

Product datasheet for **RC220251**

Huntingtin Associated Protein 1 (HAP1) (NM_177977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Huntingtin Associated Protein 1 (HAP1) (NM_177977) 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:

>RC220251 representing NM_177977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCGCCCGAAGAGGTTGGGCCGTGCTGCGCGGGAGCCGGCTCGGACCCGGGGACCCAGCAGCACTCA
 CCTGTGCACCTTCGCCCTCAGCCAGTCCCCTCGGAGCCCTCTGCGCAGCCGCAGGCACGGGGCACTGG
 ACAGAGAGTAGGATCCCCGAGCCCTCTGGATCCAGTTCCTCTCGGAAGCCCGACCGGAGCTCGCCCG
 GCCTCGGAGGCTGGAGCCAAGGCAGGAGCCCGCGCCCGTCCGCATTCTCGGCCATCCAAGGGGATGTCC
 GGTCTATGCCGACAATTCGACGCGCCGTGGACCCGCTTCGATTCCAAGGGCCGTTGGTTCCCGGGC
 CACTGGCCGGGGACTGGAAGGCAGCGGGCATCTGGAAGACGCCAGCCCTACGTTGGCCGGCGACCC
 GGGGTGTCGGCCCTGAGCGCGCCCTTTATTCGGGAGCTGGAGGAAGCACTGTCTAACCTACCTC
 CGCCAGTCAAAAAGATCACCCAGGAAGACGTCAAAGTGTATATTTGCTGGAGGAGCTTCTCCACC
 TGCTGGGAGAGCGTTACCTATGGGATGGTCTGCAGAGAGAGGGACCTGAACACTGCAGCTCGCATC
 GGCAGTCCCTGGTGAACAGAACAGTGTGGTGGATGGAGGAGAAGCAAGCTGGAAGCCCTGCTGGGCT
 CAGCCAAGGAGGAGATTTATACCTCAGACACCAGGTGAACTTGCGGGATGAGCTCCTCCAGCTCTACT
 AGATTCTGATGAGGAGGATGAGGATGAAGAAGAGGAGGAGGAAGAAAAGGAGGCAGAAGAGGAACAGGAA
 GAAGAAGAAGCAGAGGAAGACCTGCAGTGTGCTCATCCCTGTGATGCCCTAAGCTGATTTTCGAGGAGG
 CATTGCTGCACCAAGCACCCTGCCACAGCTGGAAGCCTTGCAAGGAGAAGCTGAGGCTGCTGGAGGAGGA
 GAATCATCAGCTGAGAGAAGAGGCTCTCAACTCGACACTTTGAGGATGAGGAACAGATGCTCATTCTG
 GAGTGTGGAGCAGTTTTTCGGAGGCCAGCCAACAGATGGCTGAGCTGTGGAGGTGCTGGTGTCTCAGGC
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 CAGCTCCAGGAAGAGGAGACTTCTCTGGTTTCCAGGAGACGCTGGCTGAGGAGCTCAGAAGCTCTCTAA
 GGAGGATGATCTCAGACCCTGTGATTTTATGGAGAGGAATTATGAGATGCCAGAGGGGACACATCCAG
 CCTAAGGTATGATTTTCGCTACAGTGGAGTGCAGAGCAGGTGCGGGGGTTTGGAGCTGAGGAAGGGTTG
 ATGCTGGCAGCGGATATCATGCGGGGGGAAGATTTACGCCTGCGGAGGAGTTCTGCCCCAGGAGGAGC
 TGGGGGCTGCCAAGAAGGTGCCGCTGAGGAAGGGGTGATGGAAGAGGCAGAGCTGGTGTGAGGAGAGC
 CGAGGGCTGGGAGGAGTGAAGTGGAGCTGGATGAGGCAACCGGATGAACGTGGTACATCAGCCCTG
 GAGGCCAGCGGCTTGGGCCCTTACACCTGGACATGAATTATGCTCTCCAGCAGCTGGCCAACTGGCAAG
 ATGCCATTACAGGCGGAGCTGAGGTGGAAGATGCTCCAGAAAGGTGAGTGCSCCCACGGGCCCTCC
 TGCCGCCAGCCGACAAGCTGCAGATCGTCGTGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC220251 representing NM_177977
 Red=Cloning site Green=Tags(s)

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPESAPQARGTQQRVGSRATSGSQFLSEARTGARP
 ASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGPFGSRATGRGTGKAAGIWKTPAAYVGRRP
 GVSGPERAAFIREEALCPNLPPPVKKITQEDVKVMLYLLEELLPPVWESVTYGMVLQRRDLNTAARI
 GQSLVKQNSVLEENSKLEALLGSAKEEILYLHRHQVNLRDELLQLYSDSDEEDEDEEEEEKEAEEEQE
 EEEAEEDLQCAHPCDAPKLI SQEALLHQHHCPLLEALQEKLRLLEENHQLREEASQLDLEDEEQMLIL
 ECVEQFSEASQMAELSEVLVLRLENYERQQQEVARLQAQVLKLRQRCRMYGAETEKLQKQLASEKEIQM
 QLQEEETLPGFQETLAEELRTSLRRMISDPVYFMERNYEMPRGDTSSLRYDFRYSEDREQVRGFEAEEGL
 MLAADIMRGEDFTPAAEFVPEELGAAKKVPAEEGVMEEAELVSEETEGWEEVELELDEATRMMNVVTSAL
 EASGLGPSHLDMMNYVLQQLANWQDAHYRRQLRWKMLQKGECPHGALPAASRTSCRSSCR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8070_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177977

ORF Size: 1857 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_177977.3](#)

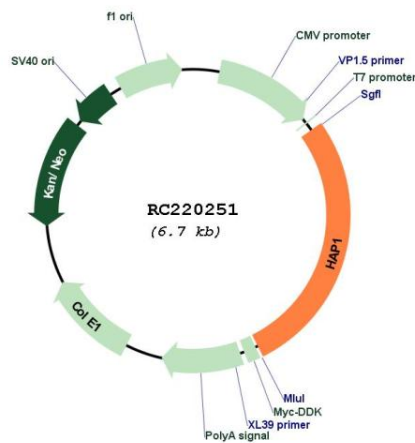
RefSeq Size: 3981 bp

RefSeq ORF: 1860 bp

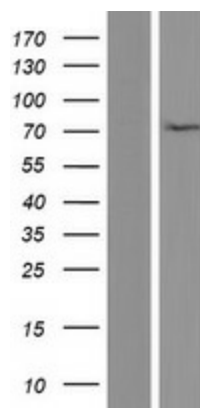
Locus ID: 9001
UniProt ID: [P54257](#)
Cytogenetics: 17q21.2
Protein Pathways: Huntington's disease
MW: 69.5 kDa

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 RC220251



Western blot validation of overexpression lysate (Cat# [LY406069]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220251 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).