

Product datasheet for **RN200388**

Hap1 (NM_177982) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hap1 (NM_177982) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hap1
Synonyms:	HAP1-A; HAP1-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200388 representing NM_177982
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCGAAGGACCAGGTGCAGAGCAGTCCCGGGACGGGACGGGGTCCGGGGACCCAGCAACAGGCA
 CCCCCAGACCCAGCCTGCAGCGGATCCCCTCCGGAGCCCTCGGCAGAGCCAAACCTGCTCCGGCGCA
 GGGAAACGGGTCCGGACAGAAATCAGGATCCCGAACCAAGACAGGAGGAAGCTTTTGTAGGTCCAGGATC
 CGTGGCGACTCGGACGCACCATGGACCCGCTACATATTCCAGGGGCTTACGGTCCCCGGGCTACTGGCC
 TGGGCACTGGAAGGGCTGAGGGAATCTGGAAGACGCCAGCCGCTACATCGGCCGAAGGCCCGGCTGTC
 CGGCCCTGAGCGCGCGGCTTTATTTCGAGAGCTGCAGGAAGCGCTGTGTCTAATCCACTGCCAGGAAG
 AAGATCACCGAAGATGATATCAAAGTGTGTTGATTTGCTGGAAGAGAAAGAACGGGACCTGAACACAG
 CCGCTCGCATCGCCAGTCCCTGGTGAACAGAATAGTGTCTGATGGAGGAGAATAACAAGCTGGAAC
 CATGCTGGGCTCAGCCAGAGAGGAGATTTACATCTCCGAAGCAGGTGAACCTGCGAGATGATCTCCTT
 CAGCTCTACTCGGACTCCGATGACGATGAGGAGGATGAAGAGGATGAGGAAGAGGAAGAGGGAGAAGAGG
 AGGAACGAGAAGGACAGAGGGACCAAGATCAGCAGCACGACCATCCCTATGGTGCSCCAAGCCGCCCC
 TAAGGCTGAGACGCTGCACCACTGCCACAGCTGGAAGCCCTGAAGCAGAAGCTGAAACTGCTGGAAGAA
 GAGAACGACCATCTTCGAGAGGAGGCTCCACCTTGACAACCTGGAAGCAAAGAACAGATGCTCATTTC
 TGGAGTGTGTGGAACAGTTTTCTGAAGCCAGCCAGCAGATGGCAGAGCTATCCGAGGTGTTGGTGTGAG
 GCTGGAAGGCTATGAGAGGCAGCAGAAGGAGATCACTCAGCTGCAGGCCGAGATCACCAAGCTACAACAG
 CGTTGTCACTTATGGGGCCAGACGGAGAACTGCAGCAGCAGCTGGCCTCAGAGAAGGGAGTCCACC
 CAGAGAGCCTGCGAGCTGGTCCCACATGCAGGATTATGGAAGCAGGCCCTCGTGAACGCCAGGAGGATGG
 GAAGAGCCATCGTCAGCGTTCTCAATGCCTGCAGGTTCTGTCACCCACTATGGATACAGTGTGCCTCTG
 GATGCACTTCCAAGTTTCCAGAGACACTGGCGGAGGAGCTCCGGACATCCCTGAGGAAGTTCATCACTG
 ACCCTGCGTATTTTCATGGAGAGATGTGACACTCGCTGCAGAGAGGAACGAAAGAAGGAGCAGGGGACAAT
 GCCACCCACCAGGTGCAAGATCTCAAGCCGCTGAAGATTTTCGAGGCTCCAGAGGAGCTGGTTCCTGAG
 GAGGAGCTGGGGCCATAGAAGAGGTGGGGACAGCTGAGGATGGGCCGCGCAGAAGAGACAGAGCAGGCAT
 CTGAGGAGACCGAGCCCTGGGAGGAGTGAACCCGAGGTGGACGAGGCCACAAGGATGAATGTGGTGGT
 CTCTGCCCTGGAGCCAGCGCCTGGGCCCTTACACCTGGACATGAAGTATGTCCTCCAGCAACTGTCC
 AACTGGCAGGACGCCATTCTAAGCGGCAGCAGAAGCAGAAGGTGGTCCCGAAAGACTCCCAGCCCCGC
 AGCAGCAAACAACATGGGGGGCGGATCGTGGAGCAGCAGCCATAGTCCGACCCAGGACTCTCAGAG
 GCTGGAGGAGGACAGGGCCACTCACTCTCCAGTGCCAGGGAGGAAGAGGGGCTTCTGGGGCCACC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_177982
- Insert Size:** 1890 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_177982.1](#), [NP_817091.1](#)

RefSeq Size: 3126 bp

RefSeq ORF: 1890 bp

Locus ID: 29430

UniProt ID: [P54256](#)

Cytogenetics: 10q31

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 is homologous to the human huntingtin-associated protein 1. The human protein 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. Two transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) lacks a segment in the 3' coding region that causes a frameshift, and lacks a segment in the 3' UTR, compared to variant 1. The encoded protein (isoform B) is longer and has a distinct C-terminus, compared to isoform A.