

## Product datasheet for **SC110711**

### HPS4 (NM\_022081) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HPS4 (NM_022081) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPS4
Synonyms:	BLOC3S2; LE
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC110711 sequence for NM\_022081 edited (data generated by NextGen Sequencing)

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ATGGCCACCTCTACCTCCACAGAGGCAAAGTCAGCCTCGTGGTGAATTATTTTTTCTT
TATGATGGTTCCAAGGTAAGGAAGAAGGCGATCCAACAAGAGCTGGCATTGTACTTT
TATCCTTCCCAGACCCTGCTAGACCAACAGGAGTTGCTTGTGGACAGATTGCTGGAGTT
GTCCGCTGTGTTTCTGACATTTCTGACTCTCCTCTACTCTTGTTCGCTGAGAAAAGT
AAGTTTGCATAAAAAGTTGATGGAGATTACCTTTGGGTGCTGGGCTGTGCTGTGGAGCTC
CCTGATGTCAGCTGCAAGCGGTTTCTGGATCAGCTAGTTGGATTCTTTAATTTTTACAAT
GGACCTGTTTCCCTAGCTTATGAGAAGTGTCTCAGGAAGAACTGAGCACGGAGTGGGAC
ACCTTCATCGAGCAAATTCTGAAAAACACCAGTGATCTGCATAAGATTTTCAATTCCTC
TGGAACTTGGACCAAATAAAGTGGAGCCCTGTTGTTGCTGAAGGCAGCCCGCATTCTG
CAGACCTGCCAGCGCTCGCCTCACATTCTCGCTGGCTGCATCCTCTATAAAGGACTGATT
GTCAGCACCCAACTCCCGCCTCCCTCACCGCAAAGTCTGCTTACCGAACAGCACCT
CAGGAGCAGAGACTCCCTACGGGAGAGGATGCCCCGAGGAACATGGAGCGGCATTGCC
CCGAATGTCCAGATTATCCCTGTTTTTGTGACCAAGAGGAAGCCATTAGTCTCCACGAG
TTCCCGGTGGAACAGATGACAAGTCTCTAGCATCTCCAGCAGGACTCCAGGATGGTTCA
GCCCAGCACCATCAAAGGGTGGGAGCACATCTGCCCTGAAAGAAAACGCCACTGGCCAT
GTGGAATCCATGGCCTGGACCACCCAGATCCCACATCCCCTGACGAAGCTTGTCCAGAT
GGCAGGAAGGAGAACGGATGCTTGTCTGGCCATGATCTGGAGAGCATCAGGCCCGCAGGA
CTGCACAACTCTGCCAGGGGTGAGGTTCTTGGCCTCAGCTCCTCCCTGGGGAAGGAACTA
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GAAATGGCCTCAGGTCATTTTGCCTTCTACATGTGCTGTTCCAGATGGCAGGGCTCCT
TACTGCAAGGCATCTCTCAGCGCCTCCAGCAGCCTGGAACCCACGCTCCTGAGGACACA
GCCATCAGCAGTTGCGCCCTCCCTCTGCTCCTGAGATGCTGACCCAGCATGGAGCCCAA
GAGCAGCTCGAAGACCATCCTGGCCATAGCAGCCAAGCCCCATTCCAGAGCAGACCCT
CTCCCCAGAAGGACCCGAGGCCCTTGTATTGCCTCGCTTAGATCCAGGACAGAGAGGA
AACAAAGCTTCCCACGGGGGAACAAGGCCTGGATGAGGATGTTGATGGGGTCTGTGAAAGC
CACGCAGCCCCTGGTCTGGAATGCAGTTCAGGCTCAGCAAATGTCAGGGTGTGGCCCC
TCTGCAGATGGAATCAGTCCAGGCTGACACCAGCAGAGTCTGCATGGGGCTCGTGAGG
ATGAATCTTACTACTACTGCGTCAAAGGGCTGGTGTGCTCCCTGCTGGCTGAGGAGCCG
CTGCTGGGAGACAGCGCAGCCATAGAGGAAGTGTACCACAGCAGCCTGGCTTCACTGAAT
GGGCTGGAAGTCCACCTGAAAGAGACGCTGCCAGGGATGAGGCAGCCTCCACGAGCAGC
ACCTACAATTACACATTACGACCGCATTACAGAGCTTGCTGATGGCAAACCTGCCACAG
GTGGCCACCCCGCAGGATCGCCGCTTCCCTCCAGGCCGTCAGCCTGATGCATAGCGAATTT
GCCAGCTGCCCGCGCTTATGAAATGACTGTCAGAAATGCCTCCACGGCTGTGTACGCC
TGTTGCAACCCCATCCAGGAGACATATTTCCAGCAGCTGGCACCTGCAGCACGGAGCTCC
GGCTTCCCAAACCTCAGGATGGCGCTTCAGCCTCTCCGGCAAAGCAAAGCAGAAGCTG
CTGAAGCACGGGGTGAATTGCTCTGA

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Clone variation with respect to NM\_022081.4  
1857 g=>a

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_022081 unedited            GAATTCGGCACGAGGCGGGGCGGCGCGTGACCTAAGGCCTCTCTGCCGCGCGCGCAGAGC            CAAGGCACTGATGTTTGAAGTGGAACTTCAAACGTTTAATAAGAGTCTTCAGGATGGG            TTTGAACTAGACAAGCTAGAAATTTCTTTAGAACCAGCTCTAGCATGCATCTCCCACT            TTTGGCTTTCCTGGAGAGGAGCTTGAAGAGGTGGTTCTGCAGACAGCCACAGTGATACTT            AGGAAACCAGAGGAATGGATTTGACTTTTCTGCTAGGATTCTCTGTTATAGTTTCTCCCT            GAGTTGTAAGAGGCATGAAAATAACATGAAACTGAAGAACCTGCAAGGAAGGGAAGTGG            AACTTTCCATGCTGAGTAAAATAACCAAGTGGCAGTTGTGACTGAAAACACTGAAACC            TACCACGTCCAGATTCAGTGGATTGGGGATAGAGGAACGGTCACAGCTAGGGAGAAAGA            AGTGATACCGAAAAGAAAACCTAAATGAAGAGAATGAGGATGACTGCACAGTAGATGGC            CACCTCTACCTCCACAGAGGCAAAGTCAGCCTCGTGGTGGAAATTTTTTTTTCTTTATGA            TGGTTCCAAGGTAAGGAAGAAGGCGATCCAACAAGAGCTGGCATTGTACTTTTATCC            TTCCAGACCCTGCTAGACCAACAGGAGTTGCTTTGTGGACAGATTGCTGGGAGTGCCG            CTGTGTTTCTGACATTTCTGACTCTCCTCTACTCTTG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_022081 unedited            GTTTTTATCTATGCCNCGCGCCCGCATCCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCA            TTTTTGGCTATTTTATTCTAGCCCTTGGAAAGCTTGTTCAAAAAAGAACCATATCA            TAAACATCAGATATCAGTTCAGTACATGAAATTATTAACAATACAACCTCAAATGGAA            TCTCAAGTACTTCCAGTAAACATTCAGTTAAGATTTTGACAAATATTTTCATCCTGCAGT            CTGTCTCATACTGTCAAAAAATGTCTGACTATAACGTAATAGAAGTGGTTCTAAGTA            CCACACAAGCCCAGGAACACACAGCTGAGTGTGCTCCCTTTCAGGCAGCCACCATTGAA            AAGCACAGTGCTTTTACCCCGACATCTTGTAAGTCCCTATTTAGGGACTCGCTCGA            GAGGAACCAGCTGCACGGCCCACTTGTACTCAAAGGCAGCGCACCTTGGTCTGTGTCA            CTGAATTTCTACGGCTCAGCCCCAGAGCTTTATAAAGGGACCCCTCAAAGCCAAACTC            CCTTCCATATTATTACCGCTTGCCCCATTGCGGGCCCAATATACACCCCTACCACCG            ACCATAGCCTCACCAGCATCCAACCACCCGGTCCCACCGTGCCGCGCTTCCCCTGCAGA            CCCACCCGGCCCTCCCCTCTTGAGCGCCTTGCCAAACCCCGCCCTGCGCCACCGGT            TTCCCTGTCTCACACCTCCGGGATTAGTCGTGCCCTCCCCCTCTACCACTCTCTCTT            CCGGGCTCCAACCCATTCTTTGCATCATCCCCCCCCCTCCCCCCCATAACCTTCTCCC            CCCCCGTGGCGCTATCCACCCCTTCTCGCATTATAGTAATCAGCCCCCTCCGTTTCCCAA            CCACACCGTACCCTTCCCCTCCCTCCC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_022081
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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\\_022081.4](#), [NP\\_071364.4](#)

**RefSeq Size:** 4539 bp

**RefSeq ORF:** 2127 bp

**Locus ID:** 89781

**UniProt ID:** [Q9NQG7](#)

**Cytogenetics:** 22q12.1

**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]

Transcript Variant: This variant (1) encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.