

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGGATCGACAAGCTGCCATCGAGGAGACGCTGGAGGACAGCCCGACACAAGGCTTTACTGG
 GTGATTTGAAGAAGATGCCACAGCTATTTCCAACATATGAACCAAGTTGTATCAAGCTATGCATCGGAT
 TTATGATGCACAGAATGAATTAAGTGCAGCAACACACCTGACCTCAAACTTTTAAAAAGAAATATGAAAA
 CAGCGTTTTCCATTGGGAGGTGATGATGAAGTTATGAGCTCTACATTGCAACAGTTTTCAAAAGTTATAG
 ATGAGCTTAGCTTTGTCATGCAGTGCTTTCAACTCAACTTGCTGATGCCATGATGTTCCCATTACCCA
 GTTTAAAGAAAGAGATCTGAAAGAAATACTAACATTAAGGAAGTATTTAGATTGCAAGTAATGATCAT
 GATGCTGCGATTAATAGATATAGCCGTTTATCAAAAAAAGAGAAAATGACAAGGTGAAGTATGAAGTAA
 CAGAAGATGTGTACACATCCAGAAAGAAAACAACCCAGACCATGATGCATTATTTTTGTGCATTAATAC
 TCTTCAGTACAAGAAGAAAATAGCATTGTTAGAACCTCTACTTGGGTACATGCAAGCTCAGATAAGTTTC
 TTTAAGATGGGTTCTGAAAATCTTAATGAACAACCTGGAAGAATTTTTAGCTAATATTGGAACAAGCGTTC
 AGAATGTTTCGCAGGAAATGGACAGTGATATAGAGACCATGCAACAGACAATAGAGGATTTGGAAGTAGC
 CAGTGATCCCTTATATGTGCCTGACCCAGACCCCAAAATTTCTGTTAATCGAAATTTAACCCGAAAG
 GCTGGATACCTTAATGCTAGGAATAAAACAGGCTTGGTGTCTACCTGGGACAGACAGTTTTACTTCA
 CGCAGGGTGAAATTTAATGAGTCAGGCCCGTGGGGATGTAGCAGGAGGCTGGCCATGGACATAGACAA
 CTGTTCAAGTATGGCTGTGGACTGTGAAGACAGACGATATTGTTTTAGATCACCTCTTCGATGGAAAA
 AAATCTCAATTTTGAAGCAGAGAGTAAAAAGATCATGAAGAGTGGATCTGTACAATAAACAACATAT
 CTAACAATATACTTAAGTGAATAAATCCAGAGGAACTGCTGCAGGAGTAAATCAATCAGCTCTGGAAGC
 TGTCACTCCTTCCCATCTTTCCAGCAGAGGCACGAGAGCCTGCGGCCAGCAGCAGGACAATCTCGGCCA
 CCGACAGCTCGAACAGCAGTTCAGGATCCTTAGGATCTGAGTCTACAAATTTGGCTGCCCTCTCTCTAG
 ATTCTCTGTGGCCAGACACCCCAATACAGTTTGACATAATTTCTCTGTGTGTAAGATCAGCCTGG
 CCAGGCAAAAGCCTTTGGCCAGGGAGGCAGGCGTACAAATCCATTTGGAGAATCTGGAGGAAGTACAAAA
 TCTGAACTGAAGATTCTATTCTTCATCAGTTATTTATTGTCCGATTCCTGGTTCAATGGAGGTGAAAT
 CAGATGACCATCCAGATGTTGTTTATGAACTATGCGCCAAATCTTAGCTGCCCGGCCATCCATAACAT
 CTTTCGTATGACAGAATCGATTTATTAGTCACTTGTGACTGTTTAAAGTTAATTGATCCACAGACACAA
 GTTACAAGGCTCACGTTTCCATTACCTTGTGTAGTTTTGTATGCTACACACCAGGAAAATAAGCGCCTTT
 TTGGATTTGTTCTTCGGACATCAAGCGGAGAAGTAAAAGTAATCTGTCATCAGTCTGCTATATATTTGA
 GTCAAAACATGAGGGGAAAAGATATGTGATTCTGTTGGACTGGCAAAACAGATAGCTTTGCATGCTGAA
 CTGGATCGTAGGGCATCAGAAAAACAAAAGAAAATAGAGAGAGTAAAAGAGAAGCAACAGAAAGAACTCA
 AATAACAAAAACAGATTGAAAAGGACTTGGAGAACAAGTCGGTTGATAGCTGCTTCCAGTAGACCAAA
 CCAAGCCAGTAGTGAGGGCAGTTTGTGTCCTTAGCAGTAGCCAGTCAGAAGAGAGTGATTTGGGAGAA
 GGAGGAAAGAAGAGAGAATCAGAAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

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

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

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_012096.2](#), [NP_036228.1](#)

RefSeq Size: 6061 bp

RefSeq ORF: 2130 bp

Locus ID: 26060

UniProt ID: [Q9UKG1](#)

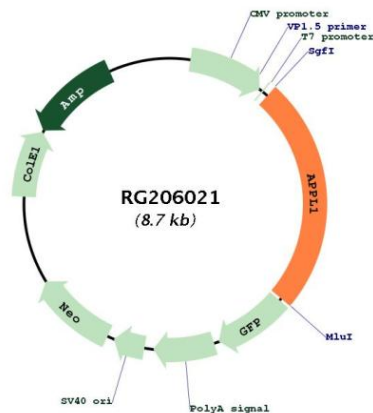
Cytogenetics: 3p14.3

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