

## Product datasheet for **MG224822**

### Phf23 (NM\_030064) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Phf23 (NM\_030064) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Phf23  
 Synonyms: JUNE-1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG224822 representing NM\_030064  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGGAAGCCATGGCGGAGCCAGTCCCGAAGATCCGCTCCGACTCTTAAACCAGAGACTCAGCCAC  
 CGGAGAAAAGGCGGAGAACCATTGAGGATTTTAACAAATCTGCAGTTTTGTCTTGGCCTATGCTGGTTA  
 CATCCCCCTAGCAAAGAGGAAAGCGATTGGCCAGCCTCTGGCTCTAGCTCTCCATTGCGAGGTGAGAGT  
 GCAGCAGACAGTGATGGCTGGGACTCGGCCCGTCGGACCTTCGAACTATCCAGACTTTTGTAAAGAAAG  
 CAAAGTCATCAAAGAGAAGGGCAGTTCAATCAGGTCTACCCAGCCAGGACCCCAAGGTCCACTTTTTTC  
 TCGTCTGCAGGCTCCTGACAGTGTACTCTGCTTGAGAAGATGAAGCTCAAGGACTCTCTTTTTGATCTG  
 GATGGGCCCAAAGTGGCATCTCCACTCTCTCCACATCATTGACGCATACTTCCCGGCCCCCGCTGCTC  
 TCGCCCCAGTGCCGCTGTCCCAGGGGACCTCTCCAGCCTCGAAAGAAGGACCGAAAGAATAGAAAAGTT  
 GGGACCAGGAGGTGGGGCTGGCTTTGGGGTGTCTCGGAGACCTCGACCAGCTCCTGGGGATGGGGAAAAG  
 CGGTCTCGAATCAAGAAGAGCAAGAAGCGGAAGTTGAAAAGGCAGATCGGGGAGATAGACTCCCACCTC  
 CTGGCCCTCCTAGGGCTCCTCCAGTGATACAGACTCTGAAGAGGAGGAGGAAGAGGAAGAAGAGGAAGA  
 TGATGAGGAAGAGATGACAGTGGGGGTGGAGTCCCAGCCCTGTGCTCCCAACACCCCTGAGGCCCC  
 AGGCCCCCTGTTACAGTGCACCTGAAGGTGCTCCCCCTACTGACAGTGAAGGCAAGATGTGGGCAGCA  
 CAGAAACAAGCCAAGATGGAGATGCTAGCTCCAGTGAAGGCGAGATGCGGGTCATGGATGAGGACATCAT  
 GGTAGAATCAGGTGACGACTCCTGGGATCTGATCACGTGTTACTGCAGAAAGCCCTTTGCGGGGCGGCC  
 ATGATTGAGTGCAGCCTCTGTGGACGTGGATCCACCTCTCCTGTGCTAAGATTAAGAAGACCAACGTTC  
 CCGACTCTTTTATTGCCAGAAATGCAAGGAACCTCGGCCAGAGGCCGCGGTTAGGGGTCTCCCAA  
 ATCTGGAGAACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224822 representing NM\_030064  
 Red=Cloning site Green=Tags(s)

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCFVLAYAGYIPPSKEESDWPASGSSSPLRGES  
 AADSDGWDSAPSDLRTIQTFVKKAKSSKRRAVQSGPTQPGPPRSTFSRLQAPDSATLLEKMKLKDSLFDL  
 DGPKVASPLSPTSLTHTSRPPAALAPVPLSQGDL SQPRKKDRKNRKLGPGGGAGFVLRPRPAPGDGEK  
 RSRIKKSKKRKLLKADRGDRLPPPGPPRAPPSDTDEEEEEEEEEDEEEMTVGGGVPAPVLPPTPEAP  
 RPPVTVHSEGAPPTDSEGKDVGSTETSQDGDASSSEGEMRVMEDEIMVESGDDSWDLITCYCRKPFAGRP  
 MIECSLCGTWIHLSCAKIKKTNVPDFFYCQKCKELRPEARRLGGLPKSGEP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030064

**ORF Size:** 1203 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:** [NM\\_030064.4](#), [NP\\_084340.2](#)

**RefSeq Size:** 2014 bp

**RefSeq ORF:** 1206 bp

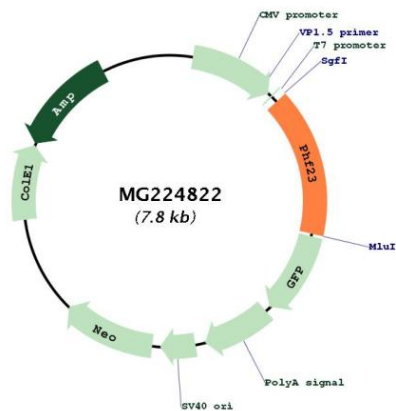
**Locus ID:** 78246

**UniProt ID:** [Q8BSN5](#)

**Cytogenetics:** 11

**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 MG224822