

Product datasheet for **RC222999**

HPS4 (NM_152841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS4 (NM_152841) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HPS4
Synonyms:	BLOC3S2; LE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC222999 representing NM_152841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCACTCTGTTCTTCCAGGTGGAATTATTTTTTCTTTATGATGGTTCCAAGGTAAGGAAG
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 AACTTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC222999 representing NM_152841
Red=Cloning site Green=Tags(s)

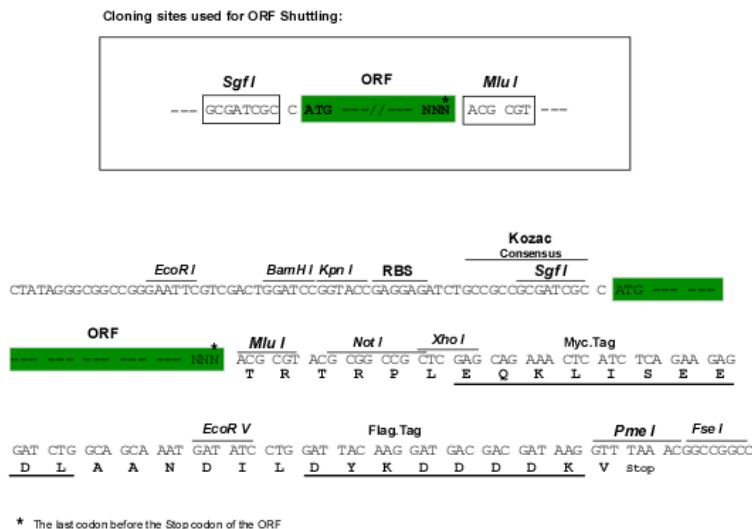
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 LGKELVFLQEELDLSEIHIPEAQEVEMASGHFAFLHVPVPDGRAPYCKASLSASSLEPTPPEDTAISSL
 RPPSAPEMLTQHGAQEQLDHPGHSSQAPIPRADPLPRTRRPLLLPRLDPGQRGNKLPTEQGLDEDVD
 GVCESHAAPGLECSSGSANCQGAGPSADGISSRLTPAESCMGLVRMNLVTHCVKGLVLLSLLAEPELLGDS
 AAIEEVYHSSLASLNGLEVHLKETLPRDEAASSTYNFTHYDRIQSLLMANLPQVATPQDRRFLQAVSL
 MHSEFAQLPALYEMTVRNASAVYACCNPIQETYFQQLAPAARSSGFPNPQDGFSLSGKAKQKLLKHGV
 NLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_152841

ORF Size: 2109 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_152841.2](#), [NP_690054.1](#)

RefSeq Size: 4778 bp

RefSeq ORF: 2112 bp

Locus ID: 89781

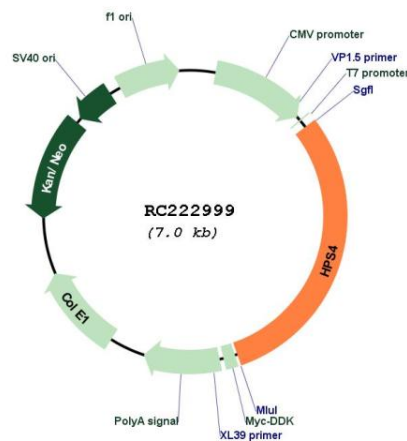
UniProt ID: [Q9NQG7](#)

Cytogenetics: 22q12.1

MW: 76.4 kDa

Gene Summary: This gene encodes a protein component of biogenesis of lysosome-related organelles complexes (BLOC). BLOC complexes are important for the formation of endosomal-lysosomal organelles such as melanosomes and platelet dense granules. Mutations in this gene result in subtype 4 of Hermansky-Pudlak syndrome, a form of albinism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

Product images:



Circular map for RC222999