

Product datasheet for **RC219526**

HPS1 (NM_000195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS1 (NM_000195) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HPS1
Synonyms:	BLOC3S1; HPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC219526 representing NM_000195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAGTGCCTCTTGGTGGCACTGAGGGCGCAGAGGTCCTCTTCTACTGGACAGATCAGGAGTTTGAAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC219526 representing NM_000195
 Red=Cloning site Green=Tags(s)

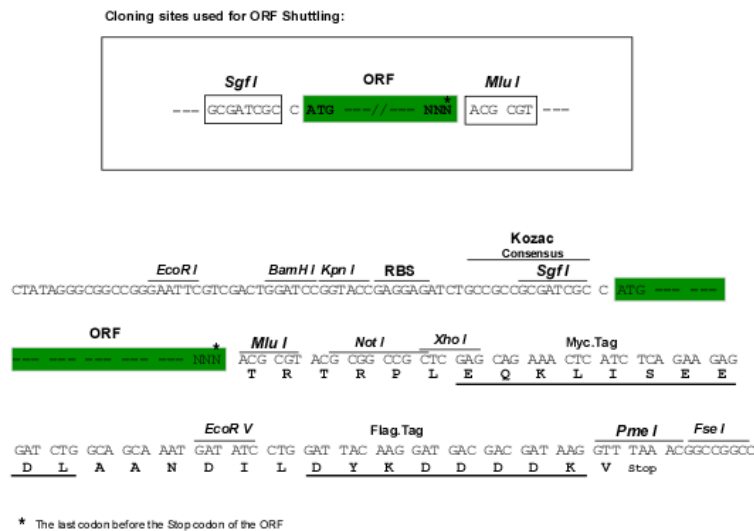
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 CSQKTSSSELGKGLAAAFVKTKVWSLIQLARRYLQKGYTTLLFQEGDFYCSYFLWFENDMGYKLMIEVPV
 LSSDVPVIGMLGGDYRKLRLRYYSKNRPTEAVRCYELLALHLSVIPTDLLVQAGQLARRLWEASRIPLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8019_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000195

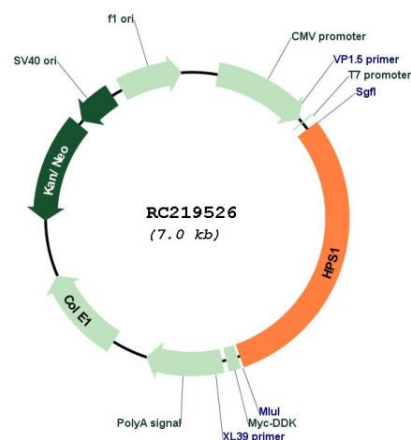
ORF Size: 2100 bp

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](#)

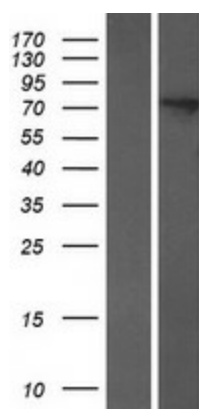
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_000195.5</u>
RefSeq Size:	3714 bp
RefSeq ORF:	2103 bp
Locus ID:	3257
UniProt ID:	<u>Q92902</u>
Cytogenetics:	10q24.2
MW:	79.1 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 a component of three different protein complexes termed biogenesis of lysosome-related organelles complex (BLOC)-3, BLOC4, and BLOC5. Mutations in this gene are associated with Hermansky-Pudlak syndrome type 1. Alternative splicing results in multiple transcript variants. A pseudogene related to this gene is located on chromosome 22. [provided by RefSeq, Aug 2015]

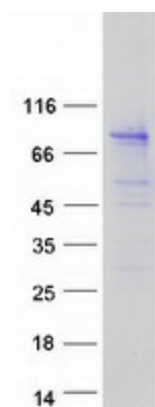
Product images:



Circular map for RC219526



Western blot validation of overexpression lysate (Cat# [LY424869]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219526 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HPS1 protein (Cat# [TP319526]). The protein was produced from HEK293T cells transfected with HPS1 cDNA clone (Cat# RC219526) using MegaTran 2.0 (Cat# [TT210002]).