

Product datasheet for SC117848

HPS2 (AP3B1) (NM_003664) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS2 (AP3B1) (NM_003664) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPS2
Synonyms:	ADTB3; ADTB3A; HPS; HPS2; PE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117848 sequence for NM_003664 edited (data generated by NextGen Sequencing)

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ATGTCCAGCAATAGTTTTCTTACAATGAGCAGTCCGGAGGAGGGGAGGCGACGGAGCTG
GGTCAGGAGGCGACCTCAACCATTTCCCCCTCGGGGCCTTCGGCCTCTTTAGCAGCGAT
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TGGCTAATTGGAGAAAACGTGGAACGAGTTCCTAAAATTGCCCTGATGTTTTGAGGAAG
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 GAACTGAAGGAAGGCTCTACAGCCAGCTTATCATAAACACTGAGAAAACCTGTGATTGGC
 TCTGTTCTGCTGCGGAACTGAAGCCTGTCTGTCTCAGGGGTAA

Clone variation with respect to NM_003664.3
 1069 a=>r;1754 t=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003664 unedited
 NGGGGGAAANNGGAAACGACTCCTATAGGGCGGCCGGAATCGGCACGAGGGCCAGGNC
 GGCTCAGGGAGCCGTGACGAGTCCGGCAGCGCCTGCGCGCTCCTCCGTACGAGAACTA
 GTTTTGTTCCGTGCCCTCTGGACTGGAACCTTTTGGAGAGAACCCTCCGAGGACCAACC
 CCGCACCCGCGCAGCACCGCGCAATGTCCAGCAATAGTTTTCTTACAATGAGCAGTCCG
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 CCTTCGGCCTCTTTAGCAGCGATTTGAAGAACAATGAAGATCTAAAGCACATGTTAGAGA
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 GCACTCCCTGTCCATAACCCCTTTTCAAGGAGCTCTGAAGGACCCAAACCAACTAATCTC
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 TGCCATAACAAAATTATACCGTCTTGATCCATACCAGAAGGAAAATGTTTATTGAAGTAAT
 TGAAAACTTCTCGAAGATAAAAAGCCATCGCTAGCTGGCACTGTTGTGAACGCGCTTCG
 CAACATAATGCCCGTCCCGATATATCCCTTTCTTAAAACCTACCCGCCAGCTATGTAAC
 TTACTATTGGAGGTTGAAAAG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003664 unedited NNTTTTACTCTGGNACCGCGCCGCAANCTAGGATCGAGTTTTTTTTTTTTTTTTTTGA TTCATATGCTAGTTTATTTATCTTATTATTGAGAGATAATTTTCATGATGACAGTTATCAA TAATCAATTACAATATCAAGAAATTCAAAGAACAAAATCTTGCAGAGACTATGCTTTTGT ATTTGGATTTAAAAAGTATGTGATCTCATTTTCACATACCAAGCTGAGAGGCCATTTAGA CTATCTCTTTGCTAATTTTTGCTTACTGCTGTAGGGAAGAAGATTTCCAATGAACTTTAA ATATCTCATTCTGTCTACCATTGTGCGAAAAAGAGAAGGAAAACGAGGAGGCCAAAAGAA GCAGCAGGACAGAGAAAACGCCACATGGATTCAAGAGTTGAGACAACGACAGTAAAATA TATGCTCTTTGGTTAGCAAAGCAAAAAGGGGAAAGTATTGCATACATGATAGATACACA CTAGCATTCTAAAGCAGGAGACAAGAATGTCAAGAGTGTATTCTTCCCCCACTGCCAGA TGGAAAGGCTATTATTATAAATGAAAGGCAGCAGTAGTGGATGCCAGGCACTTTTGTGT GTGCCAGATTCTAAAGTCCAGATGTAAGCAGGTTACCCCTGAGACAGGACAGGCTTTAGT TCCCGCAGCAGAACAGAGGCAATCACAGTTTTCTCAGTGTATGATACGCTGGGCTGA AGAGCCCTCCTTTAGTCCACTGTGACTAGCATAACATGACCCCTGTGCCACAGTTTAG CTGCAAACCTGGGTTTATTATCCTTGCCAGAGGGACTGCCCTACATTGGCTACATTTA CAACCTTCTGAAAGACCCAGAGGAAGTGAATTTGGGTGGACCATGATTACCACAAATTT TTTTCTTCTGT
Restriction Sites:	NotI-NotI
ACCN:	NM_003664
Insert Size:	4200 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:	<ol style="list-style-type: none"> 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_003664.3 , NP_003655.3
RefSeq Size:	4009 bp
RefSeq ORF:	3285 bp
Locus ID:	8546
UniProt ID:	O00203
Cytogenetics:	5q14.1
Domains:	Adaptin_N
Protein Pathways:	Lysosome

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 (1) encodes the longer isoform (1).