCACAGACACAA
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CTGGATCGTAGGGCATCAGAAAAACAAAAGAAAATAGAGAGAGTAAAAGAGAAGCAACAGAAAGAACTCA
ATAAACAAAAACAGATTGAAAAGGACTTGGAAAGCAAAAGTCGGTTGATAGCTGCTTCCAGTAGACCAAA
CCAAGCCAGTAGTGAGGGGCAGTTTGTTCCTTAGCAGTAGCCAGTCAGAAGAGAGTGATTTGGGAGAA
GGAGGAAAGAAGAGAGAATCAGAAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG206021 representing NM_012096
 Red=Cloning site Green=Tags(s)

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MPGIDKLP I E E T L E D S P Q T R S L L G V F E E D A T A I S N Y M N Q L Y Q A M H R I Y D A Q N E L S A A T H L T S K L L K E Y E K
Q R F P L G G D E V M S S T L Q Q F S K V I D E L S S C H A V L S T Q L A D A M M F P I T Q F K E R D L K E I L T L K E V F Q I A S N D H
D A A I N R Y S R L S K K R E N D K V K Y E V T E D V Y T S R K K Q H Q T M M H Y F C A L N T L Q Y K K K I A L L E P L L G Y M Q A Q I S F
F K M G S E N L N E Q L E E F L A N I G T S V Q N V R R E M D S D I E T M Q Q T I E D L E V A S D P L Y V P D P D P T K F P V N R N L T R K
A G Y L N A R N K T G L V S S T W D R Q F Y F T Q G G N L M S Q A R G D V A G G L A M D I D N C S V M A V D C E D R R Y C F Q I T S F D G K
K S S I L Q A E S K K D H E E W I C T I N N I S K Q I Y L S E N P E E T A A R V N Q S A L E A V T P S P S F Q Q R H E S L R P A A G Q S R P
P T A R T S S S G S L G S E S T N L A A L S L D S L V A P D T P I Q F D I I S P V C E D Q P G Q A K A F G Q G R R T N P F G E S G G S T K
S E T E D S I L H Q L F I V R F L G S M E V K S D D H P D V V Y E T M R Q I L A A R A I H N I F R M T E S H L L V T C D C L K L I D P Q T Q
V T R L T F P L P C V V L Y A T H Q E N K R L F G F V L R T S S G R S E S N L S S V C Y I F E S N N E G E K I C D S V L A K Q I A L H A E
L D R R A S E K Q K E I E R V K E K Q Q K E L N K Q K I E K D L E E Q S R L I A A S S R P N Q A S S E G Q F V V L S S S Q S E S D L G E
G G K K R E S E A
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012096

ORF Size: 2127 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_012096.2](#), [NP_036228.1](#)

RefSeq Size: 6061 bp

RefSeq ORF: 2130 bp

Locus ID: 26060

UniProt ID: [Q9UKG1](#)

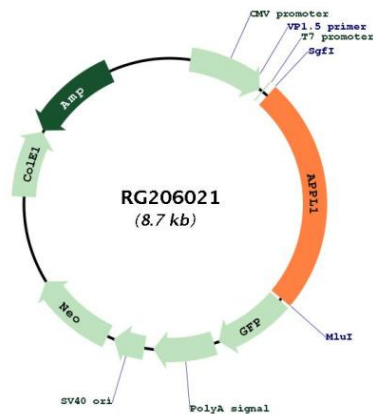
Cytogenetics: 3p14.3

Domains: PH, PID

Protein Pathways: Colorectal cancer, Pathways in cancer

Gene Summary: The protein encoded by this gene has been shown to be involved in the regulation of cell proliferation, and in the crosstalk between the adiponectin signalling and insulin signalling pathways. The encoded protein binds many other proteins, including RAB5A, DCC, AKT2, PIK3CA, adiponectin receptors, and proteins of the NuRD/MeCP1 complex. This protein is found associated with endosomal membranes, but can be released by EGF and translocated to the nucleus. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206021