

Product datasheet for **RG219526**

HPS1 (NM_000195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS1 (NM_000195) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG219526 representing NM_000195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAAGTGCCTCTTGGTGGCACTGAGGGCGCAGAGGTCCTCTTCTACTGGACAGATCAGGAGTTTGAAG
 AGAGTCTCCGGCTGAAGTTCGGGCAGTCAGAGAATGAGGAAGAAGAGCTCCCTGCCCTGGAGGACCAGCT
 CAGCACCTCCTAGCCCCGGTCATCATCTCTCCATGACGATGCTGGAGAAGCTCTCGGACACCTACACC
 TGCTTCTCCACGAAAATGGCAACTTCCTGTATGTCTTCACCTGTTTGGAGAATGCCTGTTTCATTGCCA
 TCAATGGTGACCACCGAGAGCGAGGGGACCTGCGCGGAAGCTGTATGTGCTCAAGTACCTGTTTGA
 AGTGCACCTTTGGGCTGGTACTGTGGACGGTCATCTTATCCGAAAGGAGCTGCGGCCCCAGACCTGGCG
 CAGCGTGTCCAGCTGTGGGAGCACTTCCAGAGCCTGCTGTGGACCTACAGCCGCTGCGGGAGCAGGAGC
 AGTGCTTCGCCGTGGAGGCCCTGGAGCGACTGATTCACCCCCAGCTCTGTGAGCTGTGCATAGAGGCGCT
 GGAGCGGCACGTATCCAGGCTGTCAACACCAGCCCCAGCGGGGAGGCGAGGAGGCCCTGCATGCCTTC
 CTGCTCGTGCACTCCAAGCTGTGGCATTCTACTCTAGCCACAGTGCCAGCTCCCTGCGCCCGGCCGACC
 TGCTTGCCCTCATCTCTGTTTCAAGACCTCTACCCAGCGAGAGCACAGCAGAGGACGACATTACGCC
 TTCCCCCGGAGGGGCCGGAGCAGCCAGAACATCCCCGTGCAGCAGGCTGGAGCCCTCACTCCACGGGC
 CCAACTGGGGGAGCTCTGCAGAGACGGAGACAGACAGCTTCTCCCTCCCTGAGGAGTACTTCACACCAG
 CTCCTTCCCCTGGCGATCAGAGCTCAGGTAGCACCATCTGGCTGGAGGGGGGACCCCCCATGGATGC
 CCTTCAGATAGCAGAGGACACCTCCAAACACTGGTTCCTCACTGCCCTGTGCCTTCCGGCCCCAGAAGG
 ATCTTCTGGATGCCAACGTGAAGGAAAGCTACTGCCCCCTAGTGCCCCACACCATGTACTGCCTGCCCC
 TGTGGCAGGGCATCAACCTGGTGTCTGACCAGGAGCCCCAGCGCGCCCTGGCCCTGGTTCGTCCCA
 GCTGATGGATGGCTTCTCCATGCTGGAGAAGAAGCTGAAGGAAGGGCCGAGCCCCGGGGCCTCCCTGCGC
 TCCAGCCCCCTCGTGGGAGACCTGCGCCAGAGGATGGACAAGTTTGTCAAGAATCGAGGGGCACAGGAGA
 TTCAGAGCACCTGGCTGGAGTTTAAGGCCAAGGCTTCTCCAAAAGTGAGCCCGGATCCTCTGGGAGCT
 GCTCCAGGCATGTGGGAAGCTGAAGCGGCAGCTCTGCGCCATCTACCGGCTGAATTTCTGACCACAGCC
 CCCAGCAGGGGAGGCCACACCTGCCCCAGCACCTGCAGGACCAAGTGACAGAGGCTCATGCGGGAGAAGC
 TGACGGACTGGAAGGACTTCTTGTGGTGAAGAGCAGGAGGAACATCACCATGGTGTCTACCTAGAAGA
 CTTCCAGGCTTGGTGCATTCATCTATGTGGACCGACCACTGGGCAGATGGTGGCGCCTTCCCTCAAC
 TGCAGTCAAAGACCTCGTCGGAGTTGGCAAGGGCCGCTGGCTGCCTTTGTCAAACCTAAGGTCTGGT
 CTCTGATCCAGCTGGCGCGCAGATACCTGCAGAAGGGCTACACCACGCTGCTGTTCCAGGAGGGGATTT
 CTACTGCTCCTACTTCTGTGGTTCGAGAATGACATGGGGTACAACTCCAGATGATCGAGGTGCCCGTC
 CTCTCCGACGACTCAGTGCTATCGGCATGCTGGGAGGAGACTACTACAGGAAGCTCCTGCGCTACTACA
 GCAAGAACCGCCAACCGAGGCTGTGAGGTGCTACGAGCTGCTGGCCCTGCACCTGTCTGTATCCCCAC
 TGACCTGCTGGTGCAGCAGGCCGCCAGCTGGCCCGCGCCTCTGGGAGGCCTCCCGTATCCCCCTGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG219526 representing NM_000195
 Red=Cloning site Green=Tags(s)

MKCVLVATEGAEVLFYWTDQEFEEESRLKFGQSENEEEELPALEDQLSTLLAPVLISSMTMLEKLSDTYT
 CFSTENGNFLLVHLFGCELFIAINGDHTESEGLRRLKYLKYLFEVHFGFGLVTVDGHLIRKELRPPDLA
 QRVQLWEHFQSLWYSLRLEQEQCFAVEALERLIHPQLCELCIEALERHVIQAVNTSPERGEEALHAF
 LLVHSKLLAFYSSHSASSLRPADLLALILLVQDLYPSESTAEDDIQSPRRARSSQNIPVQQAWSPHSTG
 PTGGSSAETETDSFSLPEEYFTPAPSPGDQSSGSTIWLEGGTPPMDALQIAEDTLQTLVPHCPVPSGPRR
 IFLDANVKESYCPLVPHTMYCLPLWQGINLVLLTRSPSAPLALVLSQLMDGFSMLEKKLKEGPEPGASLR
 SQPLVGDLRQMDKFVKNRGAQEQSTWLEFKAKAFSKSEPGSSWELLQACGKLRQLCAIYRLNFLT
 PSRGGPHLPQHLQDQVQRLMREKLTDWKDFLLVKSRRNITMVSYLEDFPGLVHFYVDRTTGQMVAPSLN
 CSQKTSSSELGKGLAAAFVKTKVWSLIQLARRYLQKGYTTLLFQEGDFYCSYFLWFENDMGYKLQMIIEVPV
 LSSDVPVIGMLGGDYRKLRLRYYSKNRPTEAVRCYELLALHLSVIPTDLLVQAGQLARRLWEASRIPLL

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_000195.5](#)

RefSeq Size: 3714 bp

RefSeq ORF: 2103 bp

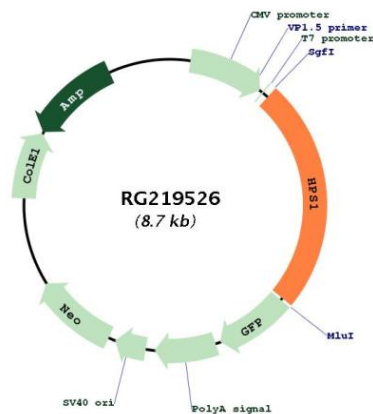
Locus ID: 3257

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 RG219526