

Product datasheet for **RC226123**

APBA2 (NM_001130414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APBA2 (NM_001130414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APBA2
Synonyms:	D15S1518E; HsT16821; LIN-10; MGC:14091; MINT2; X11-BETA; X11L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC226123 representing NM_001130414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCACCGGAAGCTTGAGAGCGTGGGAGCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTCC
 CTCACAGCCAGGAGCCGAGAGCGAGGACATGGAGCTGCCCTTGAGGGCTATGTGCCCGAGGGCCTGGA
 GCTGGCTGCCCTGCGGCCAGAGAGCCCCGCGCCAGAGGAACAGGAGTGCCACAACCACAGCCCCGATGGG
 GACTCCAGCTCTGACTACGTGAACAACCTCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAGGAGG
 AGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACCTAGAGGGCATGGACTGCAA
 CGGGGAGGAGTACCTGGCCACAGTGCACACCCTGTGGACACTGATGAGTGCCAGGAGGCGGTGGAGGAG
 TGGACGGACTCGGCGGGCCGACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACCCAGACGGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
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Protein Sequence: >RC226123 representing NM_001130414
 Red=Cloning site Green=Tags(s)

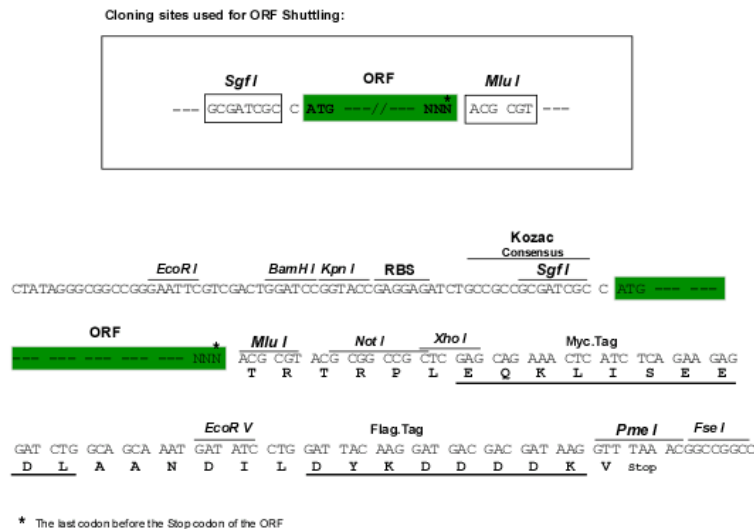
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 FPSFVAVPGPCEPEDLIDGIIFAANYLGSTQLLSERNPSKNIRMMQAQEA VSRVKNSEGDAQTLTEVDLF
 ISTQRIKVLNADTQETMMDHALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPGAQEGKKQYKMIC
 VFESEDAQLIAQSIGQAFSVAYQEFRLANGINPEDLSQKEYSDIINTQEMYNDL IHFSNSENCKELQLE
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 NQTQVKLNIVSCPPVTTVLIKRDLKYQLGFSVQNGIICSLMRGGIAERGGVRVGHRIIEINGQSVVATA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130414

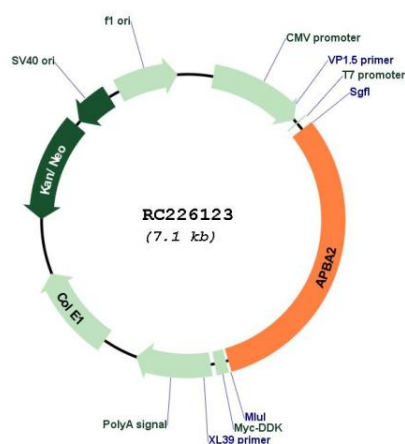
ORF Size: 2211 bp

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](#)

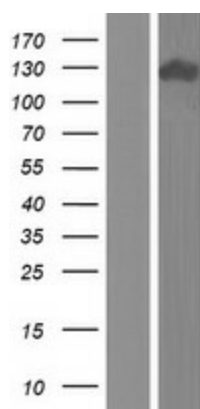
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_001130414.1, NP_001123886.1</u>
RefSeq Size:	3617 bp
RefSeq ORF:	2214 bp
Locus ID:	321
UniProt ID:	<u>Q99767</u>
Cytogenetics:	15q13.1
MW:	81.1 kDa
Gene Summary:	The protein encoded by this gene is a member of the X11 protein family. It is a neuronal adapter protein that interacts with the Alzheimer's disease amyloid precursor protein (APP). It stabilizes APP and inhibits production of proteolytic APP fragments including the A beta peptide that is deposited in the brains of Alzheimer's disease patients. This gene product is believed to be involved in signal transduction processes. It is also regarded as a putative vesicular trafficking protein in the brain that can form a complex with the potential to couple synaptic vesicle exocytosis to neuronal cell adhesion. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RC226123



Western blot validation of overexpression lysate (Cat# [LY427204]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).