

Product datasheet for **SC115543**

APPL (APPL1) (NM_012096) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APPL (APPL1) (NM_012096) Human Untagged Clone
Tag:	Tag Free
Symbol:	APPL
Synonyms:	APPL; DIP13alpha; MODY14
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115543 sequence for NM_012096 edited (data generated by NextGen Sequencing)

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ATGCCGGGGATCGACAAGCTGCCCATCGAGGAGACGCTGGAGGACAGCCCGCAGACAAGG
TCTTTACTAGGTGATTTGAAGAAGATGCCACAGCTATTTCCAATATATGAACCAAGTTG
TATCAAGCTATGCATCGGATTTATGATGCACAGAATGAATTAAGTGCAGCAACACACCTG
ACCTCAAACTTTTAAAAGAATATGAAAAACAGCGTTTTCCATTGGGAGGTGATGATGAA
GTTATGAGCTCTACATTGCAACAGTTTTTCAAAGTTATAGATGAGCTTAGCTCTTGTGCAT
GCAGTGTCTTCAACTCAACTTGCTGATGCCATGATGTTCCCCATTACCCAGTTTAAAGAA
AGAGATCTGAAAGAAATACTAACATTAAGGAAGTATTTTCAAGATTGCAAGTAATGATCAT
GATGCTGCGATTAATAGATATAGCCGTTTATCAAAAAAGAGAAAAATGACAAGGTGAAG
TATGAAGTAACAGAAGATGTGTACACATCCAGAAAAGAAACAACACCAGACCATGATGCAT
TATTTTTGTGCATTAATACTCTTCAGTACAAGAAGAAAAATAGCATTGTTAGAACCTCTA
CTTGGGTACATGCAAGCTCAGATAAGTTTTCTTAAAGATGGGTTCTGAAAACTTAATGAA
CAACTGGAAGAATTTTTAGCTAATATTGGAACAAGCGTTCAGAATGTTCCGAGGAAATG
GACAGTGATATAGAGACCATGCAACAGACAATAGAGGATTTGGAAGTAGCCAGTGATCCC
TTATATGTGCCTGACCCAGACCCACCAAAATTTCTGTTAATCGAAATTTAACCCGAAAG
GCTGGATACCTTAATGCTAGGAATAAAACAGGCTTGGTGTGCATCTACCTGGGACAGACAG
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AAAGATCATGAAGAGTGGATCTGTACAATAAACACATATCTAAACAAATATACTTAAGT
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TCCCATCTTTCCAGCAGAGGCACGAGAGCCTGCGGCCAGCAGCAGGACAATCTCGGCCA
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GTTACAAGGCTCACGTTTCCATTACCTTGTGTAGTTTTGTATGCTACACACCAGGAAAT
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CTGGCAAAACAGATAGCTTTGCATGCTGAACTGGATCGTAGGGCATCAGAAAAACAAAA
GAAATAGAGAGAGTAAAAGAGAAGCAACAGAAAGAACTCAATAAACAAAAACAGATTGAA
AAGGACTTGGAAGAACAAAGTCGGTTGATAGCTGCTTCCAGTAGACCAAACCAAGCCAGT
AGTGAGGGGCAGTTTGTGTCTTAGCAGTAGCCAGTCAGAAGAGAGTGATTTGGGAGAA
GGAGGAAAAGAAGAGAGAATCAGAAGCATAA
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Clone variation with respect to NM_012096.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012096 unedited
 TCGGAATTTGTATACGACTACTATAGGGCGGCCGCAATTCGCACGAGGCGCCTGGNAGA
 AGCTGTGCGGGCGGGGACGGCTGCAGCCCTTGCCGGAGAGGGCGGGCGGGGTCAGCTGC
 GGCGGGCGGGCCGGCGGGGAGCTGTGGGCGGCAGCTGCGTCTCCTGCCACCGCCCTCC
 CTCCGCCACGATGCCGGGATCGACAAGCTGCCATCGAGGAGACGCTGGAGGACAGCCC
 GCAGACAAGGTCTTTACTAGGTGATTTTGAAGAAGATGCCACAGCTATTTCCAATATAT
 GAACCACTGTGATCAAGCTATGCATCGGATTTATGATGCACAGAATGAATTAAGTGCAGC
 AACACACCTGACCTCAAACTTTTAAAAGAATATGAAAAACAGCGTTTTCCATTGGGAGG
 TGATGATGAAGTTATGAGCTCTACATTGCAACAGTTTTCAAAAGTTATAGATGAGCTTAG
 CTCTTGTCATGCAGTGCTTTCAACTCAACTTGCTGATGCCATGATGTTCCCATACCCA
 GTTTAAAGAAAGAGATCTGAAAGAAATACTAACATTAAGGAAGTATTTAGATTGCAAG
 TAATGATCATGATGCTGCGATTAATAGATATAGCCGTTTATCAAAAAAGAGAAAATGA
 CAAGGGTGAAGTATGAAGTAACAGAAAGATGTGTACACATCCAGAAAGAAACAACACCAG
 ACCATGATGCATTATTTTGTGCATTANATACTCTTCAGTACAAGAAGANATAGCATTG
 TTAGAACCTCTACTTNGTACATGNCAGCTCAGATAAGTTTCTTAAGAATGGGGTTCTGA
 AAATCTTAAATGACACTGGNAGAATTTTTAGCTAATATGGAACAGCGTTCAAATGGTCGC
 AGGAATGGACAGTGANTAGAGACATGCACAGACATAAGTTTTTGGAGTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012096 unedited
 GCTATGGACCGGGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCATTTTATT
 CAGGGGCAGGTTTTACAACATACTAGCTCTTAGGATCTCTCAGCATTAAATAGGATTCAA
 ATTTTAAATAATATGGTTCCTAGATATAATGCAAAATTAAGTCAATGCCTTTACCATAT
 ACGATTTTATCTCCCTAGGATGCACATCTACTGACTTTTTCCAAGTATAGTGAAAC
 ACATTTACCACCCTAGATTGTAGAGCCTGAGGATTTCTTTGAAATTAACAATAATCAT
 TGCAGATGTGGCAAAACTAGACTAGCTTTAGGGACTCTGTTCAAGATAATAGCTTTAGT
 CCCTGGTTGGCAAGTTCTCAAAATTTTTAAAGGTAGAAGGAATAACTGGTTTCTATCTA
 CTGACTTCATTGCCATAGTTACAACATACTGTTCAAATAGGTAACAGAAATGCATTGTAG
 AAGTAGGCAGGCTTAATATCTTTCTTTTTAAAAAGGAGTTTTGTTGATTCTAACACCA
 TTAAGTGAAGTCTGAATGTGAGAAAAGATATCCAAAATCGAATCCAGTTACCTCAA
 GCATCTCAGAAGTGAAGGGATTTCAAAGGAGGTAACAATCAGCTTTACCACTAGGCAG
 AAACCCATGGGCAGCCTTTTAAATAACNAAAAGAGCTTATTAACAGATACTTAAATCT
 CTGCGAGTAATGGAATAGTTCATATAGTTCAACAGTAATGGAACAAAAGCTGATCATCTA
 ANATTGNTAAACCACTCATAACTTCTATTTAGCATTGNAATGCACTTCGATCTGACCTA
 TGGAGATGAGGGTTTATTTATGTAGAAATNCTGTGAACATGACTTAAACGAACTACAGGT
 CTGTCAGCATCCCTAGTCTGCCAGNGCCTAACTTANCTACCTTGACCCAGGTGCTGATA
 AGGN

Restriction Sites:

NotI-NotI

ACCN:

NM_012096

Insert Size:

5270 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_012096.1](#), [NP_036228.1](#)

RefSeq Size: 5970 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]