

Table S1. Primers used in this work.

Names	Sequences	Amplicons and lengths
HPH52	5'-AGCTGCGCCGATGGTTTCTACAA-3'	HPH gene fragment, 585 bp
HPH34	5'-GCGCGTCTGCTGCTCCATACAA-3'	
MPG11	5'-TCACGACTGGGAGTAGAAAGA-3'	Fragment of MPG1 gene promoter, 976 bp
MPG12	5'-CCAGATTCCAGGGTTGCTAAA-3'	
GFP-CHK1	5'-GCCACCTACGGCAAGCTGACCCTG-3'	GFP gene fragment, 502 bp
GFP-CHK2	5'-GGGTGCTCAGGTAGTGGTTGTCCG-3'	
RED1	5'-GATGGTGTAGTCCTCGTTGTG-3'	DsRed gene fragment, 368 bp
RED2	5'-GACTACTTGAAGCTGTCCCTCC-3'	
RED3	5'-CCGGGGTGAGCAAGGGCGAGG-3'	mCherry gene fragment, 698 bp
RED4	5'-TCTAGAGCCGCCGGTGGAGTG-3'	
NEO1	5'-CGGGTAGCCAACGCTATGTCC-3'	NEO gene fragment, 772 bp
NEO2	5'-GGACGACCCGGTCATACCTTC-3'	
H3-1	5'-AGTCATGTTGATTGAGGTGT-3'	Fragment of H3 gene promoter, 1493 bp
H3-2	5'GGCCATTGTGATTGATTTGTG-3'	
PNMcherryA1	5'TCGGCGCGTTCGTACTGTTCC-3'	PNMcherryA gene fragment, 668bp
PNMcherryA2	5'ATGGTGAGCAAGGGCGAGGAG-3'	

Table S2. PCR amplification information

Names	Reaction procedure
HPH52	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 60°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
HPH34	
MPG11	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 56°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
MPG12	
GFP-CHK1	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 60°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
GFP-CHK2	
RED1	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 56°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
RED2	
RED3	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 61°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
RED4	
NEO1	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 58°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
NEO2	
H3-1	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 53°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
H3-2	
PNMcherryA1	95°C-Pre-denaturation 3 min, 95°C-Denaturation 15s, 58°C-Annealing 15s, 72°C-Extend 90s-30 cycles, 72 °C extended 5 min, 4°C-for preservation.
PNMcherryA2	