

Product datasheet for RC207552

HPS5 (NM_181508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPS5 (NM_181508) 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:	>RC207552 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATGTGTCTTCAGAACACAAAGGCCGAAGAGTCACAGCTCTCTGCTGGGATACAGCTATTCTTAGAG
TTTTTGTAGGTGATCATGCTGGGAAGTTTCTGCTATCAAACCTCAATACTTCTAAACAAGCAAAGGCAGC
TGCTGCTTTTGTGATGTTTCTGTTTCAGACAATCACAACCTGTTGACTCCTGTGTTGTACAGTTAGATTAT
TTGGATGGAAGGCTACTTATATCTTCACTTACTCGATCCTTCTTGTGTGACACTGAGAGAGAAAAGTTTT
GGAAAATTGGAACAAGGAAAGAGATGGAGAATATGGAGCTTGTCTTTCTTCTGGAAGATGTTCTGGGGG
CCAGCAACCTCTGATATATTGTGCTCGCCAGGCTCTAGGATGTGGGAAGTGAACCTTGTGAGAGAAGTT
ATAAGTACACATCAGTTCAAGAACTCCTCTCGTTGCCACCTCTCCCTGTGATTACTCTAAGATCAGAAC
CTCAGTATGATCATAACAGCTGGATCCTCCAGTCTTTGTCTTTCCCAAACCTTACATCTTAGTGAGCA
TTGTGTGCTGACTTGGACAGAAAGAGGAATTTATATTTTCATTCCTCAGAATGTTCAAGTTCTTCTTTGG
AGTGAAGTCAAAGATATTCAGGATGTGGCTGTCTGTAGGAATGAATTGTTCTGTTTGACCTAAATGGGA
AAGTCTCACATCTCTCCCTGATATCTGTGGAGCGCTGTGTGGAACGCCTGCTAAGAAGAGGCCTATGGAA
CTTGGCTGCTCGTACATGCTGTCTTTTCCAAAATCTGTCAATGCCAGCAGAGCAAGAAAACTTTGACT
GCAGATAAATTGGAGCATTGAAATCTCAGCTGGACCATGGCACCTACAATGATCTAATTTCTCAACTGG
AAGAATTGATCTTAAAAATTTGAACCTTTGGATTGAGCTTGTAGCAGTAGAAGAAGCTCCATTTTCATCACA
TGAAAGTTTCAGCATCTTGGACTCTGGTATTTATCGTATCATTAGTAGTAGAAGAGGCAGTCAGTCAGAT
GAAGACTCTTGCTCCCTTACAGCCAAACCCTCTCAGAAGATGAGAGATTTAAAGAATTCACCTCACAGC
AGGAAGAGGACCTGCCAGATCAGTGTGTTGGCTCACACGGAAATGAAGACAATGTTTCTCATGCTCCAGT
GATGTTTGTGACAGATAAGAATGAACTTTTCTCCCGTTCGGCATTCCATTACCATTTCTGTTCTCCATCT
CCTTTGTGCTCTTTCAGGCTGTCAAAGAAAGTGTCTAGCTTTGTGCGTAAAACCTACTGAGAAGATTG
GCACCTTTCACACGAGCCCTGATCTGAAAGTGAGACCAGAGCTCAGGGGTGATGAGCAATCATGTGAAGA
GGATGTGAGTTTCAGATACCTGCCAAAGGAGGAAGACACTGAGGAGGAAAAGAGGTAACCTAGTCCACCT



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CCAGAAGAAGACAGGTTCCAGGAGCTTAAAGTAGCAACAGCAGAAGCAATGACCAAGCTACAGGACCCTC
 TGGTTTTATTTGAATCCGAGTCTCTGAGAATGGTTTTACAGGAGTGGCTTTCACATTTAGAAAAACATT
 TGCCATGAAGGACTTTTCAGGTGTTTCCAGTACTGACAACTCATCCATGAAATTTGAACCAGGATGTGCTA
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 ATGACGAGGTTCTTTTATAGTCCGTTGTTGGTTGTTTATGCTACCCGTTGTATGAAAAGTTGGGGA
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 AAAAATGCGATCGGTTTCTCTGGTCCCAGCAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207552 protein sequence
 Red=Cloning site Green=Tags(s)

MYVSSEHKRRVTALCWDTAILRVFVGDHAGKVSAILKNTSKQAKAAAFVMFPVQITITVDSCVVQLDY
 LDGRLLISSLTRSFLCDTEREFWKIGNKERDGEYGFPGRCSSGGQPLIYCARPGRMWEVNFVDFGEV
 ISTHQFKLLSLPPLPVITLRSEPQYDHTAGSSQSLSPFKLLHLSEHCVL TWTERGIYIFIPQNVQVLLW
 SEVKDIQDVAVCRNELFCLHLNGKVSHLSISVERCVERLLRRGLWNLAARTCCLFQNSVIASRARKLT
 ADKLEHLKSQLDHGTYNLISQLEELILKFEPLDSACSSRRSSISSHESFSLDSGIYRIISSRRGSQSD
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 PLVSLQAVKESVSSFVRKTTEKIGTLHTSPDLKVRPELRGDEQSCEEDVSDTCPKEEDTEEEKEVTSP
 PEEDRFQELKVATAEAMTKLQDPLVLFESLSRMVLQEWL SHLEKTFAMKDFSGVSDTDNSMMLNQDVL
 LVNESKKGILDEDNEKEKRDLSLGNEESVDKTACECVRSPRESLDDL FQICSPCAIASGLRNDLAELTTLC
 LELNVLNSKIKSTSGHVDHTLQQYSPEILACQFLKKYFLLNLKRAKESIKLSYNSPSPVWDTFIEGLKE
 MASSNPVYMEMEKGDLPTRLKLLDDEVPFDSPLL VVYATRLEYKFGESALRSLIKFFPSILPSDIIQLCH
 HHPAEFLAYLDSLVRPEDQRSSFLSLLQPESLRDLWLLLAVSLDAPPSTSTMDEGYPRPHSHLLSW
 GYSQLILHLIKLPADFITKEKMTDICRSCGFWPGYLILCLELERRREAFNTIVYLNDSMLMKGDNGWIPE
 TVEEWKLLHLIQSKSTRPAPQESLNGSLSDGSPSPINVENVALLLAKAMGPDRAWLLQECGLALELSEK
 FTRTCDILRIAIEKRQRALIQSMLEKCDRFLWSQQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6204_e04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_181508

ORF Size: 3045 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_181508.1](#), [NP_852609.1](#)

RefSeq Size: 4536 bp

RefSeq ORF: 3048 bp

Locus ID: 11234

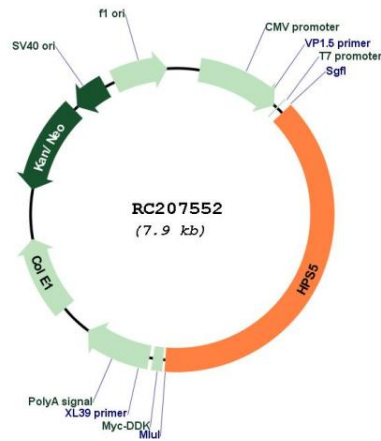
UniProt ID: [Q9UPZ3](#)

Cytogenetics: 11p15.1

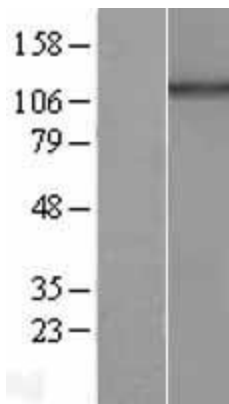
MW: 114.8 kDa

Gene Summary: 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 RC207552



Western blot validation of overexpression lysate (Cat# [LY402113]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC211614] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).