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Product datasheet for SC117246

AP3B2 (NM_004644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AP3B2 (NM_004644) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP3B2
Synonyms:	DEE48; EIEE48; NAPTB
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117246 sequence for NM_004644 edited (data generated by NextGen Sequencing)

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ATGTCGGCCGCCCCCGCCTACAGCGAAGACAAGGGCGGCTCCGCTGGCCCCGGGGAGCCC
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Clone variation with respect to NM_004644.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004644 unedited
TTTTCGGAATTTGAAACACGATCTCACTATAGGGCGGCACGCGCAATCGGCACGAGGCCC
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CTCTGTACCCTGCTGATCGACTGGNAGAATGGGGCCAAGTGTTCATCATCAGCATGCTCA
CCCGNTACGCCGGACGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004644 unedited
GACCGCGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTGGAGAGAAGACATTTT
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TCTCTCTCTGCACAGATCACTAAGGAATCCATGGGGAGGGCATTAGGGGAGGGCTTGGTC
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AAAGTTGGCTGCCTGGGTTTGAGTCACAGAAAATAATGCCCCTTACAGCAGTGGCAGATT
CTTCCAGTGCCAGGGACTCANATTCGGGAAATCTTTGATGCTGATGCANCAAGCAGTTGG
GAGTGCCCACTGCCAGCCCTTGAGGGGGATCAAANCTGTGGAGAAATGGATGCCCCGCAC
CTTTGGGGATCCCGGAAAGGTGGCGCTGAA

Restriction Sites: NotI-NotI

ACCN: NM_004644

Insert Size: 3760 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.

RefSeq: NM_004644.3, NP_004635.2

RefSeq Size: 3746 bp

RefSeq ORF: 3249 bp

Locus ID: 8120

UniProt ID: Q13367

Cytogenetics: 15q25.2

Domains: Adaptin_N

Protein Pathways: Lysosome

Gene Summary: Adaptor protein complex 3 (AP-3 complex) is a heterotrimeric protein complex involved in the formation of clathrin-coated synaptic vesicles. The protein encoded by this gene represents the beta subunit of the neuron-specific AP-3 complex and was first identified as the target antigen in human paraneoplastic neurologic disorders. The encoded subunit binds clathrin and is phosphorylated by a casein kinase-like protein, which mediates synaptic vesicle coat assembly. Defects in this gene are a cause of early-onset epileptic encephalopathy. [provided by RefSeq, Feb 2017]
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.