

Product datasheet for **SC116690**

APBA2 (NM_005503) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	APBA2
Synonyms:	DI5S1518E; HsT16821; LIN-10; MGC:14091; MINT2; X11-BETA; X11L
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF: >NCBI ORF sequence for NM_005503, the custom clone sequence may differ by one or more nucleotides

ATGGCCACCGGAAGCTTGAGAGCGTGGGAGCGGCATGTTGGACCATAGGGTGAGACCAGGTCTGTCC
CTCACAGCCAGGAGCCGAGAGCGAGGACATGGAGCTGCCCTTGGAGGGCTATGTGCCGAGGGCCTGGA
GCTGGCTGCCCTGCGGCCAGAGAGCCCCGCCAGAGGAACAGGAGTGCCACAACCACAGCCCCGATGGG
GACTCCAGCTCTGACTACGTGAACAACACCTCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAGGAGG
AGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACCTAGAGGGCATGGAGTGAA
CGGGGAGGAGTACCTGGCCACAGTGACACCCCTGTGGACACTGATGAGTGCCAGGAGGCGGTGGAGGAG
TGGACGGACTCGGCGGGCCCGACCCCCACGGCCACGAGGCTGAAGGCAGCCAGGACTACCCAGACGGCC
AACTGCCCATTTCCGAGGATGAGCCCTCCGTCTTGGAGGCCATGACCAGGAAGAAGATGGTCACTACTG
TGCCAGCAAAGAGGGCTACCAGGACTACTACCCGAGGAGGCCAACGGGAACACCGCGCCTCCCCCTAC
CGCCTGAGGCGTGGGGATGGGACCTGGAGGACCAGGAGGAGGACATTGACCAGATCGTGGCAGAGATCA
AGATGAGTCTGAGCATGACCAGCATCACCAGCGCCAGTGAGGCCAGCCCCGAGCATGGGCTGAGCCAGG
GCCTGAGGACTCTGTAGAGGCTGCCACCCATCAAGGCCAGCTGCAGCCCAGCAGGCACAGGCGGAGG
CCCAAGTCGCTGAACCTCCTTCCCGAGGCCAAGCACCCCGAGACCCCCAGAGAGGCTTCAAGCCCAAGA
CCAGGACCCAGAGAGAGGGCTGAAGTGGCCCCACGACGAGTTTGCAATGGTCTGGAGCAGCCAAGGAA
GCAGCAGCGCTCTGATCTCAATGGACCTGTTGACAATAACAACATTCCAGAGACAAAGAAGTGGCATCA
TTTCCAAGTTTGTGGCTGTTCCAGGGCCCTGCCAACCAGAAGACCTCATCGACGGGATCATCTTTGCTG
CCAATTACCTGGGGTCCACCCAGCTGCTATCAGAACGGAACCTTCCAAAAACATCAGAATGATGAAGC
GCAGGAGGCGCTCAGCCGGTCAAGAGGATGCAAAAGGCTGCTAAGATCAAGAAAAAGCGAATTCTGAG
GGGGATGCCCAGACGCTGACGGAAGTGACCTTTCATTTCCACCCAGAGGATCAAGGTTTTAAATGCAG
ACACGAGGAAACCATGATGAGACCGCCTTGCCTACCATCTCCTACATCGCCGACATTGGGAACATTGT
AGTGCTGATGGCCAGACGCGCATGCCCGGTGAGCCTCTCAGGACTGCATCGAGACCACGCCCCGGGCC
CAGGAAGGCAAGAAGCAGTATAAGATGATCTGCCATGTGTTGAGTCCGAGGATGCCAGCTCATCGCCC
AGTCTATCGCCAGGCCTTACGCTGGCTACCAAGGAGTTCCTGCGAGCCAATGGCATCAACCCGAAGA
CTTGAGCCAGAAGGAATACAGCGACATCATCAACACCCAGGAGATGTACAACGACGACCTCATCCACTTC
TCAAACCTCGGAGAACTGCAAGGAGCTGCAGCTGGAGAAGCACAAGGGCGAGATCCTGGGCGTGGTGGG
TGGAGTCCGGCTGGGGTCCATCTGCCACGGTATCCTGGCCAACATGATGAATGGCGGCCCGGCTGC
CCGCTCGGGAAGCTGAGCATCGGGACCATGATGTCATCAATGGCACCAGCCTGGTGGGGTGGCC
CTCGCCACCTGCCAAGGCATCATCAAGGGCTGAAGAACCAGACACAGGTGAAGCTCAACATTGTGAGCT
GTCCCCCGGTACCCACGGTCTTATCAAGCGGCCAGACCTCAAGTACCAGCTGGGCTTACGCGTGCAGAA
TGGAATTATCTGCAGCCTCATGAGAGGGGGCATTTGCTGAGCGAGGGGGCGTCCGTGTGGGCCACCGCATC
ATCGAGATCAACGGGCAGAGCGTGGTGGCCACAGCCACGAGAAGATAGTCCAAGCTCTGTCCAACCTCGG
TCGGAGAGATCCACATGAAGACCATGCCCGCCCATGTTCAAGGCTCCTACGGGTACAGGAGACCCCGCT
GTACATCTAG

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_005503 unedited
GAATTTGTAATACGACTCACTATAGGGCGGCNCGCAATTCGCACGAGGGCGGCTCGGCG
CGGGCTCACAAANAGCTCGGCCTCGCGGACTGAGCCGCGGCAGCGGGCGGGGACGGCG
GCGTACCCGGGCAGCCAGCGCCCTGGCCAGTCTCCTGAATATTTACGCGTTGCTGAATC
TCCTGTGGACAAACCAATAGGCCAGGACTGTCCTGTGGACAGACGGGAAAGATTTGA
TCACCAGGAGATTTTCGGGACATTACCAACCACTCATTTTGTGGCTGCCTCCGGGTG
ATGATGGCTGTGTGAACGACTGCCATGGCCACCGGAAGCTTGAGAGCGTGGGAGCGGC
ATGTTGGACCATAGGGTGAGACCAGGTCTGTCCCTCACAGNCAGAAGCCCGAGAGCGAG
GACATGGAGCTGCCCTTGGAGGGCTATGTGCCCGAGGGCCTGGAGCTGGCTGCCCTGCGG
NCANAGAGCCCCGCGCCAGAGGAACAGGAGTGCCACAACCACAGCCCCGATGGGGAATCC
AGCTCTGACTACGTGAACAACCTCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAG
GAGGAGGAGGGCATCACCTACTACATCCGCTACTGCCCTGAGGACGACAGCTACCTAGAG
GGCATGGACTGCAACGGGAGGAGTACCTGGCCACAGTGACACCCCTGTGGACCTGATG
ANTGCCANGAGGCGGTGGAAGAGTGACGAGTTCGNGGGCCCGCACCCCGAGGGCCACG
AGGCTGAAAGCAGCCAGGACTACCCAGACGGGCAACTGCCCATTTCCGGAGGATGAGCCC
TNCGTCTTGGGCCATGACCGGAAAAAGATGTCCCTACTGTGCCAGCAAAAGGCTACCA
GACTACACA

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005503 unedited <pre> CGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTCATCAGACTTCAGGTTTAT TAGTGATATGCGCGAAGTCTTCCTACGGGTAGCTGCATGCAACACACGGCACTCCTCGAA TACAGTCATCCTAAAGCTTTAGTTACTGCGTGGTAAGGCTTCTTAAGTCACAGTGATTTC TTCAAGGCCTGGGCCAAAAAAGACTTCGAGACAAGATGACGTGAGATTACATGGATC GCTAATGAACCGAGCTGGACTAGATCCGACTTGATCTACACACATGCCACTACTGCTCAG GGCCACTGCGCCACGCTGGCCAAGGGGTCTGCACTCACGGCTGGCTGCTTTAGGTGCGGC CAAGGTCGCGTTTTCTAGAGTGGGTTTCGTTTCCTCGGGTGCATGTGCGTGGATGTGT GTAAATCGATTTTAAAGAGGGGGCAGACACCTGTGCCCTCCTTGCTCTGTGGAGCCCT GGCCGGGTATGCAGCCGGGTGGGAGGTGCCANAAGAGACGACGGGAGAGGCAGGTGTG GTCATTANTCACATTGAAAAACCTAGAGTCTGGAAAAAGCCTGCCAAAATAAAAGTCC AAACAGTAATAATAGCATCTAAATAAATATGGAGTTTTTCATGGTGTGGCATCATCCTTT ATTTACAATCAATCAATCAATCAATCACATGTCCCAAACCTTTCATTACAAGTCGTGTCC TGGGAAGCCAGCTGCCCGTGTCCCTGCAGTCAGTGGCAGAGGCAGCTGTTGGGACCATT GTGGGGGGCCACAGGACCCAGACGTCCATCCAAGGGGGCGGAGGCAGGGGTACGGCT GCCCTGCCCGGNAGCGCGTCCCTCGAAGGCGCCAGTTCGCTCCGCCAGCTCCAGGGGAG AAAGACCACACTCCACACACGCCAGTACCAGACACACCTGGCTTGGCAAGGAAAAAC GTCN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005503
Insert Size:	3570 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005503.2 , NP_005494.2
RefSeq Size:	3653 bp
RefSeq ORF:	2250 bp
Locus ID:	321

UniProt ID: [Q99767](#)

Cytogenetics: 15q13.1

Domains: PDZ, PID

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 (1) represents the longest transcript and encodes the longest isoform (α).