

Product datasheet for **RC220440**

Huntingtin Associated Protein 1 (HAP1) (NM_001079871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Huntingtin Associated Protein 1 (HAP1) (NM_001079871) 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)



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ORF Nucleotide Sequence:

>RC220440 representing NM_001079871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCCCGAAGAGGTTGGGCCGTGCTGCGCGGGAGCCGGCTCGGACCCGGGGACCCAGCAGCACTCA
 CCTGTGCACCTTCGCCCTCAGCCAGTCCCCTCGGAGCCCTCTGCGCAGCCGCAGGCACGGGGCACTGG
 ACAGAGAGTAGGATCCCAGCCACTCTGGATCCAGTTCCTCTCGGAAGCCCGCACCGGAGCTCGCCCG
 GCCTCGGAGGCTGGAGCCAAGGCAGGAGCCCGCGCCCGTCCGCATTCTCGGCCATCCAAGGGGATGTCC
 GGTCTATGCCGACAATTCGGACGCGCCGTGGACCCGCTTCGTATTCCAAGGGCCGTTTGGTTCCCGGGC
 CACTGGCCGGGGACTGGAAGGCAGCGGGCATCTGGAAGACGCCAGCCCTACGTTGGCCGGCGACCC
 GGGGTGTCGGCCCTGAGCGCGCCGCTTTATTCGGGAGCTGGAGGAAGCACTGTCTAACCTACCTC
 CGCCAGTCAAAAAGATCACCCAGGAAGACGTCAAAGTGATGTTATATTTGCTGGAGGAGCTTCTCCACC
 TGCTGGGAGAGCGTTACCTATGGGATGGTCTGCAGAGAGAGAGGACCTGAACACTGCAGCTCGCATC
 GGCCAGTCCCTGGTGAACAGAACAGTGTGTTGATGGAGGAGAAGCAAGCTGGAAGCCCTGCTGGGCT
 CAGCCAAGGAGGAGATTTATACCTCAGACACCAGGTGAACTTGCGGGATGAGCTCCTCCAGCTCTACTC
 AGATTCTGATGAGGAGGATGAGGATGAAGAAGAGGAGGAGGAAGAAAAGGAGGCAGAAGAGGAACAGGAA
 GAAGAAGAAGCAGAGGAAGACCTGCAGTGTGCTCATCCCTGTGATGCCCTAAGCTGATTTTCGACAGGAGG
 CATTGCTGCACACGACCACTGCCACAGCTGGAAGCCTTGACAGGAGAAGCTGAGGCTGCTGGAGGAGGA
 GAATCATCAGCTGAGAGAAGAGGCTCTCAACTCGACACTTTGAGGATGAGGAACAGATGCTCATTCTG
 GAGTGTGTGGAGCAGTTTTTCGGAGGCCAGCCAACAGATGGCTGAGCTGTGCGAGGTGCTGGTCTCAGGC
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 GGTATGATTTTCGCTACAGTGAAGATCGAGAGCAGGTGCGGGGGTTTGGAGCTGAGGAAGGGTTGATGCT
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 GCTGCCAAGAAGGTGCCGGCTGAGGAAGGGGTGATGGAAGAGGCAGAGCTGGTGTGAGAGGAGACCAGG
 GCTGGGAGGAGGTGAACTGGAGCTGGATGAGGCAACGCGGATGAACGTGGTACATCAGCCCTGGAGGC
 CAGCGGCTTGGCCCTTACACCTGGACATGAATTATGCTCTCCAGCAGCTGGCCAAGTGGCAAGATGCC
 CATTACAGGCGCAGCTGAGGTGGAAGATGCTCCAGAAAGGTGAGTGCCCCACGGGGCCCTCCCTGCCG
 CCAGCCGGACAAGCTGCAGATCGTCGTGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC220440 representing NM_001079871
 Red=Cloning site Green=Tags(s)

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPESAQPQARGTGQRVGSRATSGSQFLSEARTGARP
 ASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGFSGSRATGRGTGKAAGIWKTPAAYVGRPP
 GVSGPERAAFIREEALCPNLPPPVKKITQEDVKVMLYLLELLPPVWESVTYGMVLQERDLNTAARI
 GQSLVKQNSVLEENSKLEALLGSAKEEILYLRHQVNLRDELLQLYSDSDEEDEDEEEEEEEKEAEEEQE
 EEEAEEDLQCAHPCDAPKLISQEALLHQHHCPLQLEALQEKLRLLEENHQLREEASQLDLEDEEQMLIL
 ECVEQFSEASQQMAELSEVLVLRLENYERQQQEVARLQAQVLLKQQRCRMETLPGFQETLAEELRTSLRR
 MISDPVYFMERNYEMPRGDTSSLRDYDFRYSEDREQVRGFEAEGLMLAADIMRGEDFTPAEEFVPQEELG
 AAKKVPAAEEGVMEEAELVSEETEGWEEVELELDEATRMNVVTSALEASGLGPSHLDMNYVLQQLANWQDA
 HYRRQLRWKMLQKGECPHGALPAASRTSCRSSCR

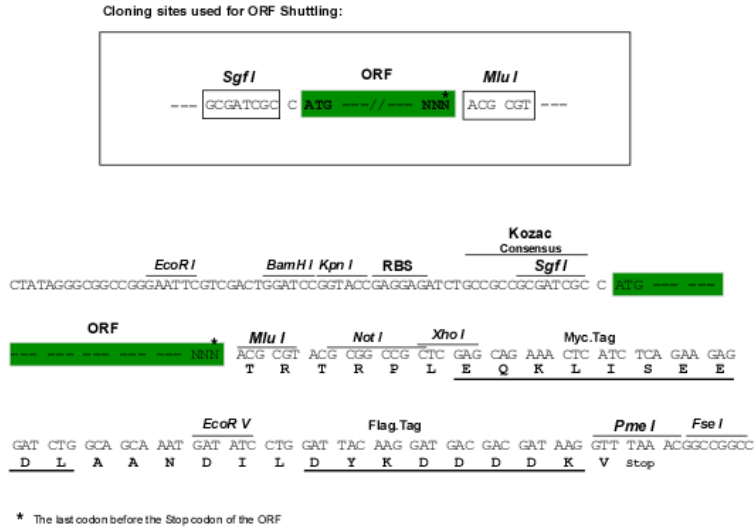
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1098_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001079871

ORF Size: 1782 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_001079871.1](#), [NP_001073340.1](#)

RefSeq Size: 3869 bp

RefSeq ORF: 1785 bp

Locus ID: 9001

UniProt ID: [P54257](#)

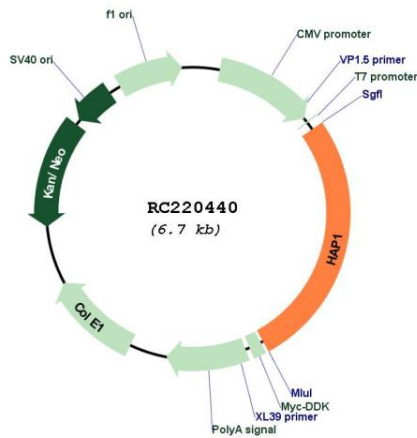
Cytogenetics: 17q21.2

Protein Pathways: Huntington's disease

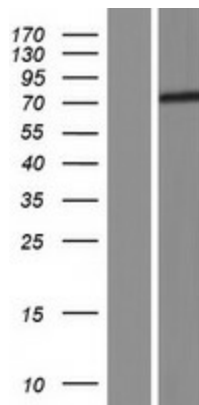
MW: 66.5 kDa

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 RC220440



Western blot validation of overexpression lysate (Cat# [LY421569]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220440 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).