

## Product datasheet for MR204847

### Phf23 (BC033533) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phf23 (BC033533) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phf23
Synonyms:	JUNE-1, RP23-172M21.13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204847 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGCCAGTCCCGAAGATCCGCCTCCGACTCTTAAACCAGAGACTCAGCCACCGGAGAAAAGGC  
GGAGAACCATTGAGGATTTAAACAAATCTGCAGTTTTGTCTTGGCCTATGCTGGTTACATCCCCCTAG  
CAAAGAGGCTCCTGACAGTGCTACTCTGCTTGAGAAGATGAAGCTCAAGGACTCTTTTTGATCTGGAT  
GGGCCAAAGTGGCATCTCCACTCTCTCCACATCATTGACGCATACCTCCGGCCCCCGCTGCTCTCG  
CCCCAGTCCCGTGTCCAGGGGACCTCTCCAGCCTCGAAAGAAGACCGAAAGAATAGAAAGTTGGG  
ACCAGGAGGTGGGGCTGGCTTTGGGGTGCCTCGGAGACCTCGACCAGCTCCTGGGGATGGGGAAAAGCGG  
TCTCGAATCAAGAAGAGCAAGAAGCGGAAGTTGAAAAAGGCAGATCGGGGAGATAGACTCCCACCTCCTG  
GCCCTCTAGGGCTCCTCCAGTGATACAGACTCTGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGATGA  
TGAGGAAGAGATGACAGTGGGGGTGGAGTCCCAGCCCCGTGTGCTCCCAACCCCCCTGAGGCCCCAGG  
CCCCCTGTTACAGTGCCTCTGAAGGTGCTCCCCCTACTGACAGTGAAGGCAAAGATGTGGGCAGCACAG  
AAACAAGCCAAGATGGAGATGCTAGCTCCAGTGAAGGCGAGATGCGGGTCATGGATGAGGACATCATGTT  
AGAATCAGGTGACGACTCCTGGGATCTGATCACGTGTTACTGCAGAAAGCCCTTTGCGGGCGGCCCATG  
ATTGAGTGCAGCCTCTGTGGGACGTGGATCCACCTCCTGTGCTAAGATTAAGAAGACCAACGTTCCCG  
ACTTCTTTTATTGCCAGAAATGCAAGGAACTTCGGCCAGAGGCCCGCGGTTAGGGGGTCTCCCCAAATC  
TGGAGAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204847 protein sequence  
Red=Cloning site Green=Tags(s)

MAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCFVLYAGYIPPSKEAPDSATLLEKMKLKDSLFDLD  
 GPKVASPLSPTSLTHTSRPPAALAPVPLSQGDL SQPRKKDRKNRKLGPGGGAGFVGLRRPRPAPGDGEKR  
 SRIKKSKKRKLKADRGDRLPPPGPPRAPPDSEEEEEEEEEEDDEEMTVGGGVPAPVLPPTPEAPR  
 PPVTVHSEGAPPTDSEGKDVGSTETSQDGDASSSEGEVMRVMDEDIMVESGDDSDWDLITCYCRKPFAGRPM  
 IECSLCGTWIHLSCAIKIKTNVPDFFYCQKCKELRPEARRLGGLPKSGEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC033533

**ORF Size:** 990 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:**

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:** [BC033533](#), [AAH33533](#)

**RefSeq Size:** 1728 bp

**RefSeq ORF:** 992 bp

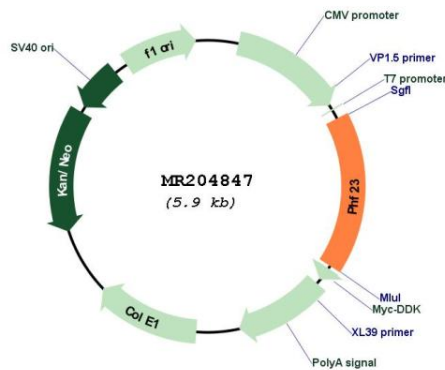
**Locus ID:** 78246

**Cytogenetics:** 11

**MW:** 36 kDa

**Gene Summary:** Acts as a negative regulator of autophagy, through promoting ubiquitination and degradation of LRSAM1, an E3 ubiquitin ligase that promotes autophagy in response to starvation or infecting bacteria.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204847