

Product datasheet for **RG226123**

APBA2 (NM_001130414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APBA2 (NM_001130414) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APBA2
Synonyms:	D15S1518E; HsT16821; LIN-10; MGC:14091; MINT2; X11-BETA; X11L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG226123 representing NM_001130414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCACCGGAAGCTTGAGAGCGTGGGAGCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTCC
 CTCACAGCCAGGAGCCCGAGAGCGAGGACATGGAGCTGCCCTTGAGGGCTATGTGCCCGAGGGCCTGGA
 GCTGGCTGCCCTGCGGCCAGAGAGCCCCGCGCCAGAGGAACAGGAGTGCCACAACCACAGCCCCGATGGG
 GACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAGGAGG
 AGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACCTAGAGGGCATGGACTGCAA
 CGGGGAGGAGTACCTGGCCACAGTGCACACCCTGTGGACACTGATGAGTGCCAGGAGGCGGTGGAGGAG
 TGGACGGACTCGGCGGGCCGACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACCCAGACGGCC
 AACTGCCATTCCGAGGATGAGCCCTCCGTCTTGAGGCCCATGACCAGGAAGAAGATGGTCACTACTG
 TGCCAGCAAAGAGGGCTACCAGGACTACTACCCGAGGAGGCCAACGGGAACACCGGCGCCTCCCCCTAC
 CGCTGAGGCGTGGGGATGGGGACCTGGAGGACCAGGAGGAGACATTGACCAGATCGTGGCAGAGATCA
 AGATGAGTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCTGAGCCAGG
 GCCTGAGGACTCTGTAGAGGCCTGCCACCCATCAAGGCCAGCTGCAGCCCCAGCAGGCACGAGGCGAGG
 CCCAAGTCGCTGAACCTCCTTCCCGAGGCCAAGCACCCCGGAGACCCCGAGAGGCTTCAAGCCCAAGA
 CCAGGACCCCAAGAGAGGGCTGAAGTGCCCCACGAGCAGGTTTGCAATGGTCTGGAGCAGCCAAGGAA
 GCAGCAGCGCTCTGATCTCAATGGACCTGTTGACAATAACAACATTCCAGAGACAAGAAGTGGCATCA
 TTTCCAAGTTTGTGGCTGTTCCAGGGCCCTGCGAACCAAGACCTCATCGACGGGATCATCTTTGCTG
 CCAATTACCTGGGTCCACCCAGCTGCTATCAGAACGGAACCTTCCAAAAACATCAGAATGATGCAAGC
 GCAGGAGGCCGTCAGCCGGGTCAAGAATTCTGAGGGGGATGCCAGACGCTGACGGAAGTGACCTCTTC
 ATTTCCACCCAGAGGATCAAGGTTTTAAATGCAGACACGAGGAACCATGATGGACCACGCTTGCCTA
 CCATCTCTACATCGCCGACATTGGGAACATTGTAGTGCTGATGGCCAGACGCCGATGCCCGGTGAGC
 CTCTCAGGACTGCATCGAGACCACGCCGGGGCCAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCAT
 GTGTTGAGTGGAGGATGCCAGCTCATCGCCAGTCTATCGGCCAGGCCTTCAGCGTGGCCTACCAGG
 AGTTCCTGCGAGCAATGGCATCAACCCGAAGACTTGAGCCAGAAGGAATACAGCGACATCATCAACAC
 CCAGGAGATGTACAACGACGACCTCATCACTTCTCAAACCTCGGAGAACTGCAAGGAGCTGCAGCTGGAG
 AAGCACAAGGGCGAGATCCTGGCGTGGTGGTGGTGGAGTCGGGCTGGGGCTCCATCCTGCCACGGTGA
 TCCTGGCCAACATGATGAATGGCGGCCCGCTGCCCGCTCGGGGAAGCTGAGCATCGGGGACCAGATCAT
 GTCCATCAATGGCACCAGCCTGGTGGGGCTGCCCTCGCCACCTGCCAAGGCATCATCAAGGGCCTGAAG
 AACCAGACACAGGTGAAGCTCAACATTGTGAGCTGTCCCCGGTCACCACGGTCCTTATCAAGCGGCCAG
 ACCTCAAGTACCAGCTGGGCTTCAGCGTGCAGAAATGGAATTATCTGCAGCCTCATGAGAGGGGGCATTGC
 TGAGCGAGGGGGCGTCCGTGTGGCCACCGCATCATCGAGATCAACGGGCAGAGCGTGGTGGCCACAGCC
 CACGAGAAGATAGTCCAAGCTCTGTCCAACCTCGGTCGGAGAGATCCACATGAAGACCATGCCCGCCGCA
 TGTTCAAGGCTCTCACGGTCAGGAGACCCCGTGTACATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG226123 representing NM_001130414
 Red=Cloning site Green=Tags(s)

MAHRKLESVSGSMLDHRVRPGVPVPHSQPESEDMELPLEGYVPEGLELAALRPESPAPEEQECHNHSPDG
 DSSSDYVNNTSEEDYDEGLPEEEGITYYIRYCPEDDSYLEGMDCNGEYLAHSAHPVDTDECQEAVEE
 WTD SAGPHPHGHEAGSQDYDPGQLPIPEDEPSVLEAHDQEEDGHYCASKEGYQDYYP EANGNTGASPY
 RLRRGDGDL EDQEEDIDQIVAEIKMSLSMTSITSASEASPEHGPEPGPEDSVEACPPIKASCSPSRHEAR
 PKSLNLLPEAKHPGDPQRGFKPKTRTPEERLKWPHQVCNGLEQPRKQQRSDLN GPVDNNIPETKKVAS
 FPSFVAVPGPCPEDLIDGIIFAANYLGSTQLLSERNPSKNIRMQAQEA VSRVKNSEGDAQTLTEVDLF
 ISTQRIKVLNADTQETMDHALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPGAQEGKKQYKMICH
 VFESEDAQLIAQSIGQAFSVAYQEF LRANGINPEDLSQKEYSDIINTQEMYNDL IHFSNSENKELQLE
 KHKGEILGVVVESGWSILPTVILANMMNGGPAARSGKLSIGDQIMSINGTSLVGLPLATCQGIKGLK
 NQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQNGIICSLMRGGIAERGGVRVGHRIIEINGQSVVATA
 HEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_001130414.1](#), [NP_001123886.1](#)

RefSeq Size: 3617 bp

RefSeq ORF: 2214 bp

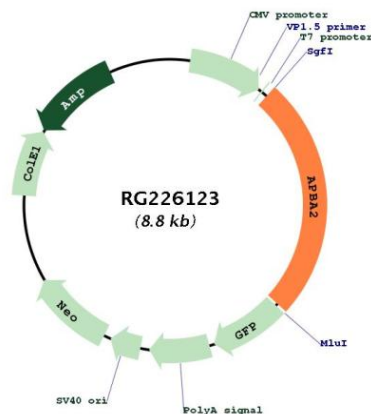
Locus ID: 321

UniProt ID: [Q99767](#)

Cytogenetics: 15q13.1

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 RG226123