

Product datasheet for **MG208813**

Phf21a (NM_138755) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phf21a (NM_138755) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Phf21a
Synonyms:	80kDa; Bhc; Bhc80; D030065N23Rik; PFTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208813 representing NM_138755
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTTGCAGACTCTACAGGAGGCTCTTAAAGTGGAAATTCAGGTTACCAGAAAAGCTGGTTGCCAAA
 TGAAGCAGGATCCACAGAATGCTGACTTAAAGAAACAGCTTCATGAACTCCAAGCCAAAATCACAGCTTT
 GAGTGAGAAAACAGAAAAGAGTAGTTGAGCAGCTGCGCAAGAACCTGATAGTCAAACAAGAGCAGCCGGAC
 AAGTTCAGATACAGCCATTGTACAGTCTGAAAACAAACACAAACAGCACAGCAGCAGCCACTACAGC
 CACTGCAGCAGCAACCGCAGCAACCGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC
 AGCAGCAGCACCCCTAGTCTAACTGCATCACAGGTTCAAGCAACACCTCCTCAGCCATCAAAGTACCA
 CAGTTTATCCCTCCTTAGACTCACTCCAGCCAAACTTCTTCCACAGGTCGACCCAAGCCTGTGG
 CCCAGAATAACATTCTATCGTCCAGCGCCTCCTCCATGCTTGACAGTCTCAGCTTATCCAGAGGCC
 TGTGATGTCACCAAGTTTACACCACAACCTCCCCACATCCCAGAATCCATCCACCTGTCCGTGTT
 GTCAATGGACAGACTGCAACCATAGCCAAAACGTTCCCCATGGCCAGCTCACCAGCATTGTCATAGCTA
 CTCCAGGGACAGACTCGCTGGACCTCAGACTGTACAGCTTAGCAAACCAAGCCTGGAGAAAACAGACAGT
 TAAATCCCACCCAGAAGCAGAGGAAAAACAAGCAGAGAGCCGTACCGTTACCCCACTGTGCACAAAA
 CCAAAACGAGAAGAGAACCCTCAGAAACTTGCCTTCATGGTGTCTTAGGGTTGTAACACATGACCATC
 TAGAAGAAATCCAAAGCAAGAGGCAGGAAAAGAGAAGAACAACAGCAAAACCCGGTGTACAGTGGGGC
 TGTCTTTGAGCCAGAGCGTAAGAAGAGTGCAGTCACTTACCTAACAGCAATGCATCCTGGGACGCGG
 AAGAGGCCAATGAGGAACACTGGCCAAAGGCGATATCCATGAGGATTTTGCAGTGTTCAGAAAAA
 GTGCCAGTTGCTGATGTGTGACACGTGTTCCCGTGTATCATCTGGACTGCTTAGAGCCGCCCTGAA
 AACAAATCCCAAGGCATGTGGATCTGTCCAGATGTCAGGACCAGATGCTAAAGAAGGAAGAAGCAATT
 CCTTGGCCTGGAACCTTAGCCATTGTTCTTACATCGCCTACAAAGCAGCAAAAGAAGAGGAGAAAC
 AGAAGCTACTTAAAGTGGAGTTCAGATTTAAACAGGAGCGGGAACAACCTGGAGCAGAAGGTCAAAGAGCT
 CAGCAGTCTATAAGTAAATGTATGGAGATGAAGAGCAGCATCCTGGCGCGCAGAAGGAGATGCGCAGC
 TCCCTGGACAAGGTGAAGCGCTCATCCGCTTGTGCATGGCGTGCACCTCTGCAGACCTGTGGACTCAG
 AGGCCACGGCGGGGCCCTCTCAATGGCCAGACTGCACTCCCCCTGCCAACGCCGCTCCACACCCGC
 CCCTTCCCCCTCTCGCAGAGCTGCACAGCGAACTGTAACCAGGGGAAGAGACTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208813 representing NM_138755
 Red=Cloning site Green=Tags(s)

MELQTLQEALKVEIQVHQKLV AQMKQDPQNADLKKQLHELQAKITALSEKQKRVVEQLRKNLIVKQEQPD
 KFQIQPLSQSENKLQTAQQQPLQPLQQQQPQQPQQQQQQQHAQQSAAAPPSLTASQVQATPPQPIKVP
 QFI PPPRLTPRPNFLPQVRPKVAQNNIPIAPAPPMLAAPQLIQRPVMLTKFTPTLPTSQNSIHPVRV
 VNGQTATIAKTFPMAQLTSIVIATPGTRLAGPQTVQLSKPSLEKQTVKSHPEAEEKQAESRTVTPPAAPK
 PKREENPQKLAFMVSLGLVTHDLEEIQSKRQERKRRRTANPVYSGAVFEPERKKS AVTYLNSTMHPGTR
 KRANEHWPKGD IHEDFCSVCRKSGQLLMCDTCSRYYHLDCLPEPLKTI PKGMWICPRCQDQMLKKEEAI
 PWPGLTIVHSYIAYKAAKEEEKQLLKWSSDLKQEREQLEQVKVELSSSI SKCMEMKSSILARQKEMRS
 SLDKVKRILRVHGVDL CRPVDSEATAGALSNGPDCTPPANAASTPAPSPSSQSTANCNQGEETK

TRTRPLE - GFP Tag - V

Restriction Sites:

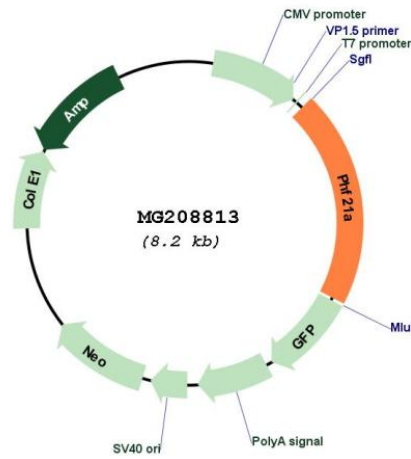
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_138755
ORF Size:	1668 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_138755.1 , NP_620094.1
RefSeq Size:	2446 bp
RefSeq ORF:	1671 bp
Locus ID:	192285
UniProt ID:	Q6ZPK0
Cytogenetics:	2 E1
Gene Summary:	Component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it may act as a scaffold. Inhibits KDM1A-mediated demethylation of 'Lys-4' of histone H3 in vitro, suggesting a role in demethylation regulation (By similarity).[UniProtKB/Swiss-Prot Function]