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Product datasheet for MR210457

Apba2 (NM_007461) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apba2 (NM_007461) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apba2
Synonyms:	mXllL; X11-like; X11L; XllL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210457 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCACCGCAAGCGTCAGAGCACTGCAAGCAGCATGCTGGACCACAGGGCCAGGCCAGGTCCTATCC
CCCATGACCAGGAGCCTGAGAGTGAGGACACAGAACTGCCTCTGGAGAGCTATGTACCCACAGGCCTGGA
GCTGGGCACTCTGAGGCCAGAGAGCCCCACGCCCGAGGAACAGGAGTGCCACAACCATAGTCCTGATGGG
GACTCCAGCTCTGACTATGTGAACAACACATCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAGGAGG
AGGAGGGTGTCACCTACTACATCCGCTACTGTCCTGAGGATGACAGCTACCTGGAGGGCATGGACTGTAA
TGGGGAGGAATACATAGCACACGGTGCACATCCCGTGGACACCGATGAGTGTCAGGAGGCGGTGGAGGAC
TGGACGGACTCAGTGGGCCCTCATACTCATAGCCACGGGGCTGAAAACAGCCAGGAGTACCCAGATGGCC
ACCTGCCTATCCCAGAGGATGACCCTACTGTCCTGGAGGTCCATGACCAGGAAGAAGATGGCCACTACTG
TTCCAGCAAGGAGAGCTACCAGGACTATTACCCCCCAGAGACCAATGGGAACACAGGTGGCGCCTCCCCC
TATCGCATGAGGCGTGGGGATGGGGACCTAGAGGAGCAGGAGGAAGACATCGACCAGATAGTGGCTGAGA
TCAAGATGAGCCTGAGCATGACCAGTATTACCAGTGCCAGCGAGGCCAGCCCTGAGCACATGCCGGAGCT
GGATCCCGGGGATTCCACTGAGGCCTGTCCACCCAGTGACACTGGCCATGGACCCGGTAGGCAAGAAGCA
AGGCCCAAGTCGCTGAACCTTCCCCCTGAGGTTAAGCACCCTGGAGACCTCCAGAGAGGACTCAAGACCA
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GAAGCAGCAGCGCTCTGATCTCAATGGGCCCACTGACAATAACAACATCCCAGAGACAAAGAAGGTGGCA
TCATTTCCAAGCTTTGTGGCTGTTCCAGGGCCCTGTGAGGCAGAAGACCTCATCGATGGAATCATCTTTG
CAGCCAACTACCTGGGCTCCACCCAGCTGCTCTCTGAGCGCAACCCCTCCAAAAACATCCGAATGATGCA
GGCTCAAGAAGCCGTCAGCAGGGTCAAGAGGATGCAGAAGGCTGCTAAGATCAAGAAAAAAGCGAATTCT
GAGGGTGATGCTCAGACACTGACAGAAGTAGACCTCTTCATTTCGACCCAGAGGATCAAGGTCTTAAACG
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GCCCAGGAGGGAAAGAAGCAGTACAAGATGATCTGTCACGTGTTCGAGTCAGAGGATGCCCAGCTGATCG
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AGACCTGAGCCAGAAGGAATATAGCGACATCATAAATACCCAAGAGATGTATAATGACGACCTCATCCAC
TTCTCAAACTCAGAGAACTGCAAGGAGCTGCAGCTAGAGAAGCACAAGGGTGAGATTTTGGGTGTGGTGG
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CCCCTGGCTACGTGCCAGGGCATCATCAAGGGCCTGAAGAACCAAACCCAGGTAAAGCTCAACATTGTCA
GCTGCCCCCCGGTCACCACCGTCCTCATCAAGCGTCCAGACCTCAAGTACCAGCTGGGTTTCAGCGTGCA
GAATGGAATCATCTGCAGCCTCATGAGAGGGGGTATTGCAGAGCGAGGTGGTGTCCGAGTCGGCCACCGT
ATCATCGAGATCAACGGACAGAGTGTGGTAGCCACAGCCCATGAGAAGATAGTCCAGGCTCTGTCTAACT
CGGTGGGAGAGATTCACATGAAGACCATGCCTGCAGCCATGTTTAGGCTCCTCACGGGCCAGGAGACCCC
GCTGTACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

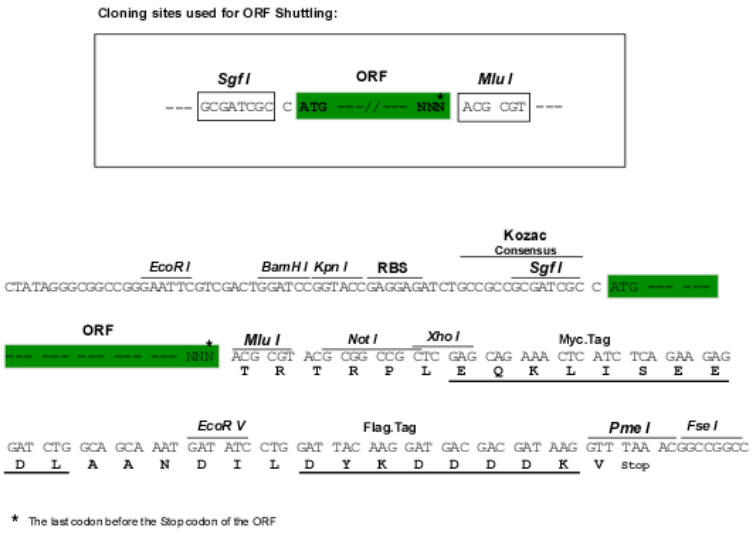
>MR210457 protein sequence
Red=Cloning site Green=Tags(s)

MAHRKRQSTASSMLDHRARPGPIPHDQEPESEDTELPLESYVPTGLELGTLRPESPTPEEQECHNHSPDG
DSSSDYVNNTSEEEDYDEGLPEEEEGVTYYIRYCPEDDSYLEGMDCNGEEYIAHGAHPVDTDECQEAVED
WTDSVGPHTHSHGAENSQEYPDGHLPIPEDDPTVLEVHDQEEDGHYCSSKESYQDYYPPETNGNTGGASP
YRMRRGDGDLEEQEEDIDQIVAEIKMSLSMTSITSASEASPEHMPELDPGDSTEACPPSDTGHGPGRQEA
RPKSLNLPPEVKHPGDLQRGLKTKTRTPEERPKWPQEQVCNGLEQPRKQQRSDLNGPTDNNNIPETKKVA
SFPSFVAVPGPCEAEDLIDGIIFAANYLGSTQLLSERNPSKNIRMMQAQEAVSRVKRMQKAAKIKKKANS
EGDAQTLTEVDLFISTQRIKVLNADTQETMMDHALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPG
AQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQEFLRANGINPEDLSQKEYSDIINTQEMYNDDLIH
FSNSENCKELQLEKHKGEILGVVVVESGWGSILPTVILANMMNGGPAARSGKLSIGDQIMSINGTSLVGL
PLATCQGIIKGLKNQTQVKLNIVSCPPVTTVLIKRPDLKYQLGFSVQNGIICSLMRGGIAERGGVRVGHR
IIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007461

ORF Size: 2250 bp

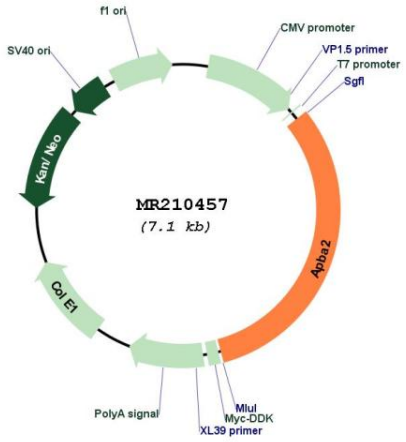
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	NM_007461.2, NP_031487.1
RefSeq Size:	3334 bp
RefSeq ORF:	2253 bp
Locus ID:	11784
UniProt ID:	P98084
Cytogenetics:	7 34.65 cM
MW:	82.8 kDa
Gene Summary:	Putative function in synaptic vesicle exocytosis by binding to STXBP1, an essential component of the synaptic vesicle exocytotic machinery. May modulate processing of the amyloid-beta precursor protein (APP) and hence formation of APP-beta.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210457