

Product datasheet for **RG217390**

HP1BP3 (NM_016287) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HP1BP3 (NM_016287) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HP1BP3
Synonyms:	HP1-BP74; HP1BP74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG217390 representing NM_016287
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACTGATACGTCTCAAGGTGAACCTCGTCCATCCTAAGGCACTCCCACTTATAGTAGGAGCTCAGC
 TGATCCACGCGGACAAGTTAGGTGAGAAGGTAGAAGATAGCACCATGCCGATTTCGTCGAACCTGTGAATTC
 TACCCGGGAAACTCCTCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGT
 TCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAAACTCCACCTGCTACTTCGAGTGAGGCAG
 AGCAGCCAAAGGGGAACCTGAGAATGAAGAGAAGGAAGAAAATAAGTCTTCTGAGGAAACCAAAAAGGA
 TGAGAAAGATCAGTCTAAAGAAAAGGAGAAGAAAGTGAAGAAAACAATTCCTTCTGGGCTACCTTTCT
 GCCAGCCAGCTAGCCAGGGCCAGAAACAACACCGATGGCTTCTCCCCAGTCCCAAGATGGATGCAA
 TCTTAAGTGAAGCCATTAAGGCATGCTCCAGAAGAGTGGTGCATCAGTGGTTGCTATTCGAAAATACAT
 CATCCATAAGTATCCTTCTGAGCTGGAGAGAAGGGTTATCTCCTTAACAAGCACTGAAAAGAGAA
 TTAATAGAGGAGTCATCAACAGGTTAAAGGAAAAGGTCTTCTGGAAGTTTTGTGTGGTTTCAGAAAT
 CAAGAAAAACACCTCAGAAATCCAGAAACAGAAAGAATAGGAGCTCTGCAGTGGATCCAGAACCAAGT
 AAAATTGGAGGATGTCCTCCCACTGGCCTTTACTCGCCTTTGTGAACCTAAAGAAGCTTCTACAGTCTC
 ATCAGGAAATATGTGTCTCAGTATTATCCTAAGCTTAGAGTGGACATCAGGCCTCAGCTGTTGAAGAACG
 CTCTGCAGAGAGCAGTAGAGAGGGGCCAGTTAGAACAGATAACTGGCAAAGGTGCTTCGGGGACATTCCA
 GCTGAAGAAATCAGGGGAGAAACCCCTGCTTGGTGAAGCCTGATGGAATATGCAATCTTGTCTGCCATT
 GCTGCCATGAATGAGCCGAAGACCTGCTCTACCACTGCTCTGAAGAAGTATGCTCTAGAGAATCACCCAG
 GAACCAATTCTAACTATCAAATGCATTTGCTGAAAAAACCCCTGCAGAAATGCGAAAAGAATGGTGGAT
 GGAACAGATCTCTGGGAAAGGGTTCAGTGGCACCTTCCAGCTCTGTTTTCCCTATTATCCAGCCAGGA
 GTTCTGTTTTCCGAAGAAAGAGCCAGATGATTCTAGAGATGAGGATGAAGATGAAGATGAGTCATCAGAAG
 AAGACTCTGAGGATGAAGAGCCGCCACCTAAGAGAAGGTTGCAGAAGAAAACCCAGCCAAGTCCCAGG
 GAAGGCCGCATCTGTGAAGCAGAGAGGGTCCAACCTGCACCTAAAGTCTCAGCTGCCAGCGGGGAA
 GCTAGGCCCTTGCTAAGAAAGCACCTCCTAAGGCCAAAACGCCTGCCAAGAAGACCAGACCCTCATCCA
 CAGTCATCAAGAAACCTAGTGGTGGCTCCTCAAGAAGCCTGCAACCAGTCAAGAAGGAAGTAAAT
 GCCGGCAAGGGCAAATCCACCATGAAGAAGTCTTTCAGAGTGAAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG217390 representing NM_016287
 Red=Cloning site Green=Tags(s)

MATDTSQGELVHPKALPLIVGAQLIHADKLGEKVEDSTMPIRRVTNSTRETPPKSKLAEGEEEEKPEPDIS
 SEESVSTVEEQENETPPATSSEAEQPKGEPENEEKEENKSSEETKKDEKQSKKEKVKVTIPSWATLS
 ASQLARAQKQTPMASSPRPKMDAILTEAIKACFQKSGASVVAIRKYI IHKYPSLELERRGYLLKQALKRE
 LNRGVIKQVKGKASGSFVVVQKSRKTPQKSRNRKNRSSAVDPEPVKLEDVLPFLAFRLCEPKEASYSL
 IRKYVSQYYPKLRVDIRPQLLNALQRAVERGQLEQITGKASGTFQLKKSgekPLLGGSLMEYAILSAI
 AAMNEPKTCSTTALKKYVLENHPGTNSNYQMHLKKTLLQKCEKNGWMEQISGKFSGTFQLCFPYYPSPG
 VLFPPKKEPDDSRDEDEDESEDESEDEEPPPKRRLQKKTAKSPGKAASVKQRGSKPAPKVSAAQRGK
 ARPLPKKAPPKAKTPAKKTRPSSVVIKKPSGGSSKKPAT SARKEVKLPKGKSTMKKSFRVKK

TRTRPLE - GFP Tag - V

Restriction Sites:

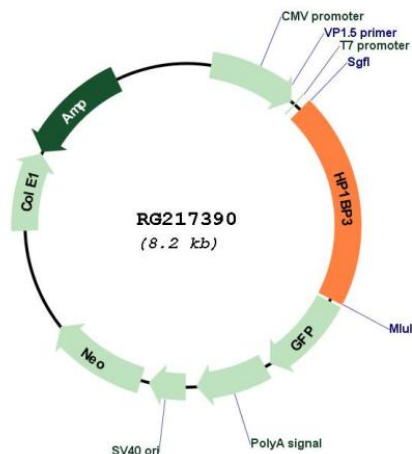
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_016287
ORF Size:	1659 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_016287.5
RefSeq Size:	1855 bp
RefSeq ORF:	1662 bp
Locus ID:	50809
UniProt ID:	Q5SSJ5
Cytogenetics:	1p36.12
Domains:	linker_histone
Gene Summary:	Component of heterochromatin that maintains heterochromatin integrity during G1/S progression and regulates the duration of G1 phase to critically influence cell proliferative capacity (PubMed:24830416). Mediates chromatin condensation during hypoxia, leading to increased tumor cell viability, radio-resistance, chemo-resistance and self-renewal(PubMed:25100860).[UniProtKB/Swiss-Prot Function]