

## Product datasheet for **RC220305**

### Huntingtin Associated Protein 1 (HAP1) (NM\_001079870) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Huntingtin Associated Protein 1 (HAP1) (NM_001079870) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Huntingtin Associated Protein 1
Synonyms:	HAP2; hHLP1; HIP5; HLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC220305 representing NM\_001079870  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGCCCGAAGAGGTTGGGCCGTGCTGCGCGGGAGCCGGCTCGGACCCGGGGACCCAGCAGCACTCA  
 CCTGTGCACCTTCGCCCTCAGCCAGTCCCCTCGGAGCCCTCTGCGCAGCCGCAGGCACGGGGCACTGG  
 ACAGAGAGTAGGATCCCAGCCACCTCTGGATCCAGTTCCTCTCGGAAGCCCGACCCGGAGCTCGCCCG  
 GCCTCGGAGGCTGGAGCCAAGGCAGGAGCCCGCGCCCGTCCGCATTCTCGGCCATCCAAGGGGATGTCC  
 GGTCTATGCCGACAATTCGACGCGCCGTGGACCCGCTTCGATTCCAAGGGCCGTTTGGTTCCCGGGC  
 CACTGGCCGGGGACTGGAAGGCAGCGGGCATCTGGAAGACGCCAGCCCTACGTTGGCCGGCGACCC  
 GGGGTGTCGGCCCTGAGCGCGCCCTTTATTCGGGAGCTGGAGGAAGCACTGTGCTAACCTACCTC  
 CGCCAGTCAAAAAGATCACCCAGGAAGACGTCAAAGTGTATATTTGCTGGAGGAGGTGTACTGC  
 CTTCTGATCCAGCTTCTCCACCTGTCTGGGAGAGCGTTACCTATGGGATGGTCTGCAGAGAGAGAGG  
 GACCTGAACACTGCAGCTCGCATCGGCCAGTCCCTGGTGAACAGAACAGTGTTTTGATGGAGGAGAACA  
 GCAAGCTGGAAGCCCTGCTGGGCTCAGCCAAGGAGGAGATTTTATACCTCAGACACCAGGTGAACCTGCG  
 GGATGAGCTCCTCCAGCTCTACTCAGATTCTGATGAGGAGGATGAGGATGAAGAAGAGGAGGAGGAAGAA  
 AAGGAGGCAGAAGAGGAACAGGAAGAAGAAGAAGCAGAGGAAGACCTGCAGTGTGCTCATCCCTGTGATG  
 CCCCTAAGCTGATTTTCGAGGAGGCATTGCTGCACCAGCACCCTGCCACAGCTGGAAGCCTTGCAGGA  
 GAAGCTGAGGCTGCTGGAGGAGGAGAATCATCAGCTGAGAGAAGAGGCCCTCAACTCGACACTCTTGAG  
 GATGAGGAACAGATGCTCATTCTGGAGTGTGGAGCAGTTTTTCGAGGCCAGCCAACAGATGGCTGAGC  
 TGTCGGAGGTGCTGGTCTCAGGCTGAAAACATGAACGCAGCAGCAGGAGGTGCTCGCTGCAGG  
 CCAGGTGCTGAAGCTGCAGCAGCCGCTGCCGATGGAGACTCTTCCTGGTTTCCAGGAGACGCTGGCTGAG  
 GAGCTCAGAACGCTCTAAGGAGGATGATCTCAGACCCTGTGATTTTATGGAGGGAATTATGAGATGC  
 CCAGAGGGGACACATCCAGCCTAAGGTATGATTTTCGCTACAGTGGATCGAGAGCAGGTGCGGGGGTT  
 TGAGGCTGAGGAAGGTTGATGCTGGCAGCGGATATCATGCGGGGGGAAGATTTACGCCTGCGGAGGAG  
 TTCGTGCCCCAGGAGGAGCTGGGGCTGCCAAGAAGGTGCCGGCTGAGGAAGGGGTGATGGAAGAGGCAG  
 AGCTGGTGTGAGAGGAGCCGAGGGCTGGGAGGAGGTGGAAGTGGAGCTGGATGAGGCAACGCGGATGAA  
 CGTGGTGACATCAGCCCTGGAGGCCAGCGCTTGGCCCTTACACCTGGACATGAATTATGCTCCAG  
 CAGCTGGCCAACGGCAAGATGCCATTACAGGCGGCAGCTGAGGTGGAAGATGCTCCAGAAAGGTGAGT  
 GCCCCACGGGGCCCTCCCTGCCCCAGCCGGACAAGCTGCAGATCGTCTGCGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC220305 representing NM\_001079870  
 Red=Cloning site Green=Tags(s)

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPESAQPQARGTGQRVGSRATSGSQFLSEARTGARP  
 ASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGFSGRATGRGTGKAAGIWKTPAAYVGRRP  
 GVSGPERAAFIRELEALCPNLPPPVKKITQEDVKVMLYLLEEVCTAFLIQLLPPVWESVTYGMVLQRRR  
 DLNNTAARIGQSLVKQNSVLMENSKLEALLGSAKEEILYLRHQVNLRDQLLYSDSDEEDEDEEEEEEE  
 KEAEQEEQEEEAEDLQCAHPCDAPKLISQEALLHQHCPQLEALQEKLRLLEENHQLREEASQLDTLE  
 DEEQMLILECVEQFSEASQQAELSEVLVLRLENYERQQQEVARLQAQVLKQLQRCRMETLPGFQETLAE  
 ELRTSLRRMISDPVYFMERNYEMPRGDTSSLRYDFRYSEDREQVRGFEAEGLMLAADIMRGEDFTPAAE  
 FVPQEELGAAKKVPAEEGVMEEAELVSEETEGWEEVELELDEATRNVVTSALASGLPShLDMNYVLQ  
 QLANWQDAHYRRQLRWKMLQKGECPHGALPAASRTSCRSSCR

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8069\\_c04.zip](https://cdn.origene.com/chromatograms/mk8069_c04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001079870

ORF Size: 1806 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\\_001079870.1](#), [NP\\_001073339.1](#)

RefSeq Size: 3893 bp

RefSeq ORF: 1809 bp

Locus ID: 9001

UniProt ID: [P54257](#)

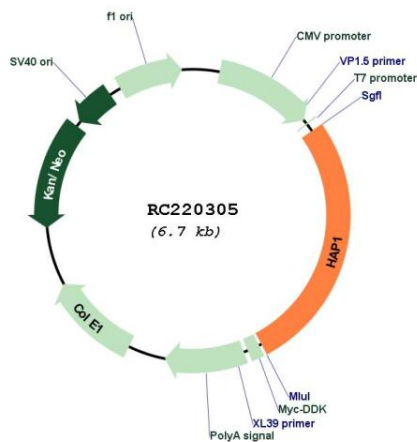
Cytogenetics: 17q21.2

Protein Pathways: Huntington's disease

MW: 67.4 kDa

**Gene Summary:** Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with huntingtin, with two cytoskeletal proteins (dynactin and pericentriolar autoantigen protein 1), and with a hepatocyte growth factor-regulated tyrosine kinase substrate. The interactions with cytoskeletal proteins and a kinase substrate suggest a role for this protein in vesicular trafficking or organelle transport. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC220305