

## Product datasheet for **MR231062**

### Apba2 (NM\_001291166) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Apba2 (NM_001291166) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Apba2
Synonyms:	mXIII; X11-like; X11L; XIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR231062 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCACCGCAAGCGTCAGAGCACTGCAAGCAGCATGCTGGACCACAGGGCCAGGCCAGTCCCTATCC  
 CCCATGACCAGGAGCCTGAGAGTGAGGACACAGAAGTGCCTCTGGAGAGCTATGTACCCACAGGCCTGGA  
 GCTGGGCACTCTGAGGCCAGAGAGCCCCACGCCGAGGAACAGGAGTGCCACAACCATAGTCCTGATGGG  
 GACTCCAGCTCTGACTATGTGAACAACACATCTGAGGAGGAGGACTATGACGAGGGCCTCCCTGAGGAGG  
 AGGAGGGTGTACCTACTACATCCGCTACTGTCCTGAGGATGACAGCTACCTGGAGGGCATGGACTGTAA  
 TGGGGAGGAATACATAGCACACGGTGCACATCCCGTGGACACCGATGAGTGTGAGGAGCGGTGGAGGAC  
 TGGACGGACTCAGTGGGCCCTCATACTCATAGCCACGGGGCTGAAAACAGCCAGGAGTACCCAGATGGCC  
 ACCTGCCTATCCAGAGGATGACCCTACTGTCTGGAGGTCCATGACCAGGAAGAAGATGGCCACTACTG  
 TTCCAGCAAGGAGAGCTACCAGGACTATTACCCCCAGAGACCAATGGGAACACAGGTGGCGCCTCCCC  
 TATCGCATGAGGGCGTGGGGATGGGGACCTAGAGGAGCAGGAGGAAGACATCGACCAGATAGTGGCTGAGA  
 TCAAGATGAGCCTGAGCATGACCAGTATTACCAGTGCCAGCGAGGCCAGCCCTGAGCACATGCCGGAGCT  
 GGATCCCGGGGATTCCACTGAGGCCTGTCCACCCAGTGACACTGGCCATGGACCCGGTAGGCAAGAAGCA  
 AGGCCAAAGTCGCTGAACCTTCCCCCTGAGGTTAAGCACCTGGAGACCTCCAGAGAGGACTCAAGACCA  
 AGACCAGGACCCAGAGGAGAGGGCCAAAGTGGCCCCAAGAGCAGGTTTGAATGGCTTAGAGCAGCCAAG  
 GAAGCAGCAGCGCTCTGATCTCAATGGGCCACTGACAATAACAACATCCAGAGACAAAGAAGTGGCA  
 TCATTTCCAAGCTTTGTGGTGTTCAGGGCCCTGTGAGGCAGAAGACCTCATCGATGGAATCATCTTTG  
 CAGCCAACCTACCTGGGCTCCACCCAGTGTCTCTGAGCGCAACCCCTCCAAAAACATCCGAATGATGCA  
 GGCTCAAGAAGCCGTGAGCAGGGTCAAGAGGATGCAGAAGGCTGCTAAGATCAAGAAAAAAGCGAATTCT  
 GAGGGTGTGCTCAGACACTGACAGAAGTAGACCTCTTCAATTCGACCCAGAGGATCAAGGTCTTAAACG  
 CTGACACGCAGGAAACCATGATGGACCATGCCTTGCACCATCTCCTACATTGCAGACATTGGGAACAT  
 CGTGGTTCTGATGGCCAGGCGCCGATGCCAGGTGAGCCTCTCAGGACTGCATTGAGACCACGCCTGGG  
 GCCCAGGAGGGAAAGAAGCAGTACAAGATGATCTGTACGTGTTTCGAGTCAGAGGATGCCCAGCTGATCG  
 CCCAGTCCATTGGCAGGCCTTCAGCGTGGCTTACCAGGAGTTCCTGAGGGCCAATGGCATCAACCCCGA  
 AGACCTGAGCCAGAAGGAATATAGCGACATCATAAATACCCAAGAGATGTATAATGACGACCTCATCCAC  
 TTCTCAAACCTCAGAGAACTGCAAGGAGTGCAGCTAGAGAAGCACAAGGGTGGAGATTTTGGGTGTGGTGG  
 TCGTGGAAATCGGGCTGGGGCTCCATCCTGCCACTGTGATCCTGGCGAACATGATGAACGGCGGCCCAGC  
 GGCTCGCTCAGGGAAGCTGAGCATTGGGGACCAGATCATGTCCATCAACGGCACCAGCCTGGTGGGGCTG  
 CCCCTGGCTACGTGCCAGGGCATCATCAAGGGCCTGAAGAACCAACCCAGGTAAAGCTCAACATTGTCA  
 GCTGCCCCCGGTACCACCGTCTCATCAAGCGTCCAGACCTCAAGTACCAGCTGGGTTTCAGCGTGCA  
 GAATGGAATCATCTGCAGCCTCATGAGAGGGGGTATTGCAGAGCGAGGTGGTGTCCGAGTCGGCCACCGT  
 ATCATCGAGATCAACGGACAGAGTGTGGTAGCCACAGCCCATGAGAAGATAGTCCAGGCTCTGTCTAACT  
 CGGTGGGAGAGATTACATGAAGACCATGCCTGCAGCCATGTTTAGGCTCCTCACGGGCCAGGAGACCC  
 GCTGTACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231062 protein sequence  
 Red=Cloning site Green=Tags(s)

MAHRKRQSTASSMLDHRARPGPIPHDQPESEDELPLESYVPTGLELGLTRPESPTPEEQECHNHSPDG  
 DSSSDYVNNNTSEEDYDEGLPEEEEGVYYIRYCPEDDSYLEGMDCNQEEYIAHGHPVDTDECQEAIVED  
 WTDSVGPHTHSHGAENSQYEPDGHLP IPEDDPTVLEVHDQEEEDGHYCSSKESYQDYYPETNGNTGGASP  
 YRMRRGDGLLEEQEEDIDQIVAEIKMSLSMTSITSAEASPEHMPELD PGDSTEACPPSDTGHGPRQEA  
 RPKSLNLPPEVKHPGDLQRGLKTKTRTPPEERPKWPQEQVCNGLEQPRKQQRSDLNGPTDNNNIPETKKVA  
 SFPSFVAVPGPCEAEDLIDGIIFAANYLGSTQLLSERNPSKNIRMMQAQEA VSRVKRMQKAAKIKKKANS  
 EGDAQTLTEVDLFI STQRIKVLNADTQETMMDHALRTISYIADIGNIVVLMARRRMPRSASQDCIETTPG  
 AQEGKKQYKMICHVFESEDAQLIAQSIGQAFSVAYQEF LRANGINPEDLSQKEYSDIINTQEMYNDLIIH  
 FNSSENCKELQLEKHKGEILGVVVVSEGWGSILPTVILANMMNGGPAARSGKLSIGDQIMSINGTSLVGL  
 PLATCQGI I KGLKNQTQVKNIVSCPPVTVL IKRPDLKYQLGFSVQNGIICSLMRGGIAERGGVVRVGR  
 IIEINGQSVVATAHEKIVQALSNSVGEIHMKTMPAAMFRLLTGQETPLYI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001291166

**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\\_001291166.1](#), [NP\\_001278095.1](#)

**RefSeq Size:** 3337 bp

**RefSeq ORF:** 2253 bp

**Locus ID:** 11784

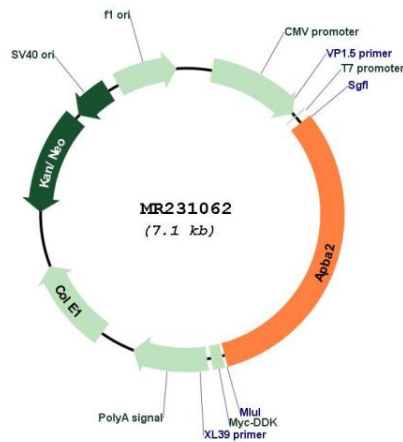
**UniProt ID:** [P98084](#)

**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 MR231062