

Product datasheet for **RR200388**

Hap1 (NM_177982) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hap1 (NM_177982) Rat Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RR200388 representing NM_177982
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCCCGAAGGACCAGGTGCAGAGCAGTGCCGGGGACGGGACGGGGTGGGGGACCCAGCAACAGGCA
 CCCCCACGACCCAGCCTGCAGCGGATCCCCTCGGAGCCCTCGGCAGAGCCAAACCTGCTCCGGCGCA
 GGAACCGGGTCCGGACAGAAATCAGGATCCCGAACCAAGACAGGAGGAAGCTTTTGTAGGTCCAGGATC
 CGTGGCGACTCGGACGCACCATGGACCCGCTACATATTCCAGGGGCTTACGGTCCCGGGCTACTGGCC
 TGGGCACTGGAAGGGCTGAGGGAATCTGGAAGACGCCAGCCGCTACATCGGCCGAAGGCCCGCGTGT
 CGGCCCTGAGCGCGCGGCTTTATTTCGAGAGCTGCAGGAAGCGCTGTGTCTAATCCACTGCCAGGAAG
 AAGATCACCGAAGATGATATCAAAGTGTGTATTGCTGGAAGAGAAAGAACGGGACCTGAACACAG
 CCGCTCGCATCGCCAGTCCCTGGTGAACAGAATAGTGTCTGATGGAGGAGAATAACAAGCTGGAAC
 CATGCTGGGCTCAGCCAGAGAGGAGATTTACATCTCCGAAGCAGGTGAACCTGCGAGATGATCTCCTT
 CAGCTCTACTCGGACTCCGATGACGATGAGGAGGATGAAGAGGATGAGGAAGAGGAAGAGGGAGAAGAGG
 AGGAACGAGAAGGACAGAGGGACCAAGATCAGCAGCACGACCATCCCTATGGTGCSCCAAGCCGCCCC
 TAAGGCTGAGACGCTGCACCACTGCCACAGCTGGAAGCCCTGAAGCAGAAGCTGAAACTGCTGGAAGAA
 GAGAACGACCATCTTCGAGAGGAGGCTCCACCTTGACAACCTGGAAGCAAAGAACAGATGCTCATT
 TGGAGTGTGTGGAACAGTTTTCTGAAGCCAGCCAGCAGATGGCAGAGCTATCCGAGGTGTTGGTGTGAG
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 CGTTGTCACTTATGGGGCCAGACGGAGAACTGCAGCAGCAGCTGGCCTCAGAGAAGGGAGTCCACC
 CAGAGAGCCTCGAGCTGGCTCCACATGCAGGATTATGGAAGCAGGCCCTCGTGAACGCCAGGAGGATGG
 GAAGAGCCATCGTCAGCGTTCCTCAATGCCTGCAGGTTCTGTACCCACTATGGATACAGTGTGCCTCTG
 GATGCACTTCCAAGTTTCCAGAGACACTGGCGGAGGAGCTCCGGACATCCCTGAGGAAGTTCATCACTG
 ACCCTGCGTATTTTCATGGAGAGATGTGACACTCGCTGCAGAGAGGAACGAAAGAAGGAGCAGGGGACAAT
 GCCACCCACCAGGTGCAAGATCTCAAGCCGCTGAAGATTTTCGAGGCTCCAGAGGAGCTGGTTCCTGAG
 GAGGAGCTGGGGCCATAGAAGAGGTGGGGACAGCTGAGGATGGGCCGCGAGAAGAGACAGAGCAGGCAT
 CTGAGGAGACCGAGCCCTGGGAGGAGTGAACCGGAGGTGGACGAGGCCACAAGGATGAATGTGGTGGT
 CTCTGCCCTGGAGCCAGCGCCTGGGCCCTTACACCTGGACATGAAGTATGCTCTCCAGCAACTGTCC
 AACTGGCAGGACGCCATTCTAAGCGGCAGCAGAAGCAGAAGGTGGTCCCGAAAGACTCCCAGCCCCGC
 AGCAGCAAACAAACATGGGGGGCGGATCGTGGAGCAGCAGCCATAGTCCGACCCAGGACTCTCAGAG
 GCTGGAGGAGGACAGGGCCACTACTCTCCAGTGCCAGGGAGGAAGAGGGGCTTCTGGGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200388 representing NM_177982
 Red=Cloning site Green=Tags(s)

MRPKDQVQSSAGDGTGSGDPATGPTTQPAADPAPEPSAEPKAPAPAQGTGSGQKSGSRKTGGSFCSRRI
 RGDSDAPWTRYIFQGPYGPRTGLGTGRAEGIWKTPAAYIGRRPGVSGPERAAFIRELQEALCPNPLPRK
 KITEDDIKVMLYLLEEKERDLNLAARIGQSLVKQNSVLMEENKLETMLGSAREEILHLRKQVNLRDDLL
 QLYSDSDDEEDEDEEEEEEEEEEREGQRDQDQHDHPYGAAPPPKAETLHHCPQLEALKQKLLLEE
 ENDHLREEASHLDNLEDKEQMLILECVEQFSEASQMAELSEVLVLRLEGYERQQKEITQLQAEITKLQQ
 RCQSYGAQTEKLQQQLASEKGVHPESLRAGSHMQDYGSRPRERQEDGKSHRQRSSMPAGSVTHYGYVPL
 DALPSFPETLAEELRTSLRKFITDPAYFMERCDTRCREERKKEQGTMPPPPVDLKPPEDFEAPPELVPE
 EELGAIEEVGTAEDGPAEETEQAASETEAWEEVEPEVDEATRMNVVVSALASGLGPHLDMKYVLQQLS
 NWQDAHSKRQKQKVVPKDSPAQQQTNMGGGIVEQQPIVPTQDSQRLEEDRATHSPSAREEEGPSGAT

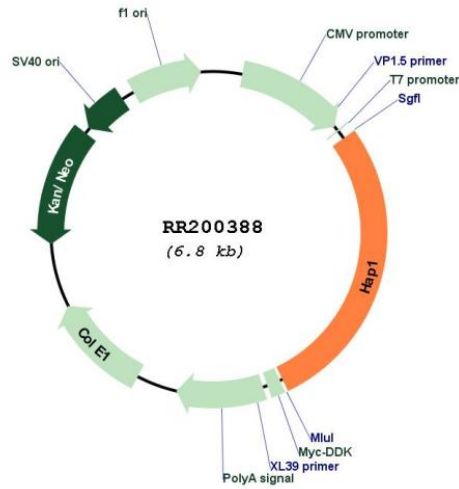
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177982

ORF Size: 1887 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:	<ol style="list-style-type: none"> 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_177982.2
RefSeq Size:	3184 bp
RefSeq ORF:	1890 bp
Locus ID:	29430
UniProt ID:	P54256
Cytogenetics:	10q31
MW:	70.2 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 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]