

Product datasheet for **MG222267**

Hap1 (NM_177981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hap1 (NM_177981) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hap1
Synonyms:	HAP; HAP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222267 representing NM_177981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCGCCCGAAAGAGCAGGTGCAGAGCGGTGCGGGAGACGGGACAGGGTTCGGGGACCCAGCAGCAGGCCA
 CCCCCAGACCCAGCCTGCAGTTGGTCCCCTCCGGAGCCCTCGGCGAGCCCAAACCTGCTCCAGCGCA
 GGGAAACGGGTCCGGACAAAAATCAGGATCCCGAACCAAGACAGGAAGCTTTTGTGCGTCCATGATCATT
 GGTGATTCGGACGCACCATGGACCCGCTACGTATTCCAGGGGCCCTACGGTCCCCGGGCCACTGGCCTGG
 GCACTGGAAGGCGGAGGAATCTGGAAGACACCAGCCGCTACATCGGCCGGAGGCCGGCGTGTCCGG
 CCCTGAGCGTGCAGCGTTTATTCGAGAGCTGCAGGAAGCGTTGTGTCTAATCCACCACCACGAAGAAG
 ATCACCGAAGATGATGTCAAAGTGTGTTGATTTGCTGGAAGAGAAAGAACGGGACCTGAACACAGCCG
 CCCGGATCGCCAGTCCCTGGTAAACAGAACAGTGTCTTGATGGAGGAGAATAAAGCTGGAACCAT
 GCTGGGCTCAGCCAGGGAGGAGATTTTACATCTCCGGAAGCAGGTGAACCTGCGAGATGACCTTCTTCAG
 CTCTACTCAGACTCTGATGACGATGATGATGAGGAAGACGAGGAAGACGGAAGAGGGCGAAGAGGAGG
 AACGAGAAGGACAGAGGGATCAAGACCAGCAGCAGCACCCCTATGGTGCCCCAAGCCACACCCATAA
 GGCTGAGACAGCGCACCGCTGCCACAGCTGGAACCCCTGCAGCAGAAGCTCAGGCTTCTGGAGGAAGAG
 AACGACCACCTGCGAGAGGAGGCCCTCCCACCTTGACAACCTGGAGGACGAAGAGCAGATGCTCATTCTGG
 AATGTGTGGAGCAGTTCTCTGAAGCCAGCCAGCAGATGGCAGAGCTATCGGAAGTGTGGTGTGAGGCT
 GGAAGGCTATGAGAGGCAGCAGAAAGAGATCACTCAGCTGCAGGCCGAGATCACCAAGCTACAACAGCGT
 TGTCACTTATGGGGCCAGACAGAGAAACTGCAGCAGATGCTGGCCTCAGAGAAGGGGATCCACTCGG
 AGAGCCTGCGAGCTGGCTCTACATGCAGGATTATGGGAGCAGGCCCTCGTGACCGCCAGGAGGATGGAA
 GAGTCATCGCCAGCGCTCCTCCATGCCCGCAGGCTCTGTCAACCACTATGGATACAGTGTGCCTCTGGAT
 GCACCTTCAAGTTTCCCAGAGACTGGCTGAGGAGCTCCGAACATCTCTGAGGAAGTTCATCACTGACC
 CTGCGTATTTTATGGAGAGCAGTGCACACTCACTGCAGGGAGGGCGGAAGAAGGAGCAGAGGGCGATGCC
 ACCCCCACCGGCTCAAGATCTCAAGCCACCTGAAGATTTTGGGCTCCAGAGGAGTTGGTCTCAGGAG
 GAGCTGGGGGCCATCGAAGAGGTGGGACAGCTGAGGATGGGCAGGCAGAAGAGAACGAGCAGGCGTCTG
 AGGAGACCAGGCTGGGAGGAGGTGGAACCGGAGGTGGACGAGACCACAAGGATGAATGTGGTGGTCTC
 CGCCCTGGAGGCCAGTGGCTGGGCCCTCCCACCTGGACATGAAGTATGCTCTCCAGCAACTGTCCAAC
 TGGCAGGACGCCACTCTAAGCGCAGCAGAAGCAGAAGTGGTCCAAAAGACTCCCCAACCCCGCAGC
 AGCAAACAACATGGGGGGCGGGATCCTGGAGCAGCAGCCAGAGTGCCGACCCAGGACTCTCAGAGGCT
 GGAGGAGGACAGGGCCACTCACTCTCCAGTGCCAGGGAGGAAGAGGGGCCCTTCTGGGGCCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222267 representing NM_177981
 Red=Cloning site Green=Tags(s)

MRPKEVQVQSGAGDGTGSGDPAAGTPTTQPAVGPAPEPSAEPKPAPAQGTGSGQKSGSRTKTGSFCRSMII
 GDSDAPWTRYVFGQPYGPRATGLGTGKAEGIWKTPAAYIGRRPGVSGPERAAFIRELQEALCPNPPPTKK
 ITEDDVKVMLYLLEEKERDLNLAARIGQSLVKQNSVLMEENKLETMLGSAREEILHLRKQVNLRDDLLQ
 LYSDSDDDDEEDEDEEEEGEEREQQRDQDQHDHPYGAPKPKAETAHRCPQLETLLQKLRLLEEE
 NDHLREEASHLDNLEDEEQMLILECVEQFSEASQQMAELSEVLVLRLEGYERQQKEITQLQAEITKLQQR
 CQSYGAQTEKLQQLASEKGIHSESLRAGSYMQDYGSRRPRDRQEDGKSHRQRSSMPAGSVTHYGYSVPLD
 ALPSFPETLAEELRTSLRKFITDPAYFMERRDTHCREGRKKEQRAMPPPAQDLKPPEDFEAPEELVPEE
 ELGAIIEVGTAEEDGQAEENEQASEETEAWEEVEPEVDETRMNVVVSALASGLGPSHLDMKYVLLQQLSN
 WQDAHSKRQKQKQVVPKDSPTPQQQTNMGGGILEQQPRVPTQDSQRLEEDRATHSPSAREEEGPGSAT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_177981.2 , NP_817090.1
RefSeq Size:	3225 bp
RefSeq ORF:	1887 bp
Locus ID:	15114
UniProt ID:	O35668
Cytogenetics:	11 D
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]