

## Product datasheet for **RG220305**

### 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:	TurboGFP
Symbol:	Huntingtin Associated Protein 1
Synonyms:	HAP2; hHLP1; HIP5; HLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG220305 representing NM\_001079870  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCCCGAAGAGGTTGGGCCGGTGTGCGCGGGGAGCCGGCTCGGACCCGGGGACCCAGCAGCACTCA  
 CCTGTGCACCTTCGCCCTCAGCCAGTCCCGCTCCGGAGCCCTCTGCGCAGCCGCAGGCACGGGGCACTGG  
 ACAGAGAGTAGGATCCCAGCCACCTCTGGATCCAGTTCCTCTCGGAAGCCCGACCCGGAGCTCGCCCCG  
 GCCTCGGAGGCTGGAGCCAAGGCAGGAGCCCGCGCCCGTCCGCATTCTCGGCCATCCAAGGGGATGTCC  
 GGTCTATGCCGACAATTCGGACGCGCCGTGGACCCGCTTCGTATTCCAAGGGCCGTTTGGTTCCCGGGC  
 CACTGGCCGGGGACTGGAAGGCAGCGGGCATCTGGAAGACGCCAGCCGCTACGTTGGCCGGCGACCC  
 GGGGTGTCGGCCCTGAGCGCGCCGCTTTATTCGGGAGCTGGAGGAAGCACTGTGTCCTAACCTACCTC  
 CGCCAGTCAAAAAGATCACCCAGGAAGACGTCAAAGTGATGTTATATTTGCTGGAGGAGGTGTACTGC  
 CTTCTGATCCAGCTTCTCCACCTGTCTGGGAGAGCGTTACCTATGGGATGGTCTGCAGAGAGAGAGG  
 GACCTGAACACTGCAGCTCGCATCGGCCAGTCCCTGGTGAACAGAACAGTGTTTGGATGGAGGAGAACA  
 GCAAGCTGGAAGCCCTGCTGGGCTCAGCCAAGGAGGAGATTTTATACCTCAGACACCAGGTGAACCTGCG  
 GGATGAGCTCCTCCAGCTCTACTCAGATTCTGATGAGGAGGATGAGGATGAAGAAGAGGAGGAGGAAGAA  
 AAGGAGGCAGAAGAGGAACAGGAAGAAGAAGAAGCAGAGGAAGACCTGCAGTGTGCTCATCCCTGTGATG  
 CCCCTAAGCTGATTTGCGAGGAGGCATTGCTGCACCAGCACCCTGCCACAGCTGGAAGCCTTGCAGGA  
 GAAGCTGAGGCTGCTGGAGGAGGAGAATCATCAGCTGAGAGAAGAGGCCCTCAACTCGACACTCTTGAG  
 GATGAGGAACAGATGCTCATTCTGGAGTGTGTGGAGCAGTTTTCGGAGGCCAGCCAACAGATGGCTGAGC  
 TGTCGGAGGTGCTGGTGTGCTCAGGCTGGAACACTATGAACGCAGCAGCAGGAGGTGCTCGCTGCAGGC  
 CCAGGTGCTGAAGCTGCAGCAGCCGCTGCCGGATGGAGACTCTTCCTGGTTCCAGGAGACGCTGGCTGAG  
 GAGCTCAGAACGCTCTAAGGAGGATGATCTCAGACCCTGTGATTTTATGGAGGGAATTATGAGATGC  
 CCAGAGGGGACACATCCAGCCTAAGGTATGATTTTCGCTACAGTGAGGATCGAGAGCAGGTGCGGGGGTT  
 TGAGGCTGAGGAAGGGTTGATGCTGGCAGCGGATATCATGCGGGGGGAAGATTTACGCCTGCGGAGGAG  
 TTCGTGCCCCAGGAGGAGCTGGGGGCTGCCAAGAAGGTGCCGGCTGAGGAAGGGGTGATGGAAGAGGCAG  
 AGCTGGTGTGAGAGGAGCCGAGGGCTGGGAGGAGGTGGAAGTGGAGCTGGATGAGGCAACGCGGATGAA  
 CGTGGTGACATCAGCCCTGGAGGCCAGCGGCTTGGCCCTTACACCTGGACATGAATTATGTCCTCCAG  
 CAGCTGGCCAACGGCAAGATGCCATTACAGGCGGCAGCTGAGGTGGAAGATGCTCCAGAAAGGTGAGT  
 GCCCCACGGGGCCCTCCCTGCCCCAGCCGGACAAGCTGCAGATCGTCTGCGCA

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG220305 representing NM\_001079870  
 Red=Cloning site Green=Tags(s)

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPESAQPQARGTQQRVGSRATSGSQFLSEARTGARP  
 ASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGPFGSRATGRGTGKAAGIWKTPAAAYVGRRP  
 GVSPPERAAFIREEALCPNLPPPVKKITQEDVKVMLYLLEEVCTAFLIQLLPPVWESVTYGMVLQRER  
 DLNNTAARIGQSLVKQNSVLMENSKLEALLGSAKEEILYLRHQVNLRDPELLQLYSDSDEEDEDEEEEEEE  
 KEAEEEEQEEEEAEEDLQCAHPCDAPKLSIQEALLHQHCPQLEALQEKLRLLEENHQLREEASQLDLE  
 DEEQMLILECVEQFSEASQMAELSEVLVLRLENYERQQQEVARLQAQVLKQLQRCRMETLPGFQETLAE  
 ELRTSLRRMISDPVYFMERNYEMPRGDTSSLRYDFRYSEDREQVRGFEAEGLMLAADIMRGEDFTPAEE  
 FVPQEELGAAKKVPAEEGYMEEAELVSEETEGWEEVELELDEATRMNVVTSALEASGLPASHLDMNYVLQ  
 QLANWQDAHYRRQLRWKMLQKGECPHGALPAASRTSCRSSCR

**TRTRPLE - GFP Tag - V**

**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

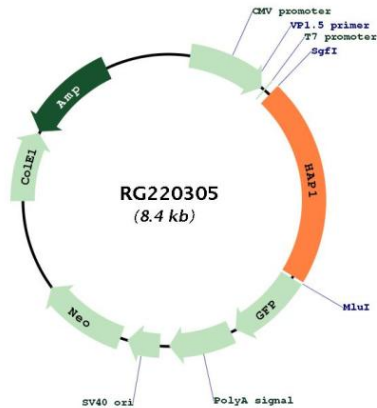
**UniProt ID:** [P54257](#)

**Cytogenetics:** 17q21.2

**Protein Pathways:** Huntington's disease

**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 RG220305