

Product datasheet for **SC333104**

HPS2 (AP3B1) (NM_001271769) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS2 (AP3B1) (NM_001271769) Human Untagged Clone
Tag:	Tag Free
Symbol:	AP3B1
Synonyms:	ADTB3; ADTB3A; HPS; HPS2; PE
Vector:	pCMV6-Entry (PS100001)



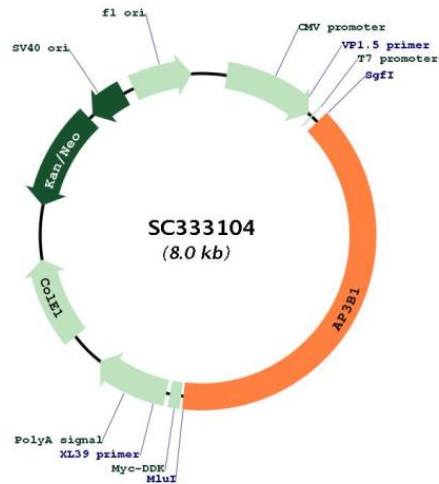
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Fully Sequenced ORF: >SC333104 representing NM_001271769.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001271769

Insert Size: 3138 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_001271769.1](#)

RefSeq Size: 4072 bp

RefSeq ORF: 3138 bp

Locus ID: 8546

UniProt ID: [O00203](#)

Cytogenetics: 5q14.1

Protein Pathways: Lysosome

MW: 116.2 kDa

Gene Summary:

This gene encodes a protein that may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. The encoded protein is part of the heterotetrameric AP-3 protein complex which interacts with the scaffolding protein clathrin. Mutations in this gene are associated with Hermansky-Pudlak syndrome type 2. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (2) uses an alternate splice junction at the 3' end of the first exon compared to variant 1. This transcript initiates translation at an alternate start codon compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.