**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC213679

## HPS1 (NM_182639) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | HPS1 (NM_182639) 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) |

**ORF Nucleotide Sequence:**

>RC213679 representing NM_182639
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGTGCGTCTTGGTGGCCACTGAGGGCGCAGAGGTCCTCTTCTACTGGACAGATCAGGAGTTTGAAG
AGAGTCTCCGGCTGAAGTTCGGGCAGTCAGAGAATGAGGAAGAAGAGCTCCCTGCCCTGGAGGACCAGCT
CAGCACCCTCCTAGCCCCGGTCATCATCTCCTCCATGACGATGCTGGAGAAGCTCTCGGACACCTACACC
TGCTTCTCCACGGAAAATGGCAACTTCCTGTATGTCCTTCACCTGTTTGGAGAATGCCTGTTCATTGCCA
TCAATGGTGACCACACCGAGAGCGAGGGGGACCTGCGGCGGAAGCTGTATGTGCTCAAGTACCTGTTTGA
AGTGCACTTTGGGCTGGTGACTGTGGACGGTCATCTTATCCGAAAGGAGCTGCGGCCCCCAGACCTGGCG
CAGCGTGTCCAGCTGTGGGAGCACTTCCAGAGCCTGCTGTGGACCTACAGCCGCCTGCGGGAGCAGGAGC
AGTGCTTCGCCGTGGAGGCCCTGGAGCGACTGATTCACCCCCAGCTCTGTGAGCTGTGCATAGAGGCGCT
GGAGCGGCACGTCATCCAGGCTGTCAACACCAGCCCCGAGCGGGGAGGCGAGGAGGCCCTGCATGCCTTC
CTGCTCGTGCACTCCAAGCTGCTGGCATTCTACTCTAGCCACAGTGCCAGCTCCCTGCGCCCGGCCGACC
TGCTTGCCCTCATCCTCCTGGTTCAGGACCTCTACCCCAGCGAGAGCACAGCAGAGGACGACATTCAGCC
TTCCCCGCGGAGGGCCCGGAGCAGCCAGAACATCCCCGTGCAGCAGGCCTGGAGCCCTCACTCCACGGGC
CCAACTGGGGGGAGCTCTGCAGAGACGGAGACAGACAGCTTCTCCCTCCCTGAGGAGTACTTCACACCAG
CTCCTTCCCCTGGCGATCAGAGCTCAGGTGAGGACCGGAGGAAAGCAGGAGGAAACAATAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

**Protein Sequence:**

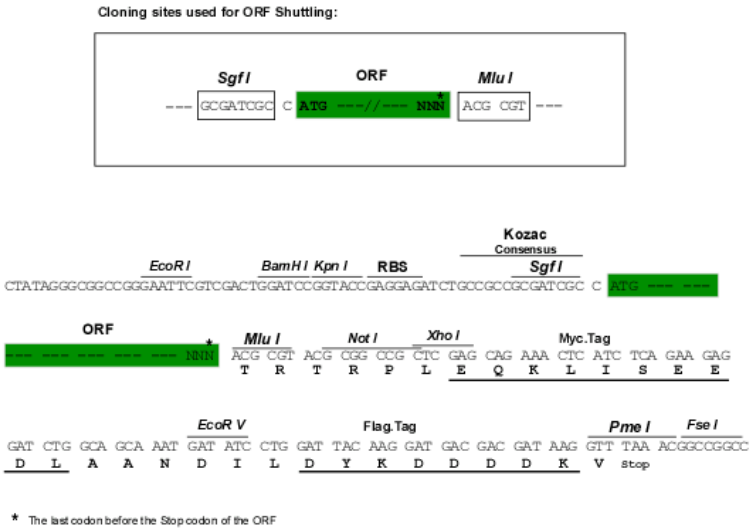
>RC213679 representing NM_182639
Red=Cloning site Green=Tags(s)

MKCVLVATEGAEVLFYWTDQEFEESLRLKFGQSENEEEELPALEDQLSTLLAPVIISSMTMLEKLSDTYT
CFSTENGNFLYVLHLFGECLFIAINGDHTESEGDLRRKLYVLKYLFEVHFGLVTVDGHLIRKELRPPDLA
QRVQLWEHFQSLLWTYSRLREQEQCFAVEALERLIHPQLCELCIEALERHVIQAVNTSPERGGEEALHAF
LLVHSKLLAFYSSHSASSLRPADLLALILLVQDLYPSESTAEDDIQPSPRRARSSQNIPVQQAWSPHSTG
PTGGSSAETETDSFSLPEEYFTPAPSPGDQSSGEDRRKAGGNNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_182639

**ORF Size:** 972 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

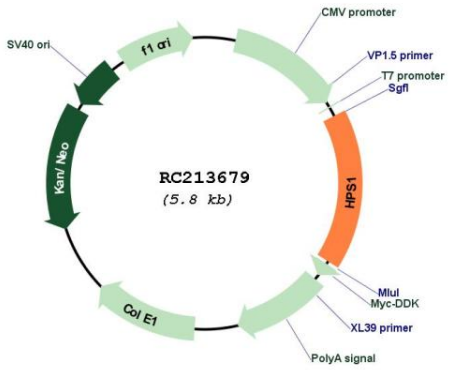
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

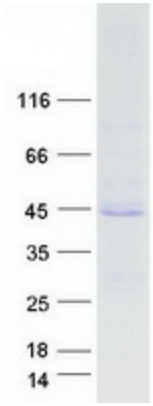
| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NM_182639.3 |
| **RefSeq Size:** | 1625 bp |
| **RefSeq ORF:** | 975 bp |
| **Locus ID:** | 3257 |
| **UniProt ID:** | Q92902 |
| **Cytogenetics:** | 10q24.2 |
| **MW:** | 36.3 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 RC213679

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US




Coomassie blue staining of purified HPS1 protein (Cat# [TP313679]). The protein was produced from HEK293T cells transfected with HPS1 cDNA clone (Cat# RC213679) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US