

Product datasheet for **RG215791**

AP2B1 (NM_001282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP2B1 (NM_001282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AP2B1
Synonyms:	ADTB2; AP2-BETA; AP105B; CLAPB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG215791 representing NM_001282
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGACTCCAAGTATTTACAACCAATAAAAAAGGAGAAATATTTGAACTAAAAGCTGAACTCAACA
 ATGAAAAGAAAAGAAAAGAAAAGAGGAGGCTGTGAAGAAAAGTGATTGCTGCTATGACCGTGGGAAGGATGT
 TAGTTCTCTCTTTCCAGACGTAGTGAAGTGTATGCAGACTGACAATCTGGAATAAAGAAGCTTGTGTAT
 CTCTACTTGATGAACTACGCCAAGAGTCAGCCAGACATGGCCATCATGGCTGTAACAGCTTTGTGAAGG
 ACTGTGAAGATCCTAATCCTTTGATTGAGCCTTGGCAGTCAGAACCATGGGGTGCATCCGGGTAGACAA
 AATTACAGAATATCTCTGTGAGCCGCTCCGCAAGTGTGTAAGGATGAGGATCCCTATGTTCCGAAAAACA
 GCAGCAGTCTGCGTGGCAAACTCCATGATATCAATGCCAAATGGTGAAGATCAGGGATTTCTGGATT
 CTCTACGGGATCTCATAGCAGATTCAAATCCAATGGTGGTGGCTAATGCCGTAGCGGCATTATCTGAAAT
 CAGTGAGTCTACCCAAACAGCAACTTACTTGATCTGAACCCACAGAACATTAATAAGCTGCTGACAGCC
 CTGAATGAATGCACTGAATGGGGCCAGATTTTCATCCTGGACTGCCTGTCTAATTAACAACCTAAAGATG
 ATCGGGAGGCTCAGAGCATCTGTGAGCGGGTAACTCCCGGCTATCCCATGCCAACTCAGCAGTGGTGTCT
 TTCAGCGGTAAGTCTAATGAAGTTTCTAGAATTGTTACCTAAGGATTCTGACTACTACAATATGCTG
 CTGAAGAAGTTAGCCCTCCACTTGTCACTTTGCTGTCTGGGGAGCCAGAAGTGCAGTATGTCGCCCTGA
 GGAACATCAACTAATTTGCCAGAAAAGGCTGAAATCTGAAGCAGGAAATCAAAGTCTTCTTTGTGAA
 GTACAATGATCCCATCTATGTTAACTAGAGAAGTTGGACATCATGATTCGTTTGGCATCAAGCCAAC
 ATTGCTCAGGTTCTGGCAGAAGTAAAGAATATGCTACAGAGGTGGATGTTGACTTTGTTGAAAAGCTG
 TCCGGGCCATTGGACGGTGTCCATCAAGTGGAGCAATCTGCAGAGCGTGTGAAGCAGTCTTGTGA
 TCTAATCCAGACCAAAGTGAATTATGTGGTCCAAGAAGCAATTGTTGTCATCAGGGACATCTCCGCAAA
 TACCCCAACAAGTATGAAAGTATCATCGCCACTCTGTGTGAGAACTTAGACTCGTGGATGAGCCAGATG
 CTCGAGCAGTATGATTTGGATTGTGGGAGAATATGCTGAAAGAATTGACAATGCAGATGAGTTACTAGA
 AAGCTTCTGGAGGGTTTTACGATGAAAGCACCCAGGTGCAGCTCACTCTGCTTACTGCCATAGTGAAG
 CTGTTTCTCAAGAAACCATCAGAAACACAGGAGCTAGTCCAGCAGGTCTTGGATTGGCAACACAGGATT
 CTGATAATCCTGACCTTCGAGACCGGGCTATATTTATGGCGCCTTCTCTCAACTGACCCTGTTACAGC
 TAAAGAAGTAGTCTTGTCTGAGAAGCCACTGATCTCTGAGGAGACGGACCTTATTGAGCCAACCTGCTG
 GATGAGCTAATCTGCCACATTGGTTCTTTGGCCTCTGTGTATCATAAGCCTCCCAATGCTTTTGTGAAG
 GAAGTCATGGAATTCATCGTAAACACTTGCCAATTCATCATGGGAGCACTGATGCAGGTGACAGCCCTGT
 TGGCACTACCACTGCAACGAACCTGGAACAGCCTCAGGTTATCCCTCTCAAGGTGATCTTCTAGGGGAT
 CTTTTAAACCTTGACCTCGTCCCCAGTCAATGTGCCACAGGTGCTCCATGCAGATGGGAGCAGTGG
 ATCTCCTAGGAGGAGGACTAGATAGTCTGGTGGGACAATCCTTCATCCCATCATCGGTGCCTGCAACCTT
 TGCTCCTTACCTACACCTGCTGTGGTCAGCAGTGGACTGAATGACCTGTTTGAACCTCCACAGGGATA
 GGCATGGCACCTGGTGGATATGTGGCTCCTAAGGCTGTCTGGCTACCTGCAGTAAAGGCTAAAGGCTTGG
 AGATTTCCGGAACATTTACTCACCGCAAGGGCACATCTATATGGAATGAACTTCACCAATAAAGCTCT
 GCAGCACATGACAGATTTTGAATCCAGTTTAAACAAAAATAGCTTTGGTGTATCCCCAGCACTCCTCTG
 GCCATCCATACACCACTGATGCCAAACCAGAGCATTGATGTCTCCTGCCTCTCAATACCTTGGGCCAG
 TCATGAAGATGGAACCTCTGAATAACCTCCAGGTGGCTGTGAAAAACAATATCGATGTCTTCTACTTCAG
 CTGCCATCCCCTCAATGTGCTTTTTGTAGAAGATGGCAAAATGGAGCGCCAGGTCTTCTTGAACA
 TGGAAAGGATATCCCAATGAAAATGAACTTCAGTTTTCAGATTAAGGAATGTCATTTAAATGCTGACACTG
 TTTCCAGCAAGTTGCAAAAACAATGTTTATACTATTGCCAAGAGGAATGTGGAAGGGCAGGACATGCT
 GTACCAATCCCTGAAGCTCACTAATGGCATTGGATTTTGGCCGAACCTACGTATCCAGCCAGGAAACCCC
 AATTACACGCTGCACTGAAGTGTAGAGCTCCTGAAGTCTCTCAATACATCTATCAGGTCTACGACAGCA
 TTTTGAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215791 representing NM_001282
 Red=Cloning site Green=Tags(s)

MTDSKYFTTNKKGEIFELKAELNNEKKEKRKEAVKKVIAAMTVGKDVSSLPDVVNCMQTDNLELKKLVY
 LYLMNYAKSQPDMAIMAVNSFVKDCEDPNPLIRALAVRTMGCIRVDKITEYLCEPLRKCLKDEDPYVRKT
 AAVCVAKLHDINAQMVEDQGFLDSLRLDIADSNPMVVANAVAALSEISESHPNSSLDLNPQNINKLLTA
 LNECTEWGQIFILDCLSNYNPKDDREAQSI CERVTPRLSHANSVVL SAVKVLMKFLELLPKDSDYYNML
 LKKLAPPLVTL LSGEPEVQYVALRNINLIVQKRPEILKQEI KVFV KYNDPIYVKLEKLDIMIRLASQAN
 IAQVLAELKEYATEVDVDFVRKAVRAIGRAIKVEQSAERCVSTLLDLIQTKVNYVYVQEAIVVIRDIRK
 YPNKYESIATLCENLDSLDEPDARAAMIWIVGEYAERIDNADELLESFLEGFHDESTQVQLTLLTAIVK
 LFLKKPSETQELVQVLSLATQSDNPDLRDRGYIYWRLLSTDPVTAKEVVLSEKPLISEETDLIEPTLL
 DELICHIGSLASVYHKPPNAFVEGSHGHRKHLPIHHGSTDAGDSPVGTATTNLEQPQVIPSQGDLLGD
 LLNLDLGPVNVQVSSMQMGAVDLLGGGLDSL VGQSFIPSSVPATFAPSPTPAVVSSGLNDFELSTGI
 GMAPGGYVAPKAVWLPVAKAKGLEISGTFTHRQGHYMEMNFTNKALQHMTDFAIQFNKNSFGVIPSTPL
 AIHTPLMPNQSIDVSLPLNLTLPVMKMEPLNQLQAVKNNIDVYF SCL IPLNVL FVEDGKMERQVFLAT
 WKDIPNENELQFQIKECHLNADTVSSKLNQNNVYTI AKRNV EGQDMLYQSLKLTNGIWILAE LRIQPGNP
 NYTLSLKRAPEVSQYIYQVYDSILKN

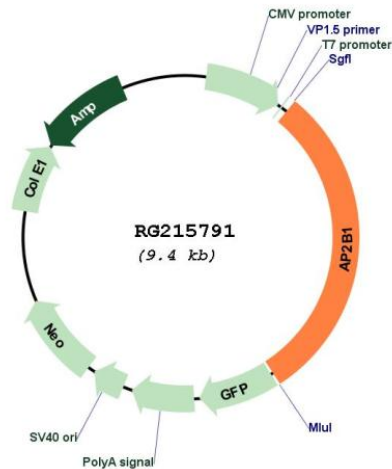
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282

ORF Size: 2811 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_001282.3](#)

RefSeq Size: 5730 bp

RefSeq ORF: 2814 bp

Locus ID: 163

UniProt ID: [P63010](#)

Cytogenetics: 17q12

Domains:	Armadillo_seg, Adaptin_N, Alpha_adaptinC2
Protein Families:	Druggable Genome
Protein Pathways:	Endocytosis, Huntington's disease
Gene Summary:	The protein encoded by this gene is one of two large chain components of the assembly protein complex 2, which serves to link clathrin to receptors in coated vesicles. The encoded protein is found on the cytoplasmic face of coated vesicles in the plasma membrane. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]