

## Product datasheet for RC218495

### HPS5 (NM\_181507) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HPS5 (NM_181507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HPS5
Synonyms:	AIBP63; BLOC2S2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218495 representing NM_181507 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTTTTGTGCCAGTGATACCAGAGTCTACAGCCATGTTCTTGCAGAGTTTGAATCTCTGGATCCAT  
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TGACTTGGACAGAAAGGGAATTTATATTTTTCATTCTCAGAATGTTCAAGTCTTCTTTGGAGTGAAGT  
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GACCTGCCAGATCAGTGTGTGGCTCACACGGAAATGAAGACAATGTTTCTCATGCTCCAGTGATGTTTG  
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ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218495 representing NM\_181507  
 Red=Cloning site Green=Tags(s)

MAFVVPVIPESYSHVLAEFESLDPLL SALRLDSSRLKCTSI AVSRKWLALGSSGGGLHLIQKEGWKHLFL  
 SHREGAISQVACCLHDDDYVAVATSQGL VVVWELNQERRGKPEQMYVSSEHKGRRVTALCWDTAILRVFV  
 GDHAGKVSAILKNTSKQAKAAAAFVMFPVQTITTVDSVVQLDYLDGRLLISSL TRSFLCDTEREKFWKI  
 GNKERDGEYGACFFPGRCSGGQQPLIYCARGPSRMWEVNFIDGEVISTHQFKKLLSLPPLPVITLRSEPQY  
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 HLSLISVERCVERLLRRGLWNL AARTCCLFQNSVIASRARKTLTADKLEHLKSQLDHGTYNLDLSQLEEL  
 ILKFEPLDSACSSRRSSISSHESFSILDSGIYRIISSRRGSQSDSDCSLHSQTLSEDERFKEFTSQQEE  
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 FESESLRMVLQEWL SHLEKTFAMKDFSGVSDTDNSSMKLNQDVLVNESKKGILDEDNEKEKRDLSGNEE  
 SVDKTACECVRSPRESLDDL FQICSPCAIASGLRNDL AELTTLCELVNLSKIKSTSGHVDHTLQQYSP  
 EILACQFLKKYFLLNLKRAKESIKLSYNSPSPVWDTFIEGLKEMASSNPVYMEMEKGDLPTRLKLLDDE  
 VPFDSPLL VVYATRLYEKFGESALRSLIKFFPSILPSDI IQLCHHHPAEFLAYLDSL VKSRPEDQRSFL  
 ESLLQPESLRLDLLLLAVSLDAPPSTSTMDEGYRPHSHLLSWGYSQLILHLIKLPADFITKEKMTDIC  
 RSCGFWPGYLILCLELERRREAF TNIVYLNDSLMEGDNGWIPETVEEWKLLLHLIQSKSTRPAPQESLN  
 GSLSDGSPINVENVALLLAKAMGPDRAWLLQECGLALELSEKFRTRCDILRIA EKQRALIQSMLEKC  
 DRFLWSQQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8021\\_d06.zip](https://cdn.origene.com/chromatograms/mk8021_d06.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

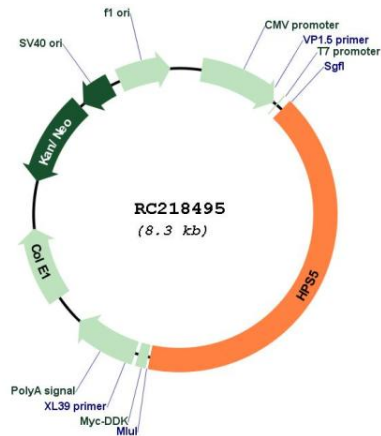


ACCN: NM\_181507

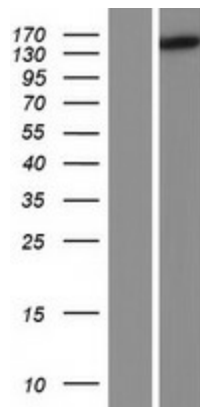
ORF Size: 3387 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_181507.2</a>
<b>RefSeq Size:</b>	4880 bp
<b>RefSeq ORF:</b>	3390 bp
<b>Locus ID:</b>	11234
<b>UniProt ID:</b>	<a href="#">Q9UPZ3</a>
<b>Cytogenetics:</b>	11p15.1
<b>MW:</b>	127.3 kDa
<b>Gene Summary:</b>	This gene encodes a protein that may play a role in organelle biogenesis associated with melanosomes, platelet dense granules, and lysosomes. This protein interacts with Hermansky-Pudlak syndrome 6 protein and may interact with the cytoplasmic domain of integrin, alpha-3. Mutations in this gene are associated with Hermansky-Pudlak syndrome type 5. Multiple transcript variants encoding two distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218495



Western blot validation of overexpression lysate (Cat# [LY405678]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218495 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).