

Product datasheet for **RG220251**

Huntingtin Associated Protein 1 (HAP1) (NM_177977) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Huntingtin Associated Protein 1 (HAP1) (NM_177977) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HAP1
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:

>RG220251 representing NM_177977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCCCGAAGAGGTTGGGCCGTGCTGCGCGGGAGCCGGCTCGGACCCGGGGACCCAGCAGCACTCA
 CCTGTGCACCTTCGCCCTCAGCCAGTCCCCTCCGGAGCCCTCTGCGCAGCCGCAGGCACGGGGCACTGG
 ACAGAGAGTAGGATCCCCGAGCCACTCTGGATCCAGTTCCTCTCGGAAGCCCGCACCGGAGCTCGCCCG
 GCCTCGGAGGCTGGAGCCAAGGCAGGAGCCCGCGCCCGTCCGCATTCTCGGCCATCCAAGGGGATGTCC
 GGTCTATGCCGACAATTCGACGCGCCGTGGACCCGCTTCGATTCCAAGGGCCGTTTGGTTCCCGGGC
 CACTGGCCGGGGACTGGAAAGGCAGCGGGCATCTGGAAGACGCCAGCCCTACGTTGGCCGGCGACCC
 GGGGTGTCGGCCCTGAGCGCGCCGCTTTATTCGGGAGCTGGAGGAAGCACTGTGCTAACCTACCTC
 CGCCAGTCAAAAAGATCACCCAGGAAGACGTCAAAGTGATGTTATATTTGCTGGAGGAGCTTCTCCACC
 TGCTCGGAGAGCGTTACCTATGGGATGGTCTGCAGAGAGAGGGACCTGAACACTGCAGCTCGCATC
 GGCAGTCCCTGGTGAACAGAACAGTGTGTTGATGGAGGAGAAGCAAGCTGGAAGCCCTGCTGGGCT
 CAGCCAAGGAGGAGATTTTATACCTCAGACACCAGGTGAACTTGCGGGATGAGCTCCTCCAGCTCTACTC
 AGATTCTGATGAGGAGGATGAGGATGAAGAAGAGGAGGAGGAAGAAAAGGAGGCAGAAGAGGAACAGGAA
 GAAGAAGAAGCAGAGGAAGACCTGCAGTGTGCTCATCCCTGTGATGCCCTAAGCTGATTTTCGAGGAGG
 CATTGCTGCACACGACCACTGCCACAGCTGGAAGCCTTGCAAGGAGAAGCTGAGGCTGCTGGAGGAGGA
 GAATCATCAGCTGAGAGAAGAGGCTCTCAACTCGACACTCTTGAGGATGAGGAACAGATGCTCATTCTG
 GAGTGTGGAGCAGTTTTTCGGAGGCCAGCCAACAGATGGCTGAGCTGTCGGAGGTGCTGGTGCCTCAGGC
 TGGAAAACATGAACGGCAGCAGCAGGAGGTGCTCGGCTGCAGGCCAGGTGCTGAAGCTGCAGCAGCG
 CTGCCGGATGTATGGGGCTGAGACTGAAAAGTTGCAGAAGCAGCTGGCTTCGGAGAAGGAAATCCAGATG
 CAGCTCCAGGAAGAGGAGACTCTTCTGGTTTCCAGGAGACGCTGGCTGAGGAGCTCAGAACGCTCTAA
 GGAGGATGATCTCAGACCCTGTGATTTTATGGAGAGGAATTATGAGATGCCAGAGGGGACACATCCAG
 CCTAAGGTATGATTTTCGCTACAGTGGAGTGCAGAGCAGGTGCGGGGGTTTGGAGCTGAGGAAGGGTTG
 ATGCTGGCAGCGGATATCATGCGGGGGGAAGATTTACGCCTGCGGAGGAGTTGGTGCCCCAGGAGGAGC
 TGGGGGCTGCCAAGAAGGTGCCGCTGAGGAAGGGGTGATGGAAGAGGCAGAGCTGGTGTGAGGAGAGC
 CGAGGGCTGGGAGGAGGTGGAAGTGGAGCTGGATGAGGCAACCGCGATGAACGTGGTACATCAGCCCTG
 GAGGCCAGCGGCTTGGGCCCTTACACCTGGACATGAATTATGCTCTCCAGCAGCTGGCCAACTGGCAAG
 ATGCCCATACAGGCGGAGCTGAGGTGGAAGATGCTCCAGAAAGGTGAGTGCCCCACGGGGCCCTCCC
 TGCCGCCAGCCGACAAGCTGCAGATCGTCGTGCCGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220251 representing NM_177977
 Red=Cloning site Green=Tags(s)

MRPKRLGRCCAGSRLGPGDPAALTCAPSPSASPAPEPSAQPQARGTGQRVGSRATSGSQFLSEARTGARP
 ASEAGAKAGARRPSAFSAIQGDVRSMPDNDAPWTRFVFQGPFGSRATGRGTGKAAGIWKTPAAYVGRPP
 GVSGPERAAFIREEALCPNLPPPVKKITQEDVKVMLYLLELLPPVWESVTYGMVLQERDLNTAARI
 GQSLVKQNSVLEENSKLEALLGSAKEEILYLRHQVNLRDELLQLYSDSDEEDEDEEEEEEEKEAEEEQE
 EEEAEEDLQCAHPCDAPKLISQEALLHQHHCPLQLEALQEKRLLEENHQLREEASQLDLEDEEQMLIL
 ECVEQFSEASQQMAELSEVLVLRLENYERQQQEVARLQAQVLLKQQRCRMVGAETELKQLASEKEIQM
 QLQEEETLPGFQETLAEELRTSLRRMISDPVYFMERNYEMPRGDTSSLRYDFRYSEDREQVRGFEAEEGL
 MLAADIMRGEDFTPAAEELVPEELGAAKVPAAEEGVMEEAELVSEETEGWEEVELELDEATRNMNVTSAL
 EASGLGPSHLDMNYVLQQLANWQDAHYRRQLRWKMLQKGECPHGALPAASRTSCRSSCR

TRTRPLE – GFP Tag – V

Restriction Sites:

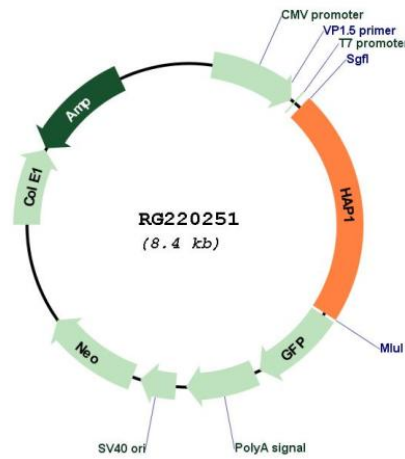
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_177977
 ORF Size: 1857 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_177977.1 , NP_817084.1
RefSeq Size:	3981 bp
RefSeq ORF:	1860 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]