

Product datasheet for **MR222267**

Hap1 (NM_177981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hap1 (NM_177981) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hap1
Synonyms:	HAP; HAP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222267 representing NM_177981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCCCCAAAGAGCAGGTGCAGAGCGGTGCGGGAGACGGGACAGGGTTCGGGGACCCAGCAGCAGGCCA
 CCCCCACGACCCAGCCTGCAGTTGGTCCCCTCCGGAGCCCTCGGCGGAGCCAAACCTGCCTCCAGCGCA
 GGAACCGGGTCCGGACAAAAATCAGGATCCCGAACCAAGACAGGAAGCTTTTGTGCGTCCATGATCATT
 GGTGATTCGGACGCACCATGGACCCGCTACGTATTCCAGGGCCCTACGGTCCCCGGGCCACTGGCCTGG
 GCACTGGAAGGCGGAGGAATCTGGAAGACACCAGCCGCTACATCGGCCGGAGGCCGGCGTGTCCGG
 CCCTGAGCGTGCGGCTTTATTCGAGAGCTGCAGGAAGCGTTGTGTCTAATCCACCACCACGAAGAAG
 ATCACCGAAGATGATGTCAAAGTGTGTTGATTTGCTGGAAGAGAAAGAACGGGACCTGAACACAGCCG
 CCCGGATCGCCAGTCCCTGGTAAACAGAACAGTGTCTTGATGGAGGAGAATAAAGCTGGAACCAT
 GCTGGGCTCAGCCAGGGAGGAGATTTACATCTCCGGAAGCAGGTGAACCTGCGAGATGACCTTCTTCAG
 CTCTACTCAGACTCTGATGACGATGATGATGAGGAAGACGAGGAAGACGGAAGAGGGCGAAGAGGAGG
 AACGAGAAGGACAGAGGGATCAAGACCAGCAGCAGCACCACCCCTATGGTGCCCCAAGCCACACCCATA
 GGCTGAGACAGCGCACCGCTGCCACAGCTGGAACCCCTGCAGCAGAAGCTCAGGCTTCTGGAGGAAGAG
 AACGACCACCTGCGAGAGGAGGCCCTCCCACCTTGACAACCTGGAGGACGAAGAGCAGATGCTCATTCTGG
 AATGTGTGGAGCAGTTCTCTGAAGCCAGCCAGCAGATGGCAGAGCTATCGGAAGTGTGGTGTGAGGCT
 GGAAGGCTATGAGAGGCAGCAGAAAGAGATCACTCAGCTGCAGGCCGAGATCACCAAGCTACAACAGCGT
 TGTCAGTCTTATGGGGCCAGACAGAGAAACTGCAGCAGATGCTGGCCTCAGAGAAGGGGATCCACTCGG
 AGAGCCTGCGAGCTGGCTCTACATGCAGGATTATGGGAGCAGGCCCTCGTGACCCGAGGAGGATGGGAA
 GAGTCATCGCCAGCGCTCCTCCATGCCCGCAGGCTCTGTCAACCACTATGGATAACAGTGTGCTCTGGAT
 GCACTTCCAAGTTTCCCAGAGACTGGCTGAGGAGCTCCGAACATCTCTGAGGAAGTTCATCACTGACC
 CTGCGTATTTTATGGAGAGCAGTACACTCACTGCAGGGAGGGCGGAAGAAGGAGCAGAGGGCGATGCC
 ACCCCCACCGCTCAAGATCTCAAGCCACCTGAAGATTTTGGGCTCCAGAGGAGTTGGTCTCAGGAG
 GAGCTGGGGGCCATCGAAGAGGTGGGACAGCTGAGGATGGGCAGGCAGAAAGAGAACCAGCAGGCGTCTG
 AGGAGACCAGGCCTGGGAGGAGGTGGAACCGGAGGTGGACGAGACCACAAGGATGAATGTGGTGGTCTC
 CGCCCTGGAGGCCAGTGGCTGGGCCCTCCCACCTGGACATGAAGTATGCTCTCCAGCAACTGTCCAAC
 TGGCAGGACGCCACTCTAAGCGCAGCAGAAGCAGAAGGTGGTCCAAAAGACTCCCCAACCCCGCAGC
 AGCAAACAACATGGGGGGCGGGATCCTGGAGCAGCAGCCAGAGTGCCGACCCAGGACTCTCAGAGGCT
 GGAGGAGGACAGGGCCACTCACTCTCCAGTGCCAGGGAGGAAGAGGGGCCCTTCTGGGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222267 representing NM_177981
 Red=Cloning site Green=Tags(s)

MRPKEQVQSGAGDGTGSGDPAAGTPPTQPAVGPAPEPSAEPKPAPAQGTGSGQKSGSRTKTGSGFCRSMII
 GDSDAPWTRYVFGPYGPRATGLTGKAEGIWKTPAAYIGRRPGVSGPERAAFIRELQEALCPNPPPTKK
 ITEDDVKVMLYLLEEKERDLNNTAARIGQSLVKQNSVLEENNKLETMLGSAREEILHLRKQVNLRDDLLQ
 LYSDDDDDEEEDDEEEDDEEEREGERDQDQHDHPYGAHPKPKAETAHRCPLQETLQQKLRLLEEE
 NDHLREEASHLDNLEDEEQMLILECVEQFSEASQMAELSEVLVLRLEGYERQQKEITLQAEITKLQQR
 CQSYGAQTEKLQMLASEKGIHSESLRAGSYMQDYGSRPRDRQEDGKSHRQRSSMPAGSVTHYGYSVPLD
 ALPSFPETLAEELRTSLRKFITDPAYFMERRDTHCREGRKKEQRAMPPPAQDLKPPEDFEAPEELVPEE
 ELGAIIEEVGTAEDGQAEENEQASEETEAWEEVEPEVDETTRMNVVVSALASGLGPSHLDMKYVLQQLSN
 WQDAHSKRQKQKVVPKDSPTPQQQTNMGGGILEQQPRVPTQDSQRLEEDRATHSPSAREEEGPGS

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177981

ORF Size: 1884 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_177981.2](#), [NP_817090.1](#)

RefSeq Size: 3225 bp

RefSeq ORF: 1887 bp

Locus ID: 15114

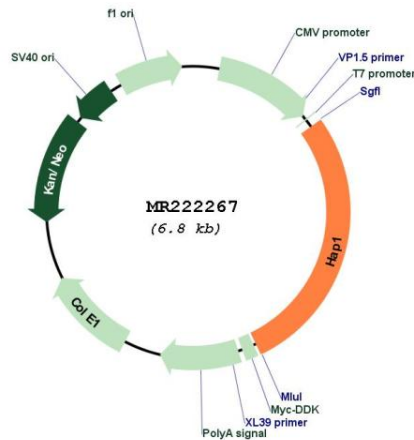
UniProt ID: [O35668](#)

Cytogenetics: 11 D

MW: 70.6 kDa

Gene Summary: The protein encoded by this gene was first identified as a neuronal protein that binds the HD protein huntingtin. The protein also interacts with kinesin light chain, 14-3-3 proteins, and Abelson helper integration site 1 protein. The protein is involved in intracellular trafficking of vesicles and organelles, and lack of the protein results in neuronal death resembling the hypothalamic degeneration that occurs in Huntington's disease. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2009]

Product images:



Circular map for MR222267