

Product datasheet for **SC325310**

APBA2 (NM_001130414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APBA2 (NM_001130414) Human Untagged Clone
Tag:	Tag Free
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)



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Fully Sequenced ORF: >SC325310 representing NM_001130414.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCACCGGAAGCTTGAGAGCGTGGGAGCGGCATGTTGGACCATAGGGTGAGACCAGGTCCTGTG
CCTCACAGCCAGGAGCCGAGAGCGAGGACATGGAGCTGCCCTTGAGGGCTATGTGCCGAGGGCCTG
GAGCTGGCTGCCCTGCCGCCAGAGAGCCCGCGCCAGAGGAACAGGAGTGCCACAACCACAGCCCCGAT
GGGGAATCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAG
GAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACCTAGAGGGCATGGAC
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CGCCGATGCCCGGTGACGCTCTCAGGACTGCATCGAGACCACGCCGGGGCCAGGAAGGCAAGAAG
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GCCTTCAGCGTGGCCTACCAGGAGTTCCTGCGAGCCAATGGCATCAACCCGAAGACTTGAGCCAGAAG
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AACTGCAAGGAGCTGCAGCTGGAGAAGCACAAGGGCGAGATCCTGGCGTGGTGGTGGTGGAGTCGGGC
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AAGCTGAGCATCGGGGACCAGATCATGTCCATCAATGGCACCAGCCTGGTGGGGCTGCCCTCGCCACC
TGCCAAGGCATCATCAAGGGCCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTGAGCTGTCCCCG
GTCACCACGGTCTTATCAAGCGGCCAGACCTCAAGTACCAGTGGGCTTCAGCGTGCAGAAATGGAATT
ATCTGCAGCTCATGAGAGGGGGCATTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATCATCGAG
ATCAACGGGCAGAGCGTGGTGGCCACAGCCACGAGAAGATAGTCCAAGCTCTGTCCAACCTCGGTCGGA
GAGATCCACATGAAGACCATGCCCGCGCCATGTTGAGGCTCCTACGGGTCAGGAGACCCCGCTGTAC
ATCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

ACCN: NM_001130414

Insert Size: 2214 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001130414.1</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] Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.