

Product datasheet for **RG213679**

HPS1 (NM_182639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS1 (NM_182639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HPS1
Synonyms:	BLOC3S1; HPS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213679 representing NM_182639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTGCCTTGGTGGCCACTGAGGGCGCAGAGGTCCTTCTACTGGACAGATCAGGAGTTTGAAG
AGAGTCTCCGGCTGAAGTTCGGGCAGTCAGAGAATGAGGAAGAAGAGCTCCCTGCCCTGGAGGACCAGCT
CAGCACCTCCTAGCCCCGGTCATCATCTCTCCATGACGATGCTGGAGAAGCTCTCGGACACCTACACC
TGCTTCTCCACGAAAAATGGCAACTTCTGTATGTCCTTCACCTGTTTGGAGAATGCCTGTTTCATTGCCA
TCAATGGTGACCACACCGAGAGCGAGGGGACCTGCGGCGGAAGCTGTATGTGCTCAAGTACCTGTTTGA
AGTGCACTTTGGGCTGGTGACTGTGGACGGTCATCTTATCCGAAAGGAGCTGCGGCCCCAGACCTGGCG
CAGCGTGTCCAGCTGTGGGAGCACTTCCAGAGCCTGCTGTGGACCTACAGCCGCCTGCGGGAGCAGGAGC
AGTGCTTCGCGGTGGAGGCCCTGGAGCGACTGATTCACCCCGAGCTCTGTGAGCTGTGCATAGAGGCGCT
GGAGCGGCACGTCATCCAGGCTGTCAACACCGAGCCCCGAGCGGGAGGCGAGGAGGCCCTGCATGCCTTC
CTGCTCGTGCACTCCAAGCTGCTGGCATTCTACTCTAGCCACAGTGCCAGCTCCCTGCGCCCGGCCGACC
TGCTTGCCCTCATCCTCCTGGTTCAGGACCTCTACCCAGCGAGAGCACAGCAGAGGACGACATTCAGCC
TTCCCCGCGAGGGCCCCGAGCAGCCAGAATCCCCGTGCAGCAGGCCCTGGAGCCCTCACTCCACGGGC
CCAACCTGGGGGAGCTCTGCAGAGACGGAGACAGACAGCTTCTCCCTCCCTGAGGAGTACTTCACACCAG
CTCCTTCCCCTGGCGATCAGAGCTCAGGTGAGGACCGGAGGAAAGCAGGAGGAAACAATAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213679 representing NM_182639
Red=Cloning site Green=Tags(s)

MKCVLVATEGAEVLFYWTDQEFEEESRLKFGQSENEEEELPALEDQLSTLLAPVIISMTMLEKLSDTYT
 CFSTENGNFLLVHLFGELFIAINGDHTSEGLRRKLYVLKYLFEVHFGLVTVDGHLIRKELRPPDLA
 QRVQLWEHFQSLWYSLRREQCFEALERLIHPQLCELCIEALERHVIQAVNTSPERGEEALHAF
 LLVHSKLLAFYSSHSASSLRPADLLAILLVQDLYPSESTAEDDIQPSRRARSSQNIPIVQQAWSPHSTG
 PTGGSSAETETDSFSLPEEYFTAPSPGDQSSGEDRRKAGGNNS

TRTRPLE – GFP Tag – V

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).

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: [NM_182639.3](#)

RefSeq Size: 1625 bp

RefSeq ORF: 975 bp

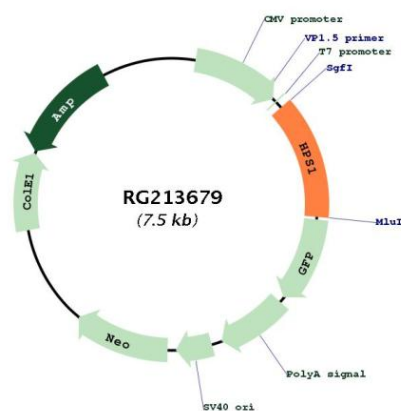
Locus ID: 3257

UniProt ID: [Q92902](#)

Cytogenetics: 10q24.2

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 RG213679