

Product datasheet for **RG223059**

PHF20 (NM_016436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PHF20 (NM_016436) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PHF20
Synonyms:	C20orf104; GLEA2; HCA58; NZF; TDRD20A; TZP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223059 representing NM_016436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAAAGCATCCACCTAACAGACGAGGAATCAGCTTTGAAGTGGGAGCCCAGTTGGAAGCCCGGGACC
GTTTAAAAAACTGGTATCCAGCTCACATAGAAGACATTGACTACGAGGAAGGAAAAGTACTCATCCATTT
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 AGCAGATCGCCCTCTGCTGCTCAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223059 representing NM_016436
 Red=Cloning site Green=Tags(s)

MTKHPPNRRGISFEVGAQLEARDRLKNWYPAHIEDIDYEEGKVL IHFKRWNHRYDEWFCWDSPLYLRPLEK
 IQLRKEGLHEEDGSSEFQINEQVLACWSDCRFYPAKVTAVNKDGTYYVYFDGVVQTVKHIHVKAFAFKDQ
 NIVGNARPKETDHSLS SSPDKREKFEQRKATVNVKDKEDKPLKTEKRPKQPDKEGLICSEKGVSE
 KSLPKNEKEDKENISENDREYSGDAQVDKPKPENDIVKSPQENLREPKRKRGRPPSIAPTAVDSNSQTLQP
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 DTDPLQDTL SSTKESEEGQLKSALEAGQVSSAL TCHSFGDGSAAAGLELNCPMSGENTMKTEPTSPLVEL
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 KRHVQTRGPSASDKPSQETL TRKRVSASSPTTKDKEKNKEKKFKEFVRVKPKKKKKKKKTKPECPCSEE
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 HPDLPLWCQPWKQHSSEGRSHFRNIPVTDTRSKEEAPSYRTLNGAVEKPRPLALPLPRSVESYITSEHC
 YQKPRAYPAVEQKLVVETRGSALDDAVNPLHENGDDSLSPRLGWPLDQDRSKGSDPKPGSPKVEYVS
 KKALPEEAPARKLLDRGGEGLLSSQHQQFNLLTHVESLQDEVTHRMDSIEKELDVLESWLDYTGELPEP
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TRTRPLE - GFP Tag - V

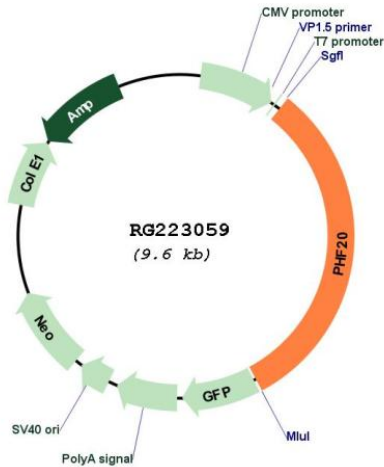
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016436

ORF Size: 3036 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_016436.5
RefSeq Size:	5583 bp
RefSeq ORF:	3039 bp
Locus ID:	51230
UniProt ID:	Q9BVI0
Cytogenetics:	20q11.22-q11.23
Domains:	PHD, TUDOR, zf-C2H2
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	Methyllysine-binding protein, component of the MOF histone acetyltransferase protein complex. Not required for maintaining the global histone H4 'Lys-16' acetylation (H4K16ac) levels or locus specific histone acetylation, but instead works downstream in transcriptional regulation of MOF target genes (By similarity). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. Contributes to methyllysine-dependent p53/TP53 stabilization and up-regulation after DNA damage. [UniProtKB/Swiss-Prot Function]